

# ANNUAL REPORT - UNLISTED PESTICIDE USE

## for the year 2020

**Golf Course:** Keystone Links Golf and Country Club

**GC IPM #:** 11-690

**Address:** 2402 Clifford Line Peterborough Ontario K9J 6X6

**Email Address:** keystonelinks@gmail.com

**Tel:** 705-876-8061

**IPM Certified Agent(s):** Tara DeBlois

**IPM Agent(s) Certification Number(s):** 2845

Unlisted Pesticide Ingredient	Reason for Use	Total Quantity Unlisted Pesticide Ingredient Used (kg)		Reason for Increase/Decrease from Previous Calendar Year
		2019	2020	
chlorpyrifos	Ants on greens	0.048	1.440	Widespread activity affecting putting surface causing impediment to golf play
chlorothalonil	Snow mould prevention	24.556	10.498	product rotation
trifloxystrobin	Dollar Spot control	0.17	.442	product rotation
tebuconazole	Dollar spot disease prevention	2.4	2.400	

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Unlisted Pesticide Ingredient	Reason for Use	Total Quantity Unlisted Pesticide Ingredient Used (kg)		Reason for Increase/Decrease from Previous Calendar Year
		2019	2020	
triticonazole	Dollar spot disease control	0.37	.370	
propiconazole	Snow mould prevention	1.532	1.653	product rotation
fludioxonil	Snow mould prevention	0.212	.421	product rotation
iprodione	Dollar Spot Disease control	3.4	7.752	product rotation

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Unlisted Pesticide Ingredient	Reason for Use	Total Quantity Unlisted Pesticide Ingredient Used (kg)		Reason for Increase/Decrease from Previous Calendar Year
		2019	2020	
Isofetamid	Dollar spot disease control	NA	.800	product rotation

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**Please upload map(s) of the golf course showing the locations where unlisted pesticides were applied, and identify use by unlisted pesticide ingredient or by product type (fungicide, insecticide, herbicide, growth regulator)**

Please explain how practicing integrated pest management (IPM) and maintaining IPM accreditation with the IPM Council of Canada minimized the use of pesticides on your golf course and how it will minimize use in this current calendar year.

Elevated traffic and increased levels of play created extremely stressful conditions for turf this season. Combined with reduced staffing, we were challenged to maintain playing conditions. We narrowed our focus for control to greens as key playing areas, applying much higher thresholds to secondary areas such as fairways and rough. Purchase of new aeration equipment means we have more options for minimizing stress due to thatch and compaction on greens which should contribute to less need for chemical controls in future as we work to improve the quality of greens. Unusual patterns were observed this season with dollar spot life cycle, with the disease appearing to skip visible mycelial stage and become observable through sudden turf spotting. In response one preventative application was done based on previous scouting data to avoid a sudden turf loss event on our key playing areas. The main component of our program for 2020 was "reduce the stress." By redirecting traffic, frequent aeration, reduced mowing and height of cut adjustments, attention to irrigation we used all the mechanical and cultural tools available to us to improve turf vigour and reduce need for chemical controls.

*We, the undersigned, attest that the above information is accurate and inclusive of all pesticide products applied on our golf course for the entire year. We are aware that it is an offence under the Pesticides Act: 17(6) to include false or misleading information in any document or data required to be created, stored or submitted under the Act.*

**Primary IPM Certified Agent signature:**

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**Date:** 18-December-2020

**Owner's representative name & position:**

Keyla Wight

**Signature:**

\_\_\_\_\_

Print hard copy for signatures. Signed Annual Reports must be scanned and uploaded in My IPM area of IPM Council of Canada website.