

# ANNUAL REPORT - UNLISTED PESTICIDE USE

## for the year 2021

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

**GC IPM #:** 11-690

**Address:** 2402 Clifford Line Cavan Monaghan Ontario K9J 6Z9

**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
		2020	2021	
chlorpyrifos	control of ants	1.44	2.280	Increase in ant population scouted, anthill impact on play
chlorothalonil	snow mould prevention	10.498	10.281	Slight difference in area applied
trifloxystrobin	None used	0.442	.000	Product rotation, lower disease incidence
tebuconazole	dollar spot control	2.4	2.400	No change

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		2020	2021	
triticonazole	None used	0.37	.000	Product rotation, lower disease incidence
propiconazole	anthracnose control, snow mould prevention	1.653	2.798	Presence of anthracnose not scouted previous year
fludioxonil	snow mould prevention	0.42	.412	Slight difference in area applied
Isofetamid	dollar spot control	0.8	.500	Slight difference in area applied

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		2020	2021	
iprodione	None used	7.752	.000	Product rotation, lower disease incidence
2,4-D	dandelion, clover control	NA	5.320	Threshold exceeded in drought damaged areas
dicamba	dandelion, clover control	NA	.504	Threshold exceeded in drought damaged areas
mecoprop	dandelion, clover control	NA	2.800	Threshold exceeded in drought damaged areas

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		2020	2021	
glyphosate	weed control high traffic and key play areas	NA	.108	Scalp and mulch test program not effective in controlling regrowth
clothianidin	Japanese beetle control	NA	1.380	Threshold exceeded, non-chemical controls insufficient

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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.

Insect populations were exceptionally high during the 2021 season. In response we have continued to implement our long term strategy for prevention using cultural and mechanical controls. Chemical applications targeted key areas where existing populations of Japanese beetles had exceeded threshold and significant turf damage was observed. Previous tall fescue areas are now mowed to rough height to eliminate breeding areas for beetles; goal is to reduce long term need for chemical control. Disease pressure from dollar spot was less in 2021 compared to previous seasons, we were able to reduce chemical use accordingly. Presence of anthracnose was controlled with a combination of chemical application simultaneous with elimination of dense stands of staghorn sumac impeding air movement around affected area, to prevent recurrence of disease. Drought conditions and turf compaction have been identified as the key contributing factors to weed presence. Weed species are predominantly dandelion and clover which out compete turf grass in dry compacted soils. Chemical control in key affected areas was followed up by course wide improvements in cart traffic control using ropes, barriers, and improved signage, Regular aeration program to relieve compaction is ongoing. Long term strategy includes upgrade to existing irrigation system as budget permits.

*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:** 09-January-2022

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

Keyla Wight owner

**Signature:**

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