

Attachment-1 2019 Executive Summary

Guelph's Termite Control Program

The City of Guelph has an introduced infestation of the eastern subterranean termite, *Reticulitermes flavipes*, which the City has been tracking and combating since the 1970s. This insect pest can be difficult and expensive to control and can cause serious structural damage to wood frame structures and housing. In order to protect the housing stock of the City, and to prevent the continuous spread of this invasive species, the City has implemented a comprehensive termite control program. Traditional termite control uses soil insecticides and wood preservatives to treat affected structures, but does not address the termite population, which continues to spread. The City's program integrates all traditional methods of pre-treatment and remedial treatment as well as preventative measures in new construction, termite habitat elimination, and termite population suppressive treatments.

Ongoing Management by Trapping, Habitat Elimination and Nematode and Borate Treatments

The small extent of the remaining activity allowed us to use highly focused management efforts in 2019. This included intensive wood removal efforts in combination with spring and fall treatments with insect specific nematodes and some chemical spot treatments.

Windermere Management Area Converts from Blue to White Status

The City had five termite management areas as shown in (Figure 1). However, due to complete inactivity for five consecutive years, the Emma-Pine management area was removed from further active management in 2017. The year of 2019 was the third consecutive year with no activity in the Windermere management area and it therefore converts from blue to white status. Monitoring and continued active management will therefore cease in this area. Traps will be removed in the coming spring.

King Street Management Area Inactive in 2019

The King Street Termite Management area, which was first discovered in 2013, was inactive during all inspections in 2019. This was the first year this area has been continuously inactive for an entire year. Monitoring will continue in this area.

Continued Low-Level Activity in the Woolwich and John Galt Park Areas

Figures 2 and 3 show the decline in the number of active properties and number of termites trapped for each block from 2010 to 2019. Figure 4 shows that the total number of active properties remained stable from 2018 to 2019 with 8 active properties. Figure 5 shows a decline in the total number of termites trapped for all blocks. The total number of termites trapped in 2018 was 19,782 compared to 7,807 in 2019, a 61.5% decline. Figure 6 shows the areas of detected activity in the Woolwich and John Galt Park Areas in 2019.

Discovery of a New Infested Area of the City and Designation of the Eastview Management Area

On October 18, 2019 a resident doing basement renovations reported suspected termite activity. The Termite Control Officer confirmed that the damage was caused by termites. Subsequently a yard survey of the area revealed termites on many additional properties. The Eastview Management Area has been designated with 37 red zone properties and 22 blue zone properties (see Figure 1). Indoor inspections have been conducted on most of the red zone properties and borate treatments were conducted on 16 of these properties. Stump removals were conducted on 6 properties. A separate mailing to residents of this area will detail further management steps to be taken in this area over the coming 2020 season.

Reclassified Properties and Shrinkage of the Management Areas

The new boundaries of the termite management areas for 2019 are shown in Figure 7. The reduction in the number of red and blue zone properties from 2007 to 2019 is graphed in Figure 8. Properties that change status from red to blue or blue to white are listed in Table 1.

Chemical Treatments and Inspections in 2019

Five remedial or preventative treatments were performed with borate sprays. In addition, 25 inspections were performed for real estate transactions, 35 for building permits, and 143 inspections for disposal permits.

2019 Report

As with previous annual reports, the full 2019 report can be accessed on the City's website at guelph.ca/termites.

Goals for the 2020 Season

The goals for the upcoming season will be similar to 2019:

- This executive summary, all figures and Table 1, will be sent to affected residents as an annual progress report.
- Maps of the new boundaries of the termite management areas will be posted on the city's website and reclassified properties will be flagged in building department records.
- Termite monitoring traps will be installed in each red zone property, and 3 in each blue zone property.
- Existing monitoring traps will be refurbished with new cardboard rolls and lids, and any missing traps will be replaced.
- Traps will be checked on a biweekly to monthly cycle through the end of October, depending on level of activity.
- Monitoring traps will be reduced or removed in re-classified areas.
- Boron rods will be installed in fence posts and retaining walls in the Eastview red zone.
- Insect-pathogenic nematodes will be applied in the fall from September to October in areas of detected activity.

- Chemical spot treatments will be applied in the vicinity of any ongoing structural activity with signed consent of owners.
- Yards will be monitored for any inappropriate wood such as wood chip mulch, fire wood, scrap lumber, and stumps; disposal orders and permits issued as required.

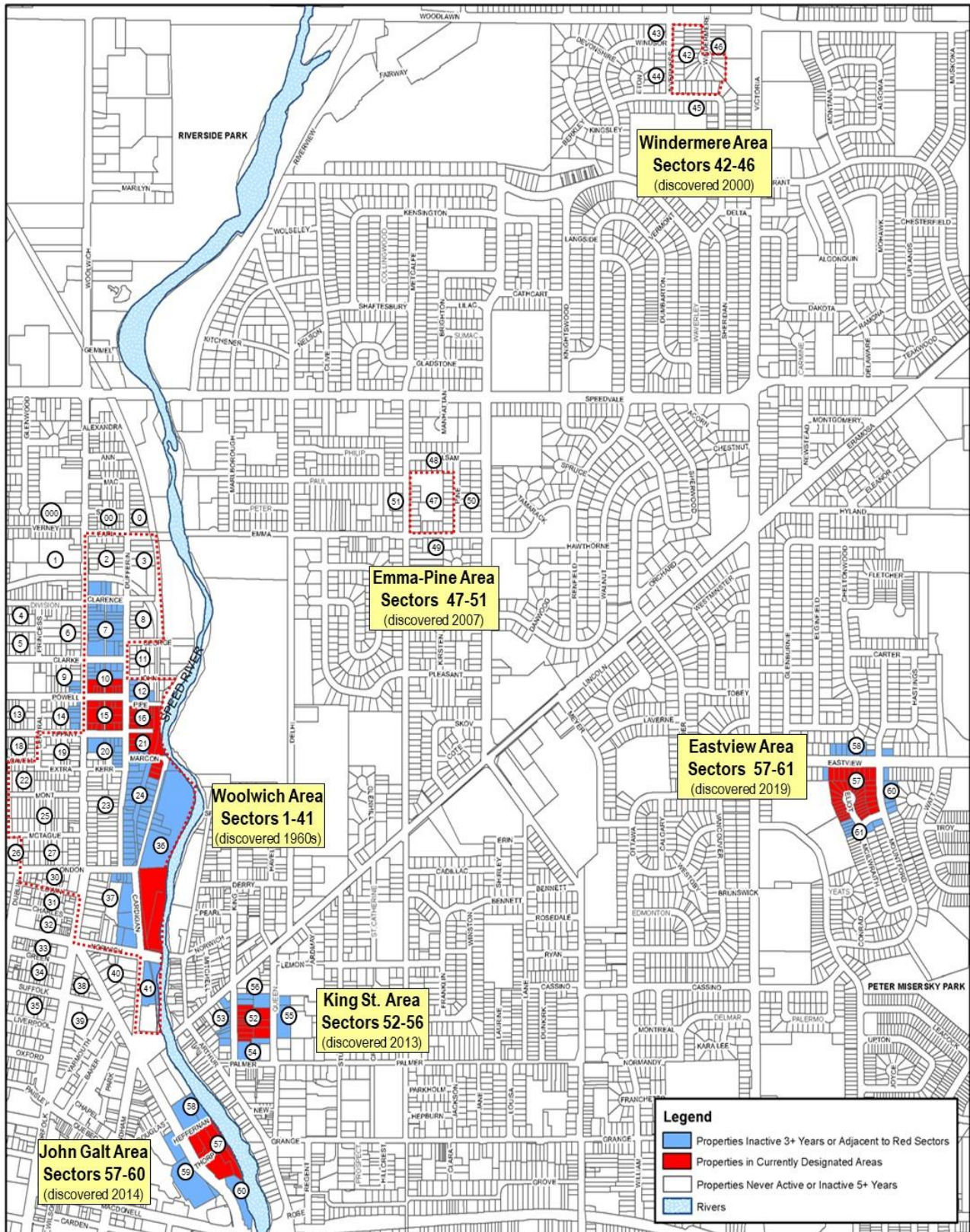


Figure 1. Guelph termite management areas, sectors numbers, and red and blue zones in 2020.

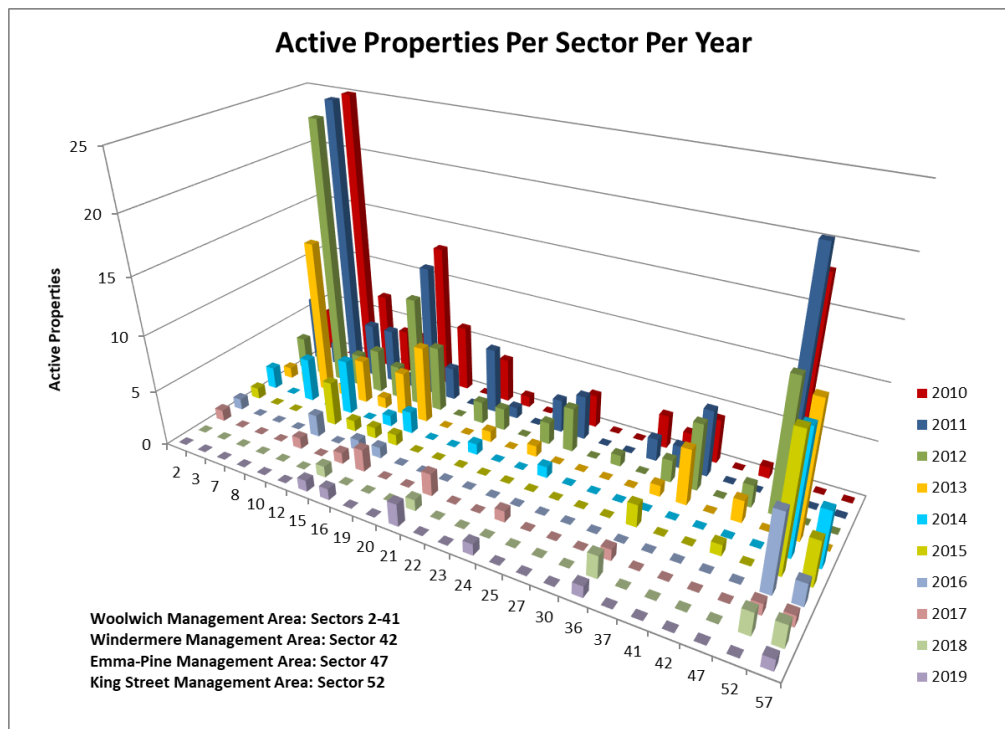


Figure 2. Active properties per sector per year 2010-2019.

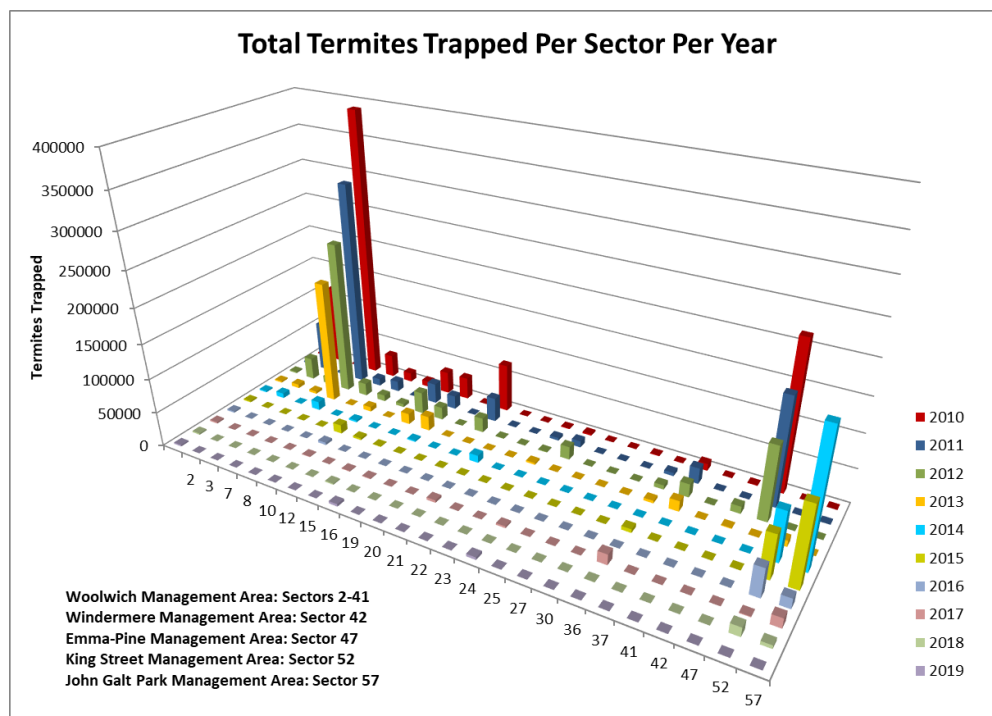


Figure 3. Total termites trapped per sector per year 2010-2019.

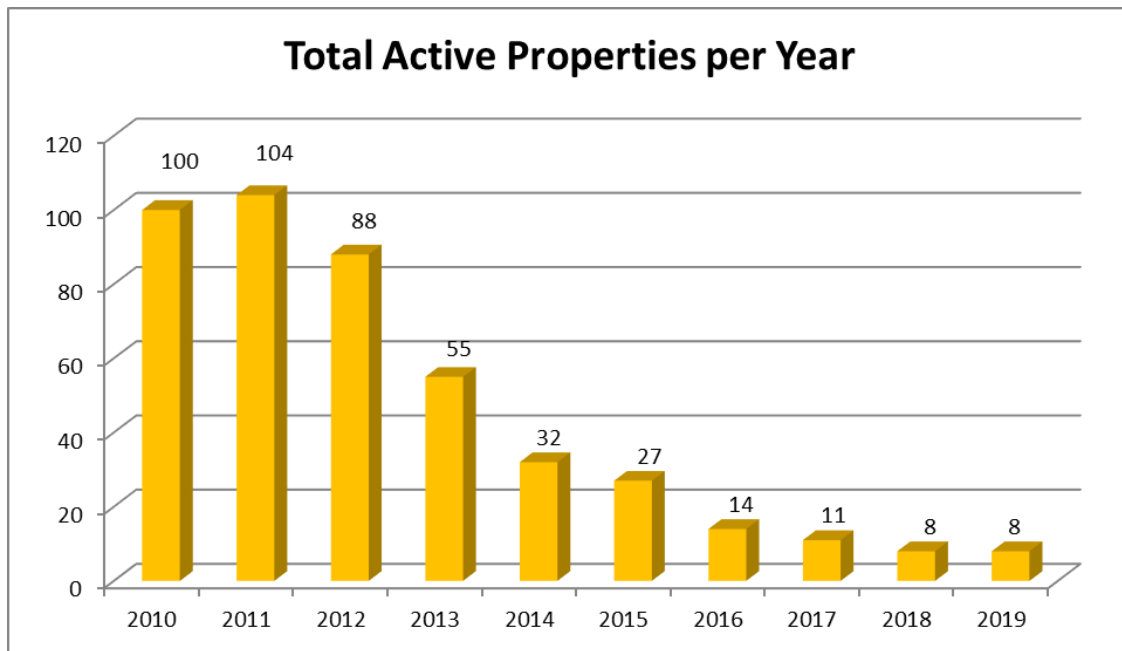


Figure 4. Total number of active properties per year 2010-2019.

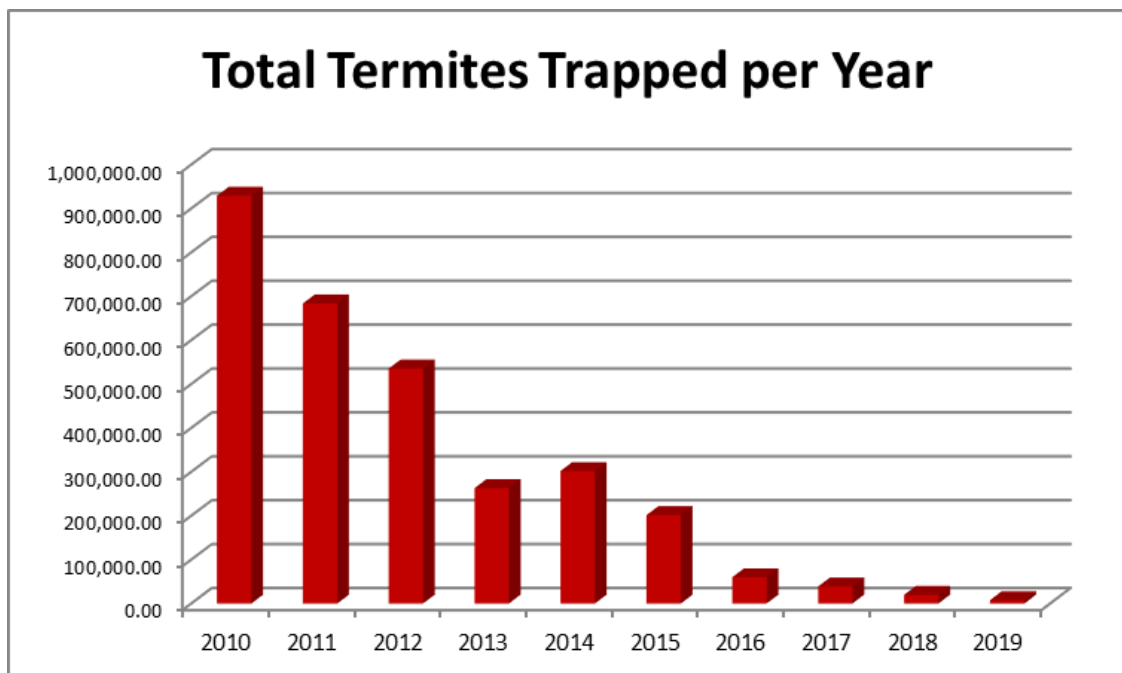


Figure 5. Total termites trapped per year 2010-2019.

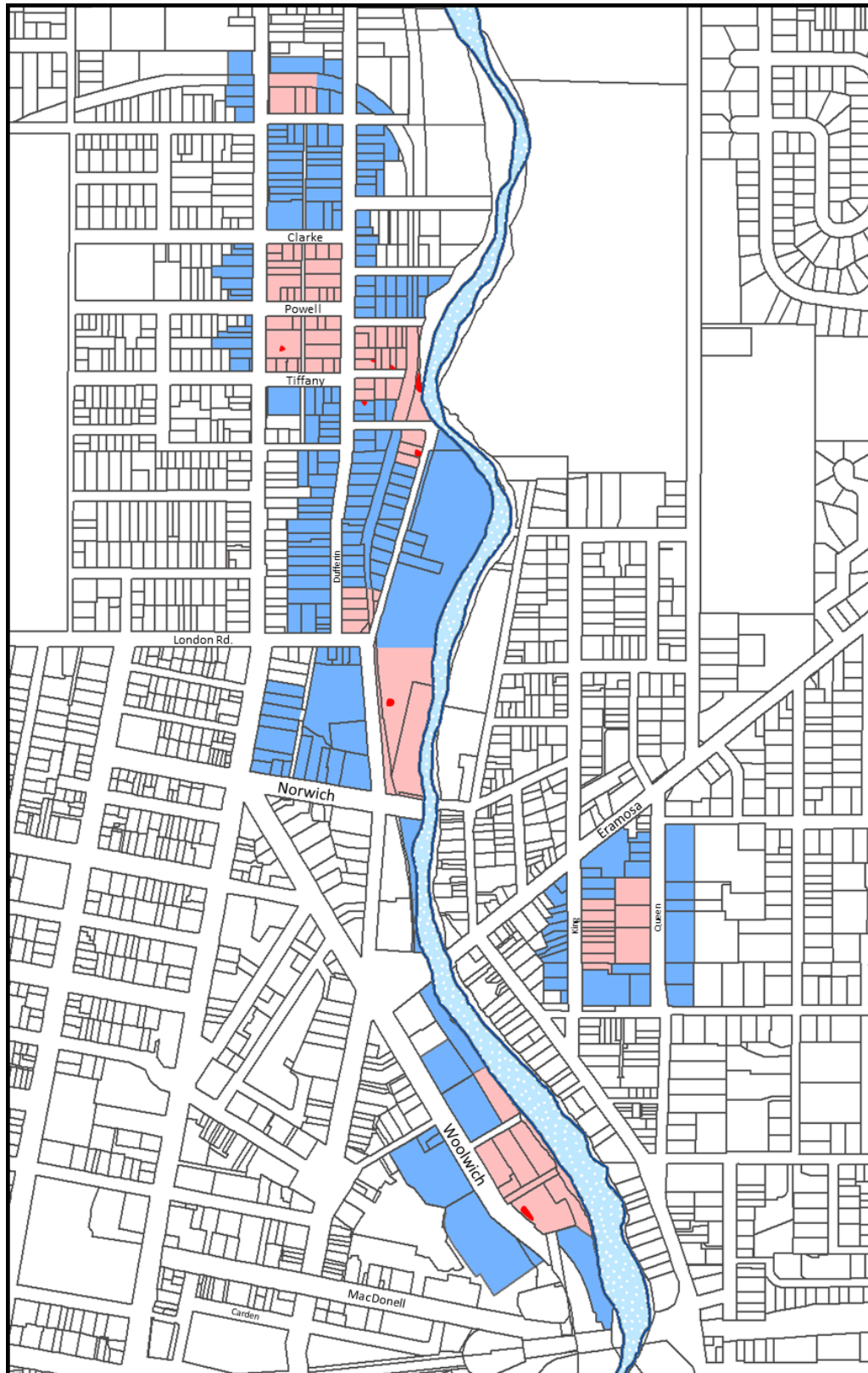


Figure 6. Areas of detected activity (red spots) in 2019.

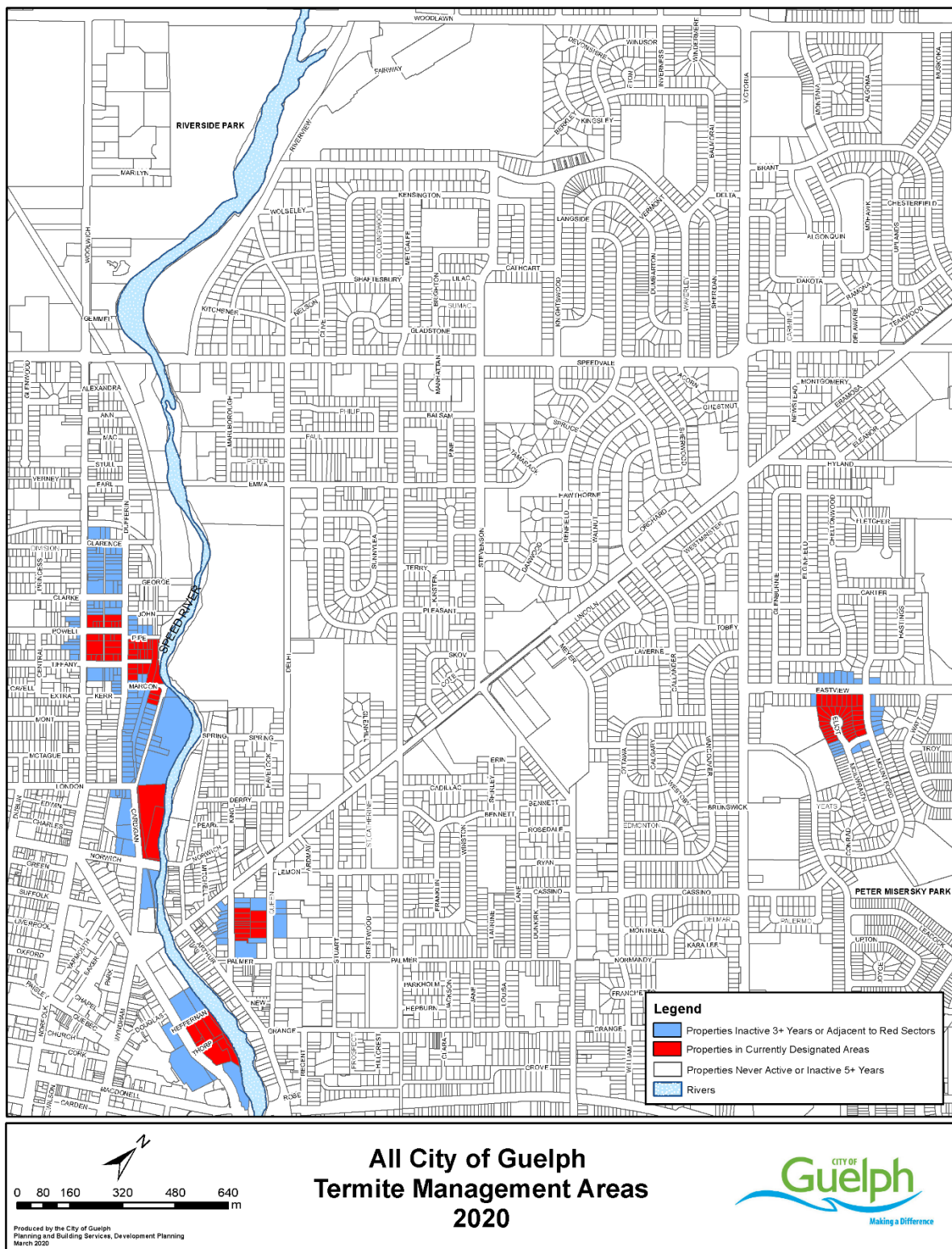


Figure 7. Revised boundaries of the red and blue zones for 2020.

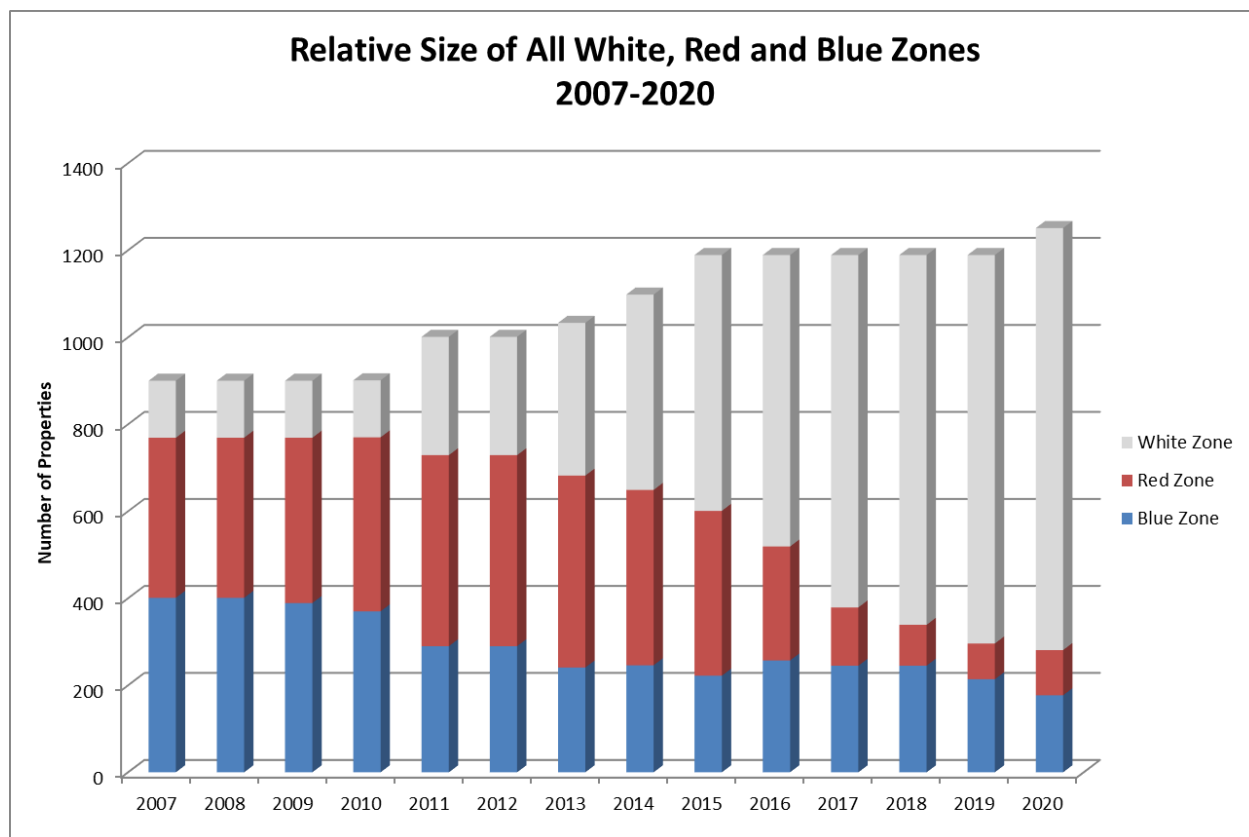


Figure 8. Relative size of all white, red, and blue zones 2007-2020.

Table 1. Properties that Changed Status* Between 2019 and 2020

Windermere Management Area			Woolwich Mngt Area (continued)			Woolwich Mngt Area (continued)		
1	23 Inverness	B --> W	32	22 Clarence	B --> W	67	200 Cardigan	B --> R
2	21 Inverness	B --> W	33	167 Dufferin	B --> W	68	82 Dufferin	B --> W
3	19 Inverness	B --> W	34	165 Dufferin	B --> W	69	76 Dufferin	B --> W
4	1 Windermere	B --> W	35	161 Dufferin	B --> W	70	70 Dufferin	B --> W
5	3 Windermere	B --> W	36	159 Dufferin	B --> W	71	64 Dufferin	B --> W
6	5 Windermere	B --> W	37	157 Dufferin	B --> W	72	60 Dufferin	B --> W
7	7 Windermere	B --> W	38	155 Dufferin	B --> W	73	58 Dufferin	B --> W
8	9 Windermere	B --> W	39	153 Dufferin	B --> W	74	54 Dufferin	B --> W
John Galt Park Management Area			40	151 Dufferin	B --> W	75	50 Dufferin	B --> W
9	123 Woolwich	B --> W	41	148 Woolwich	B --> W	76	42 Dufferin	B --> W
10	117 Woolwich	B --> W	42	446 Woolwich	B --> W	77	40 Dufferin	B --> W
11	115 Woolwich	B --> W	43	440 Woolwich	B --> W	78	38 Dufferin	B --> W
12	84 Woolwich	B --> W	44	436 Woolwich	B --> W	79	28 Dufferin	B --> W
13	15 Douglas	B --> W	45	430 Woolwich	B --> W	80	26 Dufferin	B --> W
14	21 Douglas	B --> W	46	426 Woolwich	B --> W	81	22 Dufferin	B --> W
15	27 Douglas	B --> W	47	424 Woolwich	B --> W	82	16 Dufferin	B --> W
16	John Galt Park (part)	R --> B	48	447 Woolwich	R --> B	83	10 Dufferin	B --> W
			49	443 Woolwich	R --> B	84	8 Dufferin	B --> W
			50	439 Woolwich	R --> B	85	6 Dufferin	B --> W
Woolwich Management Area			51	435 Woolwich	R --> B	86	4 Dufferin	B --> W
17	512 Woolwich	B --> W	52	9 Clarke	R --> B	87	2 Dufferin	B --> W
18	508 Woolwich	B --> W	53	15 Clarke	R --> B	88	23 Dufferin	R --> B
19	504 Woolwich	B --> W	54	19 Clarke	R --> B	89	19 Dufferin	R --> B
20	500 Woolwich	B --> W	55	23 Clarke	R --> B	90	15 Dufferin	R --> B
21	494 Woolwich	B --> W	56	136 Dufferin	R --> B	91	30 Cardigan	R --> B
22	511 Woolwich	B --> W	57	130 Dufferin	R --> B	92	140 Cardigan	R --> B
23	515 Woolwich	B --> W	58	147 Dufferin	B --> W	93	259 Woolwich	B --> W
24	26 Clarence	B --> W	59	143 Dufferin	B --> W	94	255 Woolwich	B --> W
25	30 Clarence	B --> W	60	141 Dufferin	B --> W	95	239 Woolwich	B --> W
26	34 Clarence	B --> W	61	137 Dufferin	B --> W	96	18 Norwich	B --> W
27	182 Dufferin	B --> W	62	131 Dufferin	B --> W	97	20 Norwich	B --> W
28	171 Dufferin	B --> W	63	133 Dufferin	B --> W	98	24 Norwich	B --> W
29	507 Woolwich	R --> B	64	95 Dufferin	B --> R	99	30 Norwich	B --> W
30	497 Woolwich	R --> B	65	23 Cardigan	B --> R	100	34 Norwich	B --> W
31	14 Clarence	R --> B	66	202 Cardigan	B --> R			

* Blue to White = B --> W

Red to Blue = R --> B

Blue to Red = B --> R