

7TH REPORT OF THE
TREES AND FORESTS ADVISORY COMMITTEE

Meeting held on June 28, 2017, commencing at 12:22 PM, in Committee Room #4, Second Floor, London City Hall.

PRESENT: R. Mannella (Chair), A. Cantell, T. Khan, C. Linton, N. St. Amour and R. Walker and J. Martin (Secretary).

ABSENT: C. Haindle, J. Kogelheide and G. Mitchell.

ALSO PRESENT: U. DeCandido, B. Nourse, J. Ramsay, J. Spence and B. Williamson.

I. CALL TO ORDER

1. Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

II. SCHEDULED ITEMS

2. Construction Concerns Surrounding Mature Trees

That the following actions be taken with respect to concerns of the Trees and Forests Advisory Committee related to construction projects and mature trees:

- a) as part of "Protecting More", the Civic Administration BE REQUESTED to begin monitoring and reporting, on an annual basis, the number of trees damaged or removed as a result of construction processes as well as any fines issued, and that those metrics be included in the semi-annual Urban Forest Strategy progress report;
- b) as part of "Planting More", the Civic Administration BE REQUESTED to begin monitoring and reporting on an annual basis, how many trees have been removed from roadways and replaced with a species of a different mature size class so as to be able to determine the net impacts on city canopy cover; and,
- c) the Civic Administration BE REQUESTED to make contractors subject to the same assessment for appraising tree values as residents;

it being noted that the Trees and Forests Advisory Committee received the attached presentation from B. Nourse, Environmental Services Engineer with respect to this matter.

III. CONSENT ITEMS

3. 6th Report of the Trees and Forest Advisory Committee

That it BE NOTED that the 6th Report of the Trees and Forests Advisory Committee, from its meeting held on May 25, 2017, was received.

4. Municipal Council Resolution - 6th Report of the Trees and Forests Advisory Committee

That it BE NOTED that the Municipal Council resolution adopted at its meeting held on June 13, 2017, with respect to the 6th Report of the Trees and Forests Advisory Committee, was received.

IV. SUB-COMMITTEES & WORKING GROUPS

5. Allergens, Climate Change & Invasives Working Group

That it BE NOTED that no update was received.

6. Dingman Creek Objectives

That it BE NOTED that a verbal update from C. Linton with respect to the Dingman Creek Objectives was received; it being noted that a preferred alternative with respect to the Dingman Creek will be presented in the fall of 2017.

V. ITEMS FOR DISCUSSION

7. Draft Tree Planting Strategy

That the Civic Administration BE REQUESTED to consider the attached comments for inclusion in the Draft Tree Planting Strategy.

8. Community Energy Action Plan

That the Civic Administration BE ADVISED that the Trees and Forests Advisory Committee strongly supports any actions taken to reduce greenhouse gas emissions, based on the known impacts of climate change on trees and forests.

9. Complete Streets Design Manual Update

That the Civic Administration BE REQUESTED to provide a presentation to the Trees and Forests Advisory Committee with respect to the draft City of London Complete Streets Design Manual; it being noted that a verbal update from C. Linton with respect to this matter, was received.

10. Tree Planting Under Hydro Lines

That it BE NOTED that discussion with respect to tree planting under hydro lines was deferred to a future meeting of the Trees and Forest Advisory Committee.

VI. DEFERRED MATTERS/ADDITIONAL BUSINESS

11. 2016 Trees and Forests Advisory Committee Work Plan Summary

That the attached 2016 Trees and Forests Advisory Committee Work Plan Summary and presentation BE FORWARDED to the Municipal Council for their information.

12. Plastic Sleeves on Trees

That it BE NOTED that discussion with respect to plastic sleeves on trees was deferred to a future meeting of the Trees and Forests Advisory Committee.

13. (ADDED) TFAC Resignation

That it BE NOTED that the Trees and Forests Advisory Committee received a verbal resignation from A. Cantel.

14. (ADDED) Summer Meeting Schedule

That it BE NOTED that the Trees and Forests Advisory Committee set July 26, 2017 and August 30, 2017 as their summer meeting dates.

VII. ADJOURNMENT

The meeting adjourned at 1:55 PM.


NEXT MEETING DATE: July 26, 2017



Trees and Infrastructure Projects in the Trevithen Area




June 28, 2017 | Committee Room #4 | 12:20pm



Agenda

- TFAC request
- Overview of tree policies on capital projects
- Overview of the Trevithen/ Wellington area infrastructure strategy
- 2016 Bond, Raywood, Alexandra, Lincoln Infrastructure Project

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TFAC Request

2. Construction Concerns Surrounding Mature Trees

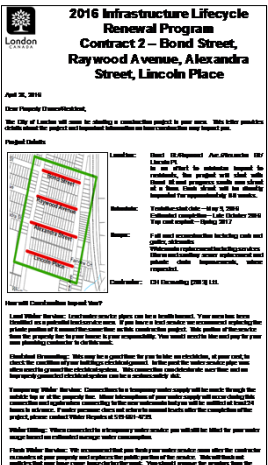
That the Civic Administration BE REQUESTED to review and report back with respect to construction concerns surrounding mature trees and proposed actions to manage and reduce construction concerns; it being noted that the Trees and Forests Advisory Committee received a verbal presentation and a communication dated April 24, 2017 from C. Morningstar with respect to this matter.







Capital Project – Trees and Public Engagement

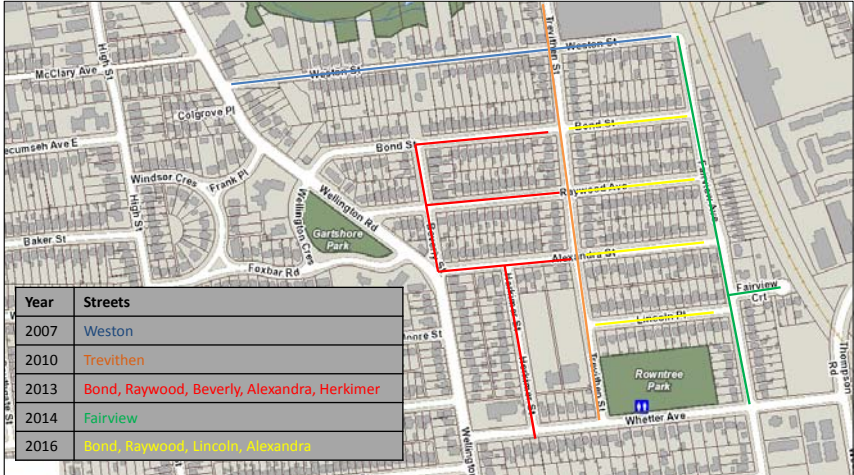
- Letter #1 – Project Introduction
- Tree Assessment Report
- Letter #2 – Additional Information and PIC Notice
- Public Information Centre
- Letter #3 – Construction Notice
- Public Access to Tree Assessment Report
- Tree walk-through
- Marking of trees on site
- Continual monitoring during construction
- Re-planting








Map of Trevithen Area Reconstruction



Year	Streets
2007	Weston
2010	Trevithen
2013	Bond, Raywood, Beverly, Alexandra, Herkimer
2014	Fairview
2016	Bond, Raywood, Lincoln, Alexandra

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Reason for Trevithen Area Work

- 100+ year old sewers reaching their design life
- Combined sewer (storm water and sewage)
- During rain events combined sewage overflows to the Thames River
- Significant basement, street, and private property flooding
- Additional servicing capacity for future developments of the LHSC hospital lands





An aerial view of Greenway pollution plant, with the Thames River at left. London's waste water treatment plants dumped 59,473 cubic metres of raw sewage into the river during the first three months of 2016. (MIKE HENGEN, The London Free Press)

Rainfall fuels raw sewage dumpings into Thames

By Norman De Bono, The London Free Press
Sunday, April 10, 2016 7:52:48 EDT PM

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Trevithen Stormwater Outfall



7




2016 Reconstruction Project Bond, Raywood, Lincoln, Alexandra

- Construction Started: Spring 2016
- 2017 work:
 - Deficiencies
 - Top coat of asphalt



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Tree Assessment Report

TREE INVENTORY & ASSESSMENT CHART T.1
Bond St., Raywood Ave., Alexandra St. & Lincoln Pl. - Contract 2, London, ON

TREE ASSESSMENT CODES

TREE HEALTH

H1 Foliage normal colour
 H2 Foliage chlorotic (pale colour)
 H3 Foliage necrotic (dying / dead)
 H4 Foliage percent live crown _____ %
 H5 Major pests / disease present
 H6 Growth obstructions (i.e. girdling vines, cables)

CROWN / TRUNK DEFECTS

C1 Codominant trunks / limbs
 C2 Included bark in forks
 C3 Multiple branch attachments (originating from one point on trunk)
 C4 Cracks / splits in trunk(s) / major limb(s) potential to fail
 C5 Major trunk wounds
 C6 Moderate trunk wounds
 C7 Major scaffold branch defects
 C8 Moderate scaffold branch defects
 C9 Major decay
 C10 Moderate decay
 C11 Extensive cavity
 C12 Moderate cavity
 C13 Bark loose / missing

ROOTS

R1 Exposed roots
 R2 Severed roots
 R3 Major girdling roots
 R4 Root rot suspected
 R5 Buttress area wounded / diseased / decayed


ECO SETTING

Og Open ground
 Hr Hedgerow
 Fe Forest edge
 Fi Forest interior

ID No.	MUN. No.	SPECIES	HT (M)	DBH (MM)	CAN (M)	HEALTH	CROWN / TRUNK DEFECTS	SIG.	PROTECTION	COMMENTS & RECOMMENDATIONS	
1	54	Trewthen St.	Norway Maple	14	682	14.5	H1, H4 85%	C1, C2, C3, C7	S3	P2, P7	Directional bore water service and hydro vac curb stop
2	54	Trewthen St.	Silver Maple	18.5	688	16	H2, H4 85%	C1, C5	S3		Tree protected by ex. private hedge hydro vac PDC
3	116	Bond St.	Silver Maple	24.0	1030	19.4	H1, H4 90%	C1	S3	P2	Directional bore water service and hydro vac curb stop & PDC
4	118	Bond St.	Norway Maple	17.8	745	13.3	H1, H4 80%	C1, C2, C3, C4	S3	P2	Directional bore water service and hydro vac curb stop
5	122	Bond St.	Norway Maple	17	540	12.1	H1, H4 95%	C1, C2, C4	S3	P2	Directional bore water service and hydro vac curb stop & PDC
6	124	Bond St.	Sugar Maple	17.5	667	15.2	H1, H2, H3, H4 95%	C2, C5	S3	P2	Directional bore water service and hydro vac curb stop & PDC
7	126	Bond St.	Blue Spruce	13	268	36	H1, H4 95%		S3	P2	Directional bore water service and hydro vac curb stop
8	132	Bond St.	Norway Maple	11.75	619	10.6	H2, H4 65%	C1, C2, C5	S3	P2	Directional bore water service and hydro vac curb stop
9	134	Bond St.	Sugar Maple	13	281	7	H1	C1, C2, C8	S3	P2	Directional bore water service and hydro vac curb stop
10	134	Bond St.	Shademaster Locust	16.5	450	12.1	H1	C1	S3	P2	Directional bore water service and hydro vac curb stop
11	133	Bond St.	Norway Maple	20.5	925	19.7	H1	C1, C3	S1	P2	Directional bore water service and hydro vac curb stop
12	131	Bond St.	White Birch	380	7.3			S3	P1		Private Tree
13	139	Bond St.	White Birch	15.5	657	13	H1, H4 95%	C1, C2, C3	S1	P2	
14	125	Bond St.	Cherry	4.5	81	3	H1, H4 90%	C1, C3	S3	P2	

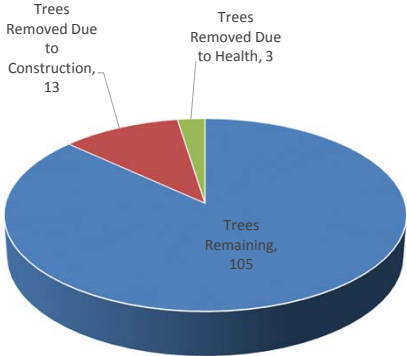



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Tree Assessment Report

- Total of 105 trees were reviewed
- 16 trees identified to be removed
 - 13 due to construction interferences
 - 3 due to health or existing conditions
- 47 directional bores

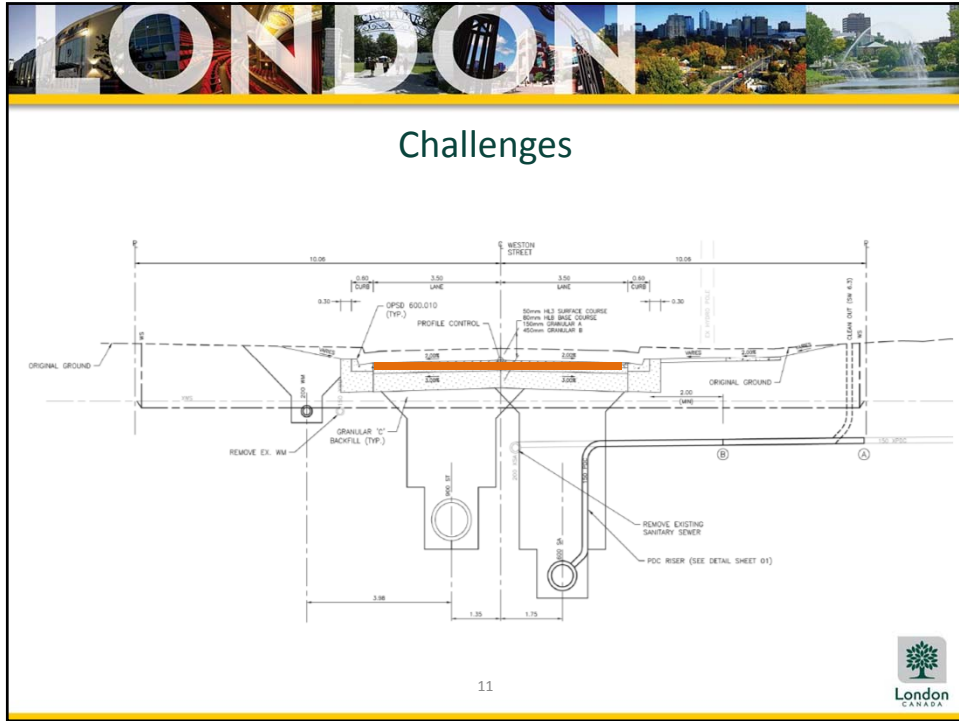





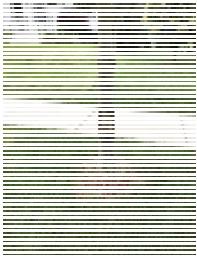

Directional Drilling tunnels slowly under obstacles
Cross Match View



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Penalties

 <p>\$800</p>	 <p>\$800</p>	 <p>\$800</p>
122 Raywood	103 Alexandra	120 Alexandra



Bond St. Looking East



Before



After

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TREES & FORESTS ADVISORY COMMITTEE

DRAFT TREE PLANTING STRATEGY – WORKING GROUP COMMENTS & RECOMMENDATIONS

Working Group: Amber Cantell, Craig Linton, Roberto Manella

Original Date: May 23, 2017

Updated: May 25, 2017

TFAC is broadly supportive of the draft Tree Planting Strategy, and happy to see progress being made on this essential plank of the overall Urban Forest Strategy. Having reviewed the draft strategy, we believe it would benefit from:

- A clear sense of what size and species of trees are being considered: TFAC has consistently advocated for the use of smaller potted stock over more expensive caliper stock, but stock size is not discussed in the draft strategy.
- A clear sense of what “planting styles” (naturalization vs. standalone shade trees) are being considered, and a link being made to the need for woodland targets identified in the Urban Forest Strategy (i.e., you get a very different urban forest if you focus on creating new woodlands vs. well-treed streetscapes)
- A strong mandate to integrate climate change adaptation into all planting efforts, which, in order to ensure the survival of trees planted under this strategy, should begin immediately
- A reporting mechanism, which should be clearly outlined within the Tree Planting Strategy itself, rather than in an accompanying staff report
- A means to evaluate relative benefits of different planting projects and associated spending (ideally, a system should be in place to assess “bang for the buck” in terms of canopy cover impact)
- A discussion of how the plan (and especially targets) might need to be revisited in light of (at this point, probable) disasters, such as the potential expansion of Asian Longhorn Beetle into our area (or if these are already considered in the targets)
- More discussion on how mortality will be assessed and monitored over time, and how planting numbers may need to be revised as a result. In particular, we would recommend that any trees the City pays to cut down have their age recorded so as to enable staff to assess how survival has changed over time (and, as a result, the impact of “plant better” activities such as adding compost or watering). Furthermore, it should be explicitly recognized that if canopy cover does improve, it could be because of increased planting *or* less cutting. In order to determine what is the case (and what sort of actions would have the greatest canopy cover benefit), the City should aim to collect good data on cutting of individual trees and large-scale clearing of land.

Without this data, we won't understand the underlying drivers of canopy and what the best strategies will be for increasing canopy cover.

- Baseline data (possibly in the form of an appendix) showing how many trees are currently being planted in London, and where (in terms of land use) they are most often being planted. ReForest London currently maintains this dataset (thanks to the Million Tree Challenge) and is readily available to the City should it wish to use it.
- Definitions section to expand upon what is meant by “shade tree” and other terms as needed

The strategy should also make it clear that it only applies to lands within the Urban Growth Boundary (if that is to be the case), which limits the amount of plantings on agricultural land that could count towards it.

With regards to the document as written, we recommend the following revisions for the existing content:

Cover: Should make it clear that this is the 5-year strategy, not the full 20-year strategy.

Inside Cover: City has added some explanatory text. Expecting to do annual reporting (but not stated explicitly)

Page 1 – Why Plant More: Use estimated number of trees lost rather than percentages. (1% doesn't sound like much).

(Now done; lost 236 hectares and extrapolated from there)

Page 2 – Benefits of an Urban Forest: Should explicitly mention mitigating climate change (not just “assists in carbon trading”).

(Climate change is still not in there: was a long discussion among staff)

Page 3 – Context: No comments.

Page 4 – Explaining Canopy Cover: This section should:

- Include a sentence to define what canopy cover is, rather than just depending on pictures.
- *(Added, but language may be over-technical? “The birds-eye view looking down” used during presentation – might be better)*
- State that it deals with width/area, not height (picture seems to deal with height; showing shaded area in the air beneath leaves, rather than just on the ground, might help).
- State that not all species of trees produce the same canopy, and that trees grown in forests may not (individually) produce as much canopy as trees grown in open spaces

Page 5 – Exponential Growth:

- This page could likely be removed: it doesn't seem to make any particular point that is not made elsewhere in the document. (If kept, the takeaway message should be made clearer).

(Graph changed out with two others; but now it looks (at a glance) like “mortality goes down” for bottom graph. Sara noted “we are assuming average lifespan of a tree = 50 years” is what they are assuming, though not explicitly stated)

Page 6 – Goal:

- The conclusion regarding 2.44 million trees being the number needed requires a lot more explanation. Are these mature trees? Seedlings? How many planted in a spaced out fashion, vs. how many in naturalizations? What species is being used, as size of tree at maturity affects how much cover it could potentially produce? Does this factor in mortality?

(Changed to include “medium shade trees”)

- Ideally, it would also provide information on a few different ways the canopy cover target could be hit, and why this particular “2.44 million” option has been selected. (For example: maybe the target could be 1 million more expensive caliper trees OR 2 million potted trees, etc.)

Page 7: No comments.

Page 8 – City Targets: It would be worth noting how much of the land within the UGB is City-owned, for context (i.e., how does that compare to the 11% public vs. 89% private planting targets?)

(Not done)

Page 9 – City Planting:

- The argument being made here – that “Trees planted from 2028 – 2040 have the best rate of return to meet the tree canopy target in 2065” – delays planting now so as to minimize cost and maximize benefits for residents in 2065. We would suggest there is no reason to prioritize London’s 2065 residents over our current ones (or those in 2025, 2035, etc.) and so a planting approach that provides a steady rate of planting over time is likely preferable and will generate benefits for residents sooner (rather than optimizing them for those residents in 2065).

(This reference now removed, but now no obvious justification for the size/placement of the graphs; staff noted that the main reason for the smaller bars upfront is to account for scale up – TFAC members seemed to agree that just identifying that these are as they are for scale-up purposes would likely help. Later bars are shorter to provide more funding for maintenance, but the graph as it stands unfortunately does not make that clear)

- To justify the proposed budget and provide greater clarity as to the plan, this page needs to explain size of trees (i.e., potted, caliper, bareroot, etc.), the cost per tree planted on City land, how they will be planted (staff, contractor, volunteer), and what species.

- We would again stress that when it comes to a planting strategy, the ability to compare options is vital.

Page 10 – Private Tree Incentives:

- Although page 8 indicates that 89% of the new plantings needed will occur on private land, this page shows that only 8% of the tree planting budget in the last cycle was put towards private projects. If, ultimately, so much depends on the success of planting on private land, and if private land trees contribute to the overall public good (we would argue they do), it would make sense to proportion out the budget along these lines. (I.e., that more of the proposed funding should be allocated towards planting on private land).

However, it's probably also fair to say trees on public land provide greater overall amenity to residents than those on private land (e.g., they provide not only cleaner air and water, but also shade to park users, etc.), and so we would recommend some factor being adopted to help reflect the added benefits public trees offer (at the moment, with 8% of the budget for private trees on 89% of the land, public trees are being valued at 11x that of private trees within the urban forest). Since it is easier to plant potted stock on public land, and since the public then assumes any subsequent maintenance cost, planting on private land is also much cheaper for the City over the long run.

This page should also provide information on how many trees were planted as a result of the City's \$130,000 in this period to help provide a point of comparison with the public land data on page 9.

(None of this incorporated as of yet; \$800,000/year assumes worst case scenario where we'd have to grow and give away ~44,000 trees)

Page 11 – Key Strategies: No comments.

Page 12 – Actions:

- Reference be made back to any individual Urban Forest Strategy tasklist (UFS, p. 25 – 40) items these actions are meant to address.

(Not done)

- With regards to reducing tree mortality in year 1 – TFAC has previously recommended the adoption of a watering strategy for newly planted City-owned trees. We would like to see it explicitly included in this section if possible.

(Done)

- “Plant more conifers”: should specify climate-appropriate, as some genera (such as spruce) are on their way out of our area

(Done)

(Sara notes that 17% trees dead within first 3 years estimate is based off all available research, which was provided to working group at meeting, including 10% in year one)

Page 13 – Actions (continued):

- The first section here is called “Plant More – Through Community Partners”, but as it stands, despite the title, this section does not really discuss how the City will, as an organization, collaborate with large planting organizations to achieve the goals set out in the TPS. Ultimately, the bulk of trees being planted within the UGB will likely be planted through programs delivered by a small handful of organizations, and so how they can be fully engaged should be fundamental to the TPS.

(Done)

- Similarly, there is little in here about working with volunteers or schools, two areas that may be of interest.

(Not done)

- The Million Tree Challenge, and how it will fit in with the overall strategy, could also be referenced.

(Not done)

- Since it is likely to be a focus of the next 5-year period, we would like to see mention in here of plans to investigate large-scale, collaborative propagation programs with schools and/or volunteers in the spirit of Wellington County’s Green Legacy programme. (Current phrasing of “contract growing” would seem to exclude the Wellington model).
- If the TPS envisions a greater amount of collaboration with planting partners, we would recommend that the City seek to fill the (currently vacant) Community Projects Coordinator position to help facilitate that work.

(Not done)

- Under the “Plant Better” section, we would again like to see a plan for regularly watering newly planted trees (and especially the more costly caliper trees) mentioned explicitly

(Now dealt with on page 12)

- Planting the largest-growing and longest-lived species for a location should be effective immediately, not 2020 onwards, and should speak about native species and invasives. (We understand from discussions with staff that the “2020” date was set to accommodate existing planting contracts which may include smaller trees, however, we believe there is no reason a broad policy could be enacted now so as to be used if any additional opportunities for planting arise prior to 2020, with the understanding that any existing contracts would simply be “grandfathered in”).

(Done: moved up to 2017 onwards)

- With regards to the statement about “avoiding invasives”, TFAC has previously recommended a “Non-Invasive Plants First” policy, wherein an invasive would only ever be considered if a non-invasive species had failed first in a given planting location. We would recommend revising this statement to explicitly reference such a policy.

**Trees and Forests Advisory Committee
Advisory Committee Work Plan – 2016**

Meeting schedule: In order to keep momentum, TFAC will aim to meet at least once over summer, and ensure that we can meet quorum for a summer (July or August) meeting in June. We will meet early in December to avoid conflict with the holidays.

Project/Initiative	Background	Lead/Responsibility	Proposed Timeline	Proposed Budget	Link to Strategic Plan
Urban Forest Strategy	<ul style="list-style-type: none"> • The Urban Forest Strategy is a multi-million dollar 20 year strategy to help ensure the growth and health of one of the Forest City’s most important features. Providing advice on the formation and implementation of London’s Urban Forest Strategy is at the core of TFAC’s mandate. • Monitor progress on the Urban Forest Strategy and make recommendations concerning its ongoing implementation • Ensure PEC is being kept informed of progress on the UFS • Provide feedback on “No Net Loss” policy • Provide feedback on “Right Tree Right Place” • Provide feedback on tree retention policy <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> • Provided recommendations concerning preferred content for Urban Forest Strategy updates: a semi-annual reporting process was recommended for adoption • Participated in some discussions around the Tree Protection Bylaw (mostly post-adoption) and how it may affect workload among Forestry Staff and how its overall efficacy vs. cost might be monitored 	Amber & Roberto	Ongoing	\$0	<p>Robust Infrastructure 1A: Address and manage the infrastructure gap to maintain what we have now and reduce the tax burden on future generations.</p> <p>Strong and Healthy Environment 3C: Plant more trees and better protect them from deforestation, invasive species, and other threats.</p> <p>Strong and Healthy Environment 3E: Work together to protect all aspects of our natural environment including woodlands, wetlands, river and watercourses, and air quality as our city grows.</p>

Planting Strategy	<ul style="list-style-type: none"> Assist City staff in the development of a Planting Strategy for London (as a part of the UFS) Investigate ways the City could support tree planting on private land <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> Participated in discussions around the TPS and its proposed contents and made specific recommendations concerning what we would like to see it include in the form of a proposed table of contents 	TBD	April – December	\$0	Strong and Healthy Environment 3C

Project/Initiative	Background	Lead/Responsibility	Proposed Timeline	Proposed Budget	Link to Strategic Plan
City Tree Protection Bylaw	<ul style="list-style-type: none"> Explore the potential to reduce the number of calls from residents asking to plant trees themselves in roadways by planting more quickly in new developments Make recommendations on how to make planting easier for residents (as per council direction to staff in 2015) <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> Made a recommendation that the City aim to reduce the number of requests it receives from people wanting to plant trees in their own boulevard by accelerating planting of street trees in subdivisions by adopting a “phased” planting schedule, wherein some trees could be planted in parts of a new subdivision prior to assumption. While this recommendation has received a lot of support from our 	Craig	January - June	\$0	Robust Infrastructure 1A Strong and Healthy Environment 3C

	committee and the development community, it has yet (to our understanding) been implemented.				
Planting & Monitoring Efforts	<ul style="list-style-type: none"> Goal is to develop recommendations for what data should be recorded during planting, establishment, and cutting, so as to know (e.g.) how long a tree typically lives in London (& if that's improving or worsening), how many trees are being removed a year, what the survival rate is of different species, etc. <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> Received presentation on most recent canopy cover data from staff 	Amber (to produce draft for TFAC)	February – March	\$0	Robust Infrastructure 1A Strong and Healthy Environment 3C
Green Legacy	<ul style="list-style-type: none"> The province has recently voted to try and take Wellington County's "Green Legacy" model (through which school children volunteer at county-owned greenhouses to grow, distribute, and plant free trees throughout the County) province wide. Our goal is to share information with PEC about the model, and make recommendations concerning how London could become involved and potentially collaborate with Middlesex County or other organizations on it. <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> Recommended staff be asked to investigate the possibility of bringing this model to London in partnership with area planting partners (such as the CAs and ReForest London). (ReForest London, in partnership with the UTRCA, school boards, and City of London, went on to prepare a proposal for a one year feasibility study into such a project and submitted it along with a funding request to the Ontario Trillium Foundation in Feb. 2017; we expect to find out the results of that application this June). If successful, the 	Amber	March - June	\$250 (honorarium for guest speaker)	Strong and Healthy Environment 3C

	<p>group will then likely look into what other organizations locally may wish to be involved in the project.</p>				
Infrastructure Replacement Projects in Roadways	<ul style="list-style-type: none"> Recent road work and tree cutting in Rowntree neighbourhood has provided an opportunity to review the processes affecting street trees in London Our goal is to make recommendations to improve citizen understanding of decisions to make removals, and to reduce the impact of construction on trees <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> Received presentation from Construction Administration staff about the work in some neighbourhoods (particularly Queenston) and requested a copy of related policy documents in 2017 so we can review and make further comment. 	Working group	January – June	\$0	Robust Infrastructure 1A

Project/Initiative	Background	Lead/Responsibility	Proposed Timeline	Proposed Budget	Link to Strategic Plan
Tree establishment recommendations	<ul style="list-style-type: none"> Explore ways to reduce mortality of newly planted street and park trees, including: <ul style="list-style-type: none"> Tree watering White pot technology Potted stock in lieu of caliper trees Growing contracts <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> Recommended that a Watering Options Report be prepared to lay out the different options available to the City for newly planted trees and what they might cost; we had been told this could be prepared for fall, 2016 but is 	Amber	December (2015) – January (2016); possibly reconsider again in autumn	\$0	Robust Infrastructure 1A Strong and Healthy Environment 3C

	<p>still pending. We did however receive an update regarding what watering did take place in 2016.</p> <ul style="list-style-type: none"> • Generally speaking, TFAC has come out consistently in favour of greater use of potted stock in lieu of caliper trees whenever possible. • Some discussion around growing contracts took place in light of the discussion around Wellington County’s Green Legacy project (which grows trees with students). • No in-depth discussion around white pot technology thus far. 				
Climate Change	<ul style="list-style-type: none"> • Climate change is expected to have enormous impacts on Canadian forests, with a minimum of 4°C of warming predicted for our country (vs. the global average of 2°C) by the end of the century, and worst case projections from the IPCC suggesting that increases as high as 10°C may be possible (for Canada) • Goal is to develop recommendations around: <ul style="list-style-type: none"> ○ Acquisition and establishment of more southerly stock ○ Piloting more southern species as street trees ○ Collaborating with more southern municipalities on climate change issues <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> • TFAC made a large number of recommendations around climate change, including: <ul style="list-style-type: none"> ○ That the City begin testing climate-adapted species from the states for use in its planting ○ That the City move from a binary classification system of “native” and “non-native” (which treats all plants not from London, no matter where they come from in the world, as equal) to a system 	Working group	January - April	\$0	Building a Sustainable City 1E: Fund innovative ways to adapt to Climate Change.

	<p>which includes “Native” “Continentially Native” and “Non-Native” (plus invasives)</p> <ul style="list-style-type: none"> ○ That the City adopt a “Non-Invasives First” policy with regards to all new plantings, to ensure a non-invasive tree has been tried (and watered) in any given location before an invasive species would even be considered ○ That the City consider working with academia to create a “Climate Change Sister City” initiative to identify a similar community in the United States which currently experiences our future climate, and one to the north of us that will have ours, so as to share information about (for example), what tree species do well in a given climate, effective ways to communicate about diseases like lyme, how to better plan for flooding, etc. ○ To date, none of these recommendations have been implemented, although some have been alluded to in the 2017 draft Tree Planting Strategy 				
Tree Planting Guidelines	<ul style="list-style-type: none"> ● This document determines what species can be planted and where on City land, and is updated on an annual basis ● TFAC will review and make suggestions for improvement this year, particularly with regard to invasive species, climate change, and allergens, and seek to more strongly connect it to the Urban Forest Strategy <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> ● A set of specific “track changes” and more general recommendations were made for updating the Tree Planting Guidelines, in hopes of minimizing how much work such an update would be for staff. Although we were told this could be done in February this year, they have not (to our knowledge), as of yet been updated. 	Working group	May - September	\$0	Strong and Healthy Environment 3C

Project/Initiative	Background	Lead/Responsibility	Proposed Timeline	Proposed Budget	Link to Strategic Plan
Committee Development	<ul style="list-style-type: none"> Identify potential educational/outreach opportunities for members to possibly attend to help keep abreast of current developments in urban forestry (e.g., forestry conferences) and plan to have at least 3 TFAC members attend such opportunities this year <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> TFAC members had had the opportunity to participate in the Urban Agricultural Symposium with AAC; unsure if any attended No other opportunities identified in 2016 	TFAC	Ongoing	\$500	Innovative and Supportive Organizational Practices 2B: Use innovative and best practices in all organizational and management activities
Companion Plantings for Trees	<ul style="list-style-type: none"> Trees often benefit from being planted in association with other native shrubs, wildflowers and grasses. Having additional naturalized land also reduces environmental impacts of land management (e.g., fossil fuel consumption for lawn mowing; stormwater runoff, etc.) and provides habitat for wildlife (e.g., bees and other pollinators). TFAC will research opportunities for this to occur on City-owned land. <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> No work accomplished on this issue in 2016 	Patti	July - December	\$0	Strong and Healthy Environment 3C
Identification of Publicly Owned Plantable Spaces	<ul style="list-style-type: none"> As the largest single landowner in London, the City owns an enormous amount of plantable land, not all of which is in parks. TFAC will work to make recommendations to help ensure that there is a regular process for identifying all plantable spaces on City-owned land and that there are systems in 	Amber	September - December	\$0	Strong and Healthy Environment 3C

	<p>place to help get them planted and contributing to London's canopy cover targets.</p> <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> No work accomplished by TFAC on this issue in 2016, although City staff have been collaborating with ReForest London on such an initiative and so some progress has been made on the issue 				
Investigate Potential for Adaptive Reuse of Municipal Lumber for Art or Business	<ul style="list-style-type: none"> Several North American communities reuse the lumber from dead municipal trees for art or for sale to local businesses (e.g., small scale furniture manufacturers). We will investigate the potential for such an initiative in London. <p>ACCOMPLISHED IN 2016:</p> <ul style="list-style-type: none"> No progress made on this issue in 2016 	Chris	Ongoing	\$0	<p>Diverse and Resilient Economy 1D: Support small businesses by improving City processes</p> <p>Diverse and Resilient Economy 1F: Promote culture as a key part of economic growth and quality of life</p>

Project/Initiative	Background	Lead/Responsibility	Proposed Timeline	Proposed Budget	Link to Strategic Plan
Fruit & Nut Tree Initiatives	<ul style="list-style-type: none"> There is a growing interest in food security issues in London. With climate change, food prices are expected to increase by 11-131% (depending on species) for staples such as corn, rice and wheat by 2050: an increase in food prices of as much as 4% is expected for 2016 alone. TFAC will collaborate with the Agricultural Advisory Committee (AAC) and the Advisory Committee on the Environment (ACE) to explore ways to increase food security through the planting of fruit and nut trees. <p>ACCOMPLISHED IN 2016:</p>	Amber (in partnership with Skylar from AAC)	February	\$0	Caring and Compassionate Services 3A: Eliminate barriers for individuals facing poverty, mental health and addictions and help them find pathways to be successful.

	<ul style="list-style-type: none"> • TFAC participated in the Urban Agriculture Symposium and made some recommendations with regards to fruit trees for the Tree Planting Guidelines 				
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IN ADDITION:

- Recommendation were made regarding:
 - The Springbank Dam
 - The Boulevard (City) Tree Protection Bylaw
 - The 2016-2019 Budget & Urban Forestry Business Case
 - The Draft Invasives Strategy
 - Breaking isolation on a local American Chestnut tree
 - The creation of a Shade Policy for London, similar to that of the City of Toronto's

- And:
 - Craig represented TFAC in the Dingman Creek consultations
 - A request was made for a PEC member to attend TFAC; subsequently, it was determined that we would invite PEC members to attend specific meetings of import, including the UFS updates and the Green Legacy presentation by Wellington County
 - Updates were received about the Southdale and Wharnccliffe Forest water issues
 - A discussion was had around Human Urban Wildlife Conflict Policy
 - A discussion was had around the Westminster Ponds ESA Restoration Work

Trees & Forests Advisory Committee

2016 Year in Review

All Topics Discussed

- ▶ Tree Planting Guidelines (Invasive Species; OPALS & Monoecious/Dioecious)
- ▶ Climate Change (inc. Assisted Migration)
- ▶ Watering Options
- ▶ Dingman Creek Consultations/Study
- ▶ PEC Attendance @ TFAC
- ▶ Boulevard (City) Tree Protection Bylaw
- ▶ Planting Pre-Assumption in New Developments
- ▶ 2016-2019 Budget & Urban Forestry Business Cases (esp. trimming cycle)
- ▶ Springbank Dam: Impact on Trees
- ▶ Southdale and Wharncliffe Forest and Water Update
- ▶ Wellington County Green Legacy Programme
- ▶ Human Urban Wildlife Conflict Policy
- ▶ Draft Invasives Strategy
- ▶ Westminster Ponds ESA Restoration Work
- ▶ Roadwork Impacts on Queenston and Alexandra
- ▶ Tree Protection Bylaw (post-approval)
- ▶ Breaking Isolation on American Chestnut
- ▶ Urban Agriculture Conference
- ▶ Tree Planting Strategy - Table of Contents (March)
- ▶ Urban Forest Strategy Updates & What We'd Like Them to Include
- ▶ Shade policy

Key Recommendations

JANUARY

- ▶ 1) the Civic Administration BE REQUESTED to provide **semi-annual verbal or written updates**, ideally in May and November, to TFAC with respect to the **Urban Forestry Strategy and its implementation**;
- ▶ 2) the Civic Administration BE REQUESTED to explore the development of a **City-planting watering program** for spring 2016 implementation, including:
 - i) the use of a planting contractor, separate watering contractor and/or City (summer) staff;
 - ii) proposed costs, warranty impacts and long-term benefits; and,
 - iii) a program monitoring process to ensure adequate watering is taking place;

Key Recommendations

FEBRUARY

- ▶ Requested PEC **non-voting member** on TFAC;
- ▶ That Civic Administration BE REQUESTED to consider the following comments with respect to the **Draft 2016-2019 Multi-Year Budget**:
 - a) appropriate funding BE APPROVED to ensure the implementation of the Urban Forestry Strategy as approved by the previous Council;
 - b) the Civic Administration BE REQUESTED to quantify the impact of not fully funding the Urban Forestry Strategy as approved by the previous council; and,
 - c) the advisory committees BE ENGAGED at the initiation of the preparation of the business cases in the budget process;
- ▶ That the Municipal Council BE ADVISED that in the opinion of the Trees and Forests Advisory Committee (TFAC) the only purpose of the **Springbank Dam** is for recreation and therefore the TFAC does not support the prioritization of recreation over the health of the Thames River and its surrounding trees.

Key Recommendations

MARCH

- ▶ That the following actions be taken with respect to the City of London's "Design Specifications and Requirements Manual" (Tree Planting & Protection Guidelines) related to climate change:
 - a) the Civic Administration BE REQUESTED to consider the attached proposed recommendations with respect to a **Climate Change Action Plan** and tree planting
- ▶ That the Civic Administration BE REQUESTED to consider the attached document with respect to the **Boulevard Tree Protection By-law**.

Key Recommendations

APRIL

- ▶ That Civic Administration BE REQUESTED to consider including the attached communication with respect to the **bi-annual Urban Forest Strategy update**, it being noted that the Trees and Forests Advisory Committee (TFAC) will extend an invitation to the members of the Planning and Environment Committee when these updates are presented.
- ▶ That the Civic Administration BE REQUESTED to consider the attached proposed recommendations with respect to the City of London's "Design Specifications and Requirements" and the "Climate Change Action Plan" and tree planting

MAY (June 1 mtg)

- ▶ N/A

Key Recommendations

JUNE (22nd)

- ▶ That the Civic Administration BE REQUESTED to consider the following comments with respect to the proposed changes to the Street Tree Guidelines:
 - a) include a **Non-Invasive First Policy** for any city approved plantings;
 - b) a proposal to consider **phased planting**, prior to assumption, in new subdivisions for the next version of the Design Specification and Guidelines document; and,
 - c) the attached changes to the **Street Tree Guidelines**;it being noted that the TFAC approved A. Cantell to attend a future meeting of the **Environmental and Ecological Planning Advisory Committee** to share the TFAC's Non-Invasive First proposal.

Key Recommendations

JUNE (cont.)

- ▶ That the following actions be taken with respect to the UFS Update:
 - a) the Civic Administration BE REQUESTED to prepare a **detailed written report**, which includes a copy of the task table with item-by-item updates and provides a systematic reporting framework for the next 18 years of the Urban Forest Strategy, for the bi-annual Urban Forestry Strategy update in November; and,
 - b) the Civic Administration BE REQUESTED to **provide a template for the above noted report** to the Trees and Forests Advisory Committee's August meeting for comment, in preparation for the November presentation;

Key Recommendations

JULY/AUGUST:

- ▶ That the Civic Administration BE REQUESTED to provide the **Draft Climate Change Adaptation Strategy** to the Trees and Forests Advisory Committee, EEPAC, and ACE for the purposes of providing feedback
- ▶ That the following actions be taken with respect to a **Green Legacy Program**:
 - a) the Civic Administration BE REQUESTED to investigate the possibility of establishing a Green Legacy program in London similar to the Wellington County Green Legacy program; and,
 - b) the Civic Administration BE REQUESTED to consider contacting Middlesex County, local conservation authorities, ReForest London, local school boards, and other planting organizations, to assist in the investigation of establishing a Green Legacy program;
- ▶ That the Civic Administration BE REQUESTED to provide the Trees and Forests Advisory Committee with the policies and guidelines that deal with trees damaged during roadwork construction and to advise as to the actions that will be taken with respect to the damage done to trees on Queenston.

Key Recommendations

SEPTEMBER

- ▶ TFAC supports the Canadian Chestnut Council's proposal to break isolation of the Dingman Creek American Chestnut Tree within the boundaries of the Dingman Creek Conservation area, provided the lands are owned by the City of London

NOVEMBER

- ▶ That Civic Administration BE REQUESTED to consider a **minimum shade standard** for parks, especially defined recreational spaces within parks, such as playgrounds and around sports fields, to ensure that upcoming planting efforts maximize the public health benefit of trees and the shade they produce for youth and other park users

OCTOBER & DECEMBER

- ▶ No recommendations (Oct.), no meeting (Dec.)

Climate Change Recommendations

- ▶ City consider 2050 Climate Change Sister Cities Initiative
- ▶ Begin investigating / piloting assisted migration
- ▶ Add a “continentally native” category for assessing “native” status of species to help distinguish between those that could conceivably expand into our area vs. those on other continents