## PE26.7 Attachment 9

		Attachment 9: D	raft Pollinator Protection Strategy impler	nentation pla	า	
Phase	Action	Key Divisions and Partners	Activities	Estimated Timeframe	Estimated Additional Cost	Notes
Create	and enhance habitat					
1	1. Plant more pollinator- friendly native plants, trees, and shrubs in City parks and	PF&R, Facilities Management	Train staff on new guidelines as part of existing horticulture staff training programs	Q2-Q4 2018	\$0	Can be achieved using annually approved budgets for plant
	facilities, with the goal of creating pollinator habitat in		Site identification for enhanced habitat	Q2-Q4 2018	\$0	purchases by choosing native plant material
	every park, where feasible.		Where feasible, select native, pollinator-friendly plants when purchasing materials through annual approved plant purchasing budget.	Q2-Q4 2018	\$0	instead of non-native.
			Where feasible, integrate site appropriate native, pollinator-friendly plants into existing beds.	2018-2019 (phased)	\$0	
2	2. Work with members of City Council to identify at least one City-managed site in each ward that can be enhanced	y at least Members of disite in each Council	Site selection in consultation with Councillors	Q2-Q4 2018	\$0	For 2018, existing Parks staff time can be reallocated to initiate this action.
			Site preparation and creation of new bed (15 ft x 10 ft)	2018- 2019 (phased)	\$500	
	for pollinators and serve as a model garden, and establish a	Park People,	Install educational signage as gardens are established.	2018-2019 (phased)	\$750	For 2019 and onwards,
	pollinator demonstration	Friends of Parks	Staff time (1 FTE for 7 hours)	2019	\$250	new staff and resources
	garden at Toronto City Hall.	Groups	Maintenance	ongoing	TBD	time may be required.
			Total		\$1500/garden (not including maintenance) <b>=\$70,500</b> (for 47 wards)	
2	3. Create "pollinator patches" at urban agriculture sites	PF&R, TPH	Site identification in consultation with community and City staff	Q2-Q4 2018	\$0	For 2018, existing Parks staff time can be
	managed by the City by incorporating pollinator- friendly native plants into	Food Policy Council, Toronto Urban Growers,	Site preparation and creation of new bed (15 ft x 10 ft) Integrate native, pollinator-friendly	2018- 2019 (phased)	\$500	reallocated to initiate this action.
	community gardens and allotment gardens.	Park People, Friends of Parks Groups	plants appropriate for the selected location into existing beds and maintenance.			For 2019 and onwards, new staff and resources time may be required.

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			Install educational signage as pollinator patches are established.	2018- 2019 (phased)	\$750	
			Staff time (1 FTE for 7 hours)	2019	\$250	
			Maintenance	ongoing	TBD	
			Total		\$1500/garden (not including maintenance) = <b>\$75,000</b> (50 estimated sites)	
2	4. Work with Solid Waste Management Services to identify City-owned closed landfill sites that may have	SWMS, PF&R Ontario Waste Management	Site identification / habitat evaluation at four sites (Tyrell, Brock West, Thackeray, and Keele Valley are being considered)	Q3 2017 (complete)		Two sites will be amended in 2019 and two sites will be amended in 2020
	the potential to become high quality pollinator habitat.	Association	Site preparation and maintenance	2019 & 2020	\$0	(depending on input from PF&R). Estimates
			Wildflower and grass seed mix purchase	2019 & 2020	\$0	assume that labour would be provided by volunteers or existing PF&R staff. Costs are estimated seed mix only, from existing hydroseeding/site maintenance budget. (no additional costs).
1	5. Review the City's landscaping practices, including mowing and mulching activities, with the	CP, PF&R, Transportation Services	Staff complete information session with Pollinator Partnership Establish working group to make recommendations to best practices for	Q4 2016 (complete) Q3 2018	\$0 \$0	City Planning to lead as part of the work being done on the Biodiversity Strategy. Anticipated
	goal to preserve pollinator habitat.	Pollinator Partnership	mowing and mulching.			net cost saving in reduction of mowing activity and more strategic use of mulch.

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Design	and connect green spaces					
1	<ul> <li>6. Identify opportunities to</li> <li>improve connections</li> <li>between existing habitat, and</li> <li>encourage the creation of</li> </ul>	PF&R, EED, Strategic Communications	Engage with neighbourhood associations, horticultural societies, garden clubs, not-for-profits	Q2 2018	\$0	Partner with organizations working on corridor creation.
			Develop key messages	Q3 2018	\$0	
	"pollinator pathways" to	David Suzuki	Train staff and volunteers	Q3 2018	\$0	Potential for
	foster corridor creation across the city.	ss Foundation, World Wildlife	Publish information on livegreentoronto.ca	Q3 2018	\$0	sponsorship for cost of signage, if pursued.
		Fund, Carolinian Canada	Investigate tools and partners for mapping corridors	Q4 2018	\$0	
2	7. Continue to support the work of the Toronto and Region Conservation Authority (TRCA) to revitalize	PF&R, TRCA, Toronto Hydro	Set up preliminary meeting with Parks and TRCA to establish scope of partnership and identify barriers.	Q2 2018	\$0	TRCA to work closely with Parks staff to determine scope and associated costs.
	hydro corridor space in Toronto and transform it into high functioning meadow	oronto and transform it into gh functioning meadow abitat that supports ollinators, by contributing aff time and exploring	Identify initial funding requirements, Parks staff support, additional partnerships etc.	Q2 2018	TBD	Resource request as part of 2019 Budget submission.
	pollinators, by contributing staff time and exploring		Prepare work plan, implementation plan and long term budget requirements.	Q3-Q3 2018	TBD	
	funding requirements needed to advance these efforts.		Support TRCA with the revitalization of hydro corridor space in Toronto.	2019	TBD	
1	8. Enhance areas of the City Hall podium green roof with pollinator-friendly habitat,	PF&R, EED, CP	Coordinate activities with Parks Supervisor and Gardeners that maintain the City Hall green roof.	Q4 2017 (complete)	\$0	
	where possible, accompanied by educational signage, to demonstrate the role green roofs play in pollinator habitat and corridor creation.		Establish protocol with Gardeners - as plant material needs to be replaced over time, pollinator-friendly plants are incorporated where possible.	Q4 2017 (complete)	\$0	
			Investigate the feasibility of installing educational signage on the green roof podium that speaks to green roofs as habitat for pollinators.	Q2 2018	\$1000	

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2	9. Engage with developers, property owners and landscape architects to	CP, Toronto Building, EED	Update the City's Guidelines for Biodiverse Green Roofs – EED to work with City Planning	Q4 2018	\$0	City Planning and Toronto Building to update 'Guidelines for
	encourage the creation of pollinator friendly landscapes, and promote biodiverse, pollinator-friendly green roofs, by updating information in the City's Guidelines for Biodiverse Green Roofs and by offering support through the City's existing Eco-Roof Incentive Program.	GRIT lab at the University of Toronto, Green Roofs for Healthy Cities	Present a report to Council that investigates offering increased funding for biodiverse green roofs through the Eco-Roof Incentive Program, based on criteria established from the City's Guidelines for Biodiverse Green Roofs.	Q3 2019	\$0	Biodiverse Green Roofs' as part of work to update the Green Roof Supplementary Guidelines. The Eco-Roof Incentive Program is self- sustaining, therefore no additional resources will be requested to provide support for biodiverse green roofs, if approved by Council.
1	10. Work with relevant City divisions to ensure native, pollinator-friendly plants are considered in the implementation of green	EED, CP, TW, Transportation Services, Engineering and Construction	Communicate recommendations regarding pollinator plantings to City staff responsible for relevant projects, guidelines and policies.	Q2 2018	\$0	Toronto Green Standard updated in Q4 2017 with reference to native, pollinator- friendly plantings, andwill come into effect May 2018.Other relevant policy will be updated as part of regular reviewprocess established by Division responsible.
	infrastructure projects undertaken by the City, and included in City guidelines such as the Green Streets Technical Guidelines, Complete Street Guidelines,	Services, Toronto Parking Authority	Revise guidelines as required, as part of regularly scheduled project review and updates.	2018-2019	\$0	
	the Toronto Green Standard, the Wet Weather Flow Master Plan and Policy, Greening Surface Parking Lots, Streetscape Manual and other relevant policies.		Consider developing case studies on successful implementation of green infrastructure projects with pollinator stewardship elements.	Q3 2018	\$0	

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1	11. Engage with the Toronto Association of Business Improvement Areas (TABIA), property and rental associations, condominium	PF&R, EED, EDC TABIA, TCHC, Toronto Parking Authority,	Communicate and schedule meetings with identified partners to identify site specific opportunities to create pollinator habitat.	Q2 2018	\$0	Property owners will be provided support from the City in selecting plants. Cost of materials and maintenance will be
	boards, faith groups and other large property owners to encourage the creation of	GTAA, BOMA, condominium boards,	Provide ongoing support in plant and site selection, promotion and education initiatives.	Ongoing	\$0	determined by the property owner.
	native plantings. cemet course	churches and cemeteries, golf courses, institutions	Assist property owners in securing financial and community support for installation and maintenance of pollinator gardens.	Ongoing	\$0	_
			Consider developing case studies of pollinator gardens to inspire others.	Q4 2018	\$0	
1	12. Partner with Toronto Master Gardeners, Landscape Ontario and horticultural and landscape school programs to provide advice and inspiration	PF&R, EED Toronto Master Gardeners, Landscape	Communicate and schedule meetings with identified partners to identify opportunities to provide services to residents and practical experience to students.	Q3 2018	\$0	On-site consultations offer benefits to property owner looking for site specific recommendations, and offer students practical hands-on experience and school credit. Toronto Master
	to property owners in Toronto interested in creating pollinator habitat through on- site consultations and	Ontario, Humber College, Ryerson, and other landscape	Promote partnerships to residents through livegreentoronto.ca and regular Live Green Toronto outreach, combined with partner outreach.	Q3 2018	\$0	
	information sessions.	school programs	Monitor and track participation.	Q2 2019	\$0	Gardeners already offer
			Gather feedback from participants and revise program accordingly	Q3 2019	\$0	<ul> <li>consultations. Engage</li> <li>with landscape</li> <li>companies through</li> <li>Landscape Ontario.</li> </ul>
2	13. Continue to work with local growers and nurseries to	PF&R, EED	Identify local growers and nurseries	Q1 2018	\$0	Program development for point of sale campaign may be explored. Resource
	encourage them to provide native, pesticide-free plant	Canadian Nursery	Make connections and meet with local growers to learn growing techniques and timing.	Q2 2018	\$0	

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Pliase	Action	and Partners	Activities	Timeframe	Additional Cost	Notes
	material and seeds for pollinator habitat, and explore ways to make these	Landscape Association, Landscape	Work together to identify opportunities to reduce or eliminate pesticide use.	Q3 2018	\$0	request part of 2019 Budget.
	items easier for consumers to identify in stores.	Ontario	Explore best practices for educating consumers in store through point-of sale campaigns	Q3 2018	\$0	
1	14. Support university and college-led research and monitoring projects, and	EED, PF&R, TOP Universities,	Start by engaging with universities and colleges that have MOUs with the City and investigate potential partnerships.	Q2 2018	\$0	Details about specific partnerships and funding requirements
	citizen science initiatives that support the goals of this Strategy, and provide data to track and measure the success of implementing the	colleges, David Suzuki Foundation, Bumble Bee Watch	Promote existing citizen science projects and look for opportunities to create new projects and partnerships. (e.g. University of Toronto and David Suzuki Foundation)	Q2 2018	\$0	will be brought forward to Council for consideration as required. There are a number of external funding opportunities available to community orgs. MOUs exist with Toronto universities and colleges and the City.
	actions in the Strategy.		Look for opportunities to work with students doing research, literature review, policy analysis, policy briefs, GIS/mapping work, etc that support the goals of the Pollinator Strategy.	Q3 2018	\$0	
1	15. Convene an Aboriginal Committee/Working Group to provide ongoing feedback on the incorporation of Indigenous knowledge,	EED, CP, PF&R, Indigenous Affairs Office, City Manager's Office	In consultation with the City Manager's office, reach out to the Indigenous community in Toronto to determine interest in participating in Working Group.	Q4 2017 - complete	\$0	This is intended to contribute to the City's Commitments to Aboriginal Peoples, and to lead to fuller outcomes through Indigenous engagement and collaboration in the implementation of the Strategy.
	practices, and approaches in the implementation of the Strategy.	Indigenous groups in	Establish Working Group to advise on implementation strategies and outreach.	Q2 2018	\$0	
		Toronto	Continue to consult with Working Group on the development of the Biodiversity Strategy.	Ongoing	\$0	
1	16. Continue to coordinate with the Province of Ontario	EED	Stay connected with Provincial staff, information share and update	Ongoing	\$0	Connections have been made between City and

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	on the Pollinator Health Action Plan, and the Provincial Apiarist on the	OMAFRA, Provincial Apiarist	Provide feedback as requested on elements of the Pollinator Health Action Plan	Ongoing	\$0	Provincial staff. Initial discussions have taken place. City staff to stay
	Ontario Bees Act.		Participate in the consultation process for proposed changes related to the Ontario Bees Act	When announced by province	\$0	engaged in the process
Invest a	and incentivize					
1&2	17. Develop and seek funding sources for an incentive	EED, PF&R, TOP	Develop a draft criteria for a pilot incentive program	Q1 2018	\$0	Sponsorship and external funding to be
	program that provides modest financial support to		Identify funding source to support the incentive program	Q1 2018	\$0	explored.
	encourage community-led pollinator habitat creation or enhancement, and pollinator education initiatives.		Develop outreach campaign to promote the incentive program with existing Live Green Toronto outreach resources.	Q3 2018	\$0	*Request to use outstanding balance in Reserve Fund XR1719 and transfer to new
			Review applications and issue grants as appropriate	Ongoing in 2018-2019	\$0*	Pollinator Protection Reserve Fund.
			Monitor and review program annually	Annually	\$0	
1	18. Explore the creation of a City procurement policy to purchase more pollinator- friendly native plants, and to	PF&R, PMMD	Parks to engage with Purchasing and Materials Management to discuss approach to development of procurement policy	Q2 2018	\$0	Plant purchases would continue using annually approved budget. Different purchasing
	select plants and seeds that have not been treated with		Parks to determine scope of plant purchasing requirements	Q2 2018	\$0	parameters would be applied but expenditure
	systemic pesticides (e.g.		Develop draft procurement policy	Q4 2018	\$0	would remain within
	neonicotinoids) for use in City-managed spaces, and incorporate these guidelines into tender documents for all City divisions.		Report to Council	Q4 2018	\$0	approved budgets.
1&2	19. Inspire residents to create pollinator habitat by offering	EED PF&R, SWMS,	Develop gardening tips	Q4 2017 (complete)	\$0	Sponsorship and external funding to be
	resources such as pollinator- friendly gardening tips, plant	Councillors	Source and compare quotes for native plant seeds	Q3 2018	\$0	explored. *Potential to use outstanding balance

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	lists, seeds and recognition signage (e.g. Pollinators Are Welcome Here!) through the		Source and compare quotes for signage Develop outreach strategy including Councillor messaging for residents.	Q3 2018 Q4 2018	\$0 \$0	of in Reserve Fund XR1719. Seed provider and
	City's Community Environment Days and Live Green Toronto outreach events.		Create and purchase items for "pollinator packs" to distribute at events	Q4 2018, events in 2019	\$0*	signage provider to be identified through Divisional RFQ process.
2	20. Update the City's Street Tree brochure to include information on how trees benefit pollinators and identify which trees are pollinator-friendly.	PF&R	Work with Urban Forestry to update brochure at the next scheduled re- print.	Q4 2019	\$0	
1	21. Seek sponsorships, grant and external funding opportunities to support the actions presented in this Strategy.	EED, TOP	Meet with relevant staff at Toronto Office of Partnerships and EED to coordinate inclusion of pollinator actions in existing grant applications, sponsorship proposals.	Q2 2018	\$0	
			Monitor relevant grant and funding databases (Grant Connect, Fundtracker, Philanthropic Foundations Canada) for available relevant funding opportunities	Ongoing	\$0	
Educat	e and train					
1	22. Develop pollinator- friendly gardening practicesEED, PF&	EED, PF&R Pollinator	Work with native plant experts and non-profit organizations to identify pollinator friendly plants	Q4 2017 (complete)	\$0	Cost for printing resources will come from already allocated
	pollinator-friendly native plants, trees and shrubs	Advisory Group, David Suzuki	Compile gardening tips based on the advice of experts	Q4 2017 (complete)	\$0	Live Green Toronto budget.
	suited to the Toronto area.	Foundation, North American	Print hard copies for distribution at events	Q2 2018	\$0	
		Native Plant Society	Post list online at livegreentoronto.ca	Q2 2018	\$0	

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1	Toronto to develop and	nto to develop andinput from Strategic Con and Pollinator Advisoryer outreach on pollinatorIndigenousand Pollinator Advisoryardship, and look forgroups inConsult with Indigenousrtunities to incorporateTorontomaterials for education	Develop educational materials with input from Strategic Communications and Pollinator Advisory Group	Q2 2018	\$0	Pollinator messaging can be incorporated into existing Live Green
	stewardship, and look for opportunities to incorporate Indigenous cultural content		Consult with Indigenous groups on materials for educational workshops and Live Green displays	Q2 2018	\$0	Toronto programming. Speaking honorarium
	into educational initiatives.		Create dedicated page on livegreentoronto.ca and publish all relevant resources	Q2 2018	\$0	will be funded through already allocated Live Green Toronto budget.
			Host educational workshops at libraries	Q2 2018	\$0	Four Library overts are
			Train Live Green Toronto Volunteers on pollinator stewardship and outreach	Q2 2018	\$0	<ul> <li>Four Library events are scheduled for 2018.</li> </ul>
			Continue to incorporate pollinator initiatives into Live Green Toronto outreach and activities	Ongoing	\$0	
1	24. Engage with Toronto School Boards to encourage schools to create pollinator habitat, with the goal of creating a teaching garden at every school, and investigate support for ongoing garden	EED, PF&R School Boards, Ontario Institute for Studies in Education	Contact representatives from each Toronto School Board to identify opportunities, determine which schools already have pollinator education programs and gardens, discuss best practices for school gardens / maintenance requirements.	Q3 2018	\$0	Opportunity to learn from schools already successfully installed and maintaining pollinator gardens. Set of best practices can be developed and shared with other schools. Engage community and parents in pollinator
	maintenance. Ecoschools	(OISE), Ontario	Work with Ontario EcoSchools and TDSB Ecoschools programs to highlight pollinator stewardship in Ecoschool certification requirements	Q3 2018	\$0	
			Engage with OISE and relevant indigenous and environmental groups on the development of resources for teachers and how to incorporate into curriculum.	Q3 2018	\$0	garden maintenance needs during school break in summer months.
		Encourage	Encourage the establishment of pollinator gardens at Toronto schools	Q4 2018	\$0	-

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			through information and resource sharing (grants and incentives)			
			Assist Toronto schools in securing financial and community support for installation and maintenance of pollinator gardens	Ongoing	\$0	
			Develop case studies of Toronto school pollinator gardens to inspire others	Q4 2018	\$0	-
1	25. Continue and expand PF&R training for City staff on pollinator protection practices through the Horticulture Program of Excellence and identify pollinator-friendly native	PF&R	Update plant list to identify pollinator friendly plants and make available to City staff.	Q4 2017 (complete)	\$0	Ongoing staff training can be achieved using existing resources.
			Identify appropriate training topics and develop training sessions	Q2 2018	\$0	Draft plant list has been
			Schedule sessions for the year with Horticulture staff	Q2 2018	\$0	developed.
	plants on the plant list available to City horticulture staff.		Investigate developing a course to be offered to City Staff on pollinators that could be available through ELI	Q4 2018	\$0	-
1	26. Collaborate with the Ontario Beekeepers' Association, Toronto-based beekeeping groups and the	EED, PF&R Ontario Beekeepers	Participate in beekeeping working group once established by OBA and Provincial staff.	When Province establishes group	\$0	Province and OBA to take the lead on establishing working group and best
	informed beekeeping in Toronto by creating best practices, promoting training for novice beekeepers, and educating potential	Toronto by creating best Beekeepers	Create an online resource centre to serve as a first point of contact for potential beekeepers in Toronto.	Q3 2018	\$0	<ul> <li>practices, with City of</li> <li>Toronto participation.</li> </ul>
		Botanical	Monitor and track inquiries related to beekeeping.	ongoing	\$0	
	beekeepers about habitat creation as a more effective way to help pollinators.	Gardens, OMAFRA, Provincial Apiarist	Review best practices and online resources as required	ongoing	\$0	

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1	27. Celebrate and promote National Pollinator Week and Toronto's status as the first Bee City in Canada by	EED, PF&R Bee City Canada	Develop and submit Proclamation request to have third week of June proclaimed as "Pollinator Week" in Toronto.	Q2 2018	\$0	Event sponsorship covered 100% of the costs of the annual events in 2016 & 2017.
	undertaking at least one public education and/or habitat creation or		Identify event partner / sponsor and work collaboratively to develop celebration event	Q2 2018	\$0	Live Green Toronto partnered with Burt's Bees to deliver this
	restoration activity each year.		Event logistics and site preparation	Q2 2018	\$0	event. The same is – anticipated for 2018.
			Event promotion and outreach	Q2 2018	\$0	
1	28. Work with relevant partners such as Canadian	EED, PF&R	Engage with partners on existing programs	Q4 2017 (complete)	\$0	City to partner with existing program.
	Wildlife Federation, Monarch	Canadian	Develop outreach strategy	Q2 2018	\$0	
	Watch, Pollinator Partnership, World Wildlife Fund, Carolinian Canada, and others to promote existing certification programs, mapping tools, and other resources that guide and recognize Toronto property owners in creating pollinator habitat.	Wildlife Federation, Monarch Watch, Pollinator Partnership, World Wildlife Fund, Carolinian Canada	Promote program(s) to residents online and at Live Green Toronto outreach events	Q2 2018	\$0	-
1	29. Add a pollinator-friendly garden category to the City's existing Garden Awards	PF&R	Expand the Garden Awards by adding a pollinator-friendly garden category	Q2 2017 (complete)	\$0	New category was successfully added to the 2017 Garden
	program, and inspire others by offering in person and virtual tours of award-		Review submissions and select winners	Q2 2018	\$0	Awards.
	winning gardens.	inning gardens.	Profile winners online and offer virtual tours of gardens, highlighting pollinator-friendly features and plants	Q3 2018	\$0	Opportunity to promote past and future winners to inspire others.
			Investigate the ability to offer in person tours once a year of award winning gardens to inspire others	Q3 2018	<b>\$500</b> (staff time, transport)	

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2	30. Investigate the opportunity to incorporate pollinator protection initiatives into the City's existing Urban Design Awards.	СР	Meet with City Planning to determine approach to incorporate encouragement of pollinators into the awards call and judging criteria Establish criteria for pollinator-friendly design	Q3 2018 Q4 2018	\$0	The City's Urban Design Awards run every other year, with the next award round scheduled for 2019.
			Promote new criteria/category Ensure that judging panel is familiar	Q1 2019 Q1 2019	-	
Total			with new criteria		\$147,000	