



PUBLIC INFORMATION SESSION

Saturday, June 24th, 2017

Waste & Recycling Collection Information Session at 9:30 a.m.

Glen Tay Public School – 155 Harper Road, Perth, Ontario

Gymnasium

ATTENDANCE:

Moderator: Jeff Kohl

Council Members Present: Reeve Keith Kerr
Deputy Reeve Brian Campbell
Councillor Mark Burnham
Councillor RoxAnne Darling
Councillor Greg Hallam
Councillor Judy Farrell
Councillor Jennifer Dickson
Councillor Fred Dobbie

Staff Present: Larry Donaldson, Chief Administrative Officer
Amanda Mabo, Clerk
Stephen Keeley, Public Works Manager
Emilie Richardson, Public Works Administrative Assistant
Chris Fitchett, Clerk's Assistant (Student)

Public: Approximately 350

1. CALL TO ORDER

The information session was called to order at 9:30 a.m.

2. WASTE & RECYCLING COLLECTION PRESENTATION

The Reeve opened the public session with welcoming everyone.

The Chief Administrative Officer introduced himself, Council, the Public Works Manager and the Moderator.

The purpose of the information session was to provide everyone information on the program that is being proposed. Council has not made a decision at this point whether collection will be implemented or not, they are currently looking for feedback from the public.

The Moderator informed everyone that his role was to keep the peace and keep the session on time.

The Public Works Manager gave a PowerPoint presentation – *attached, page 12.*

3. PUBLIC COMMENT/QUESTION PERIOD

Jordan

- would it be possible to have each member of council give a one or two minute talk?
- majority of crowd said no

Sharon Turner

- Sherbrooke Drive on Bobs Lake off of Crow Lake
- live here for five months in the summer and one month in December
- did not find anything out about this until a month ago
- our taxes are twice of what our home is in Calgary
- love living here and have a lovely home on the lake and want to value that
- one of the things they do enjoy is their weekly trips to the landfill
- assume cottages like theirs pays a significant portion of the taxes
- asked that Council listen to the actual customer experience, the customer does not want curbside
- have approximately 35 cottages on their road, most of them occupied all summer; having trouble understanding where everyone is going to put their garbage on Crow Lake Road; there will be bins of garbage, it will be awful
- finances are not everything; do not make any changes
- if this does go ahead how will recycling be placed at the curbside? Will it be in bins? Will it be open? Is that expected to be up to us?

Public Works Manager

- Drummond/North Elmsley (DNE) they use a blue box; Rideau Lakes they use a blue bag
- have not come to a decision about that yet

Bob Pesket

- Lakewood Road in Burgesswood
- is it possible to see a show of hands who is not in favour of this proposal?; majority of people raised their hands
- is there anybody in favour?; little show of hands
- has lived in DNE before moving to Burgesswood and DNE had pickup
- has friends on Coutts Bay Road
- has no knowledge of anyone who is satisfied with pick-up in DNE
- it was a constant battle of keeping the road in shape
- people who lived on his road still did not do it right
- they tried to put their bags out first thing in the morning and the animals still got into it
- he sat out one morning and crows got into it and threw it everywhere
- if the Township goes to garbage pickup it will have messes along the road somewhere or everywhere

Gordon Hill, Christie Lake Association (CLA)

- gave a PowerPoint presentation – *attached, page 24.*
- the Association thinks it is sad that the Township did not inform people and that they learnt about this session through the CLA information
- do not need to fix what is not broke

Mike

- is very concerned regarding the numbers and in the timing to get around the Township
- has there been a study to see if it can actually be accomplished in a 5 day schedule?
- maintenance issues, the trucks may break down; can the Township accomplish pick-up within one week?
- proposing to close dump; have not factored in the cost to close the site, by the Township's own omissions it will cost millions of dollars; is there a full financial accounting of the proposal before it goes to Council next month?
- he is not for or against pick-up, he just wants to see the numbers

Public Works Manager

- the sites are not closed just discontinued
- both sites the Township is proposing to close are half closed now
- \$35,000 a year goes into a reserve for future closing of the sites
- each year the auditor looks at that

Caroline Evans

- informed council that she has a strong opinion and multiple questions that the Township will get in writing
- have said nothing about the future of the Reuse Centre that she believes is important; will it remain open and are people going to use it?

Public Works Manager

- the Reuse Centre is one of the most interesting things Tay Valley has, it is free shopping
- it will not close but may need to be relocated at some point
- have been visited from South and North Frontenac to see if they can open a centre like Tay Valley's

Brian

- Blake Lake Route 11
- the message is that this is going to save money; think of solar panels, etc. the government has sold us on those and we were going to save money, we all know that was a lie
- is a 6 month resident on Black Lake
- issues with many things; if he was a liberal he would be concerned about closing sites and increasing the carbon footprint
- theoretical questions and comments about "everyone else does it so why don't we" he would like to see an actual case study on how this will work
- he will volunteer Route 11 that comes out to the County Road

- everyone calls the County to fix any problems not the Township
- there are seniors
- he would love to see how the Township will have collection on Narrows Lock Road; if the Township can show how collection will work on a small road, with actual details, how it will be picked up and maintained then the Township can look at the longer roads
- it will not work, the costs involved are nowhere near what is shown today
- the Township listened to residents to open the sites on Mondays to accommodate weekends

Brian Johnson

- Blake Lake Route 11
- kept informed and attended the Committee of the Whole meetings and Waste Management Working Group meetings to try and understand facts
- been working with other lake associations
- based their lakes' survey on the CLA survey
- 85% of private roads opposed to facts as were presented to them; only 1 respondent said they were in favour of the plan
- concerned of smell, garbage strewn by animals
- plan closure of Stanleyville; it will not save environment if have to put it in car to put at end of private road so will not reduce carbon footprint
- many on survey would consider pay as you throw
- a compromise, maybe only public road residents have collection but do not even try collection on private roads

Ted Parkinson

- lives in DNE in Maple Glen, has a cottage on Farren Lake
- make sure well in advance before all material is provided to Council that the ratepayers can review it and inform their Council member prior to a meeting
- has a concern; end of private road collection, with dumping at the end of private roads illegally
- is paying less taxes in DNE and TVT than when he lived in Gloucester so keep comparisons in perspective

Pat Fitzgerald – *attached, page 29.*

- Black Lake
- why does the Township even deal with garbage, because it poses a health hazard, want to have health as a primary issue to be considered
- flies, diseases they bring, (has given council a submission), a newspaper called the Gaurdain had an article that stated that dump sites pose a health issue for (dump sites are in Africa), mice, lime disease, will also carry ticks to area

Beth Simons

- McLaren Road in Burgesswood
- it seems to be an either or; there is pick-up or there is not
- is everyone going to have to pay a pay as you throw fee if the Township does not go to collection?
- wants status quo, do not want to get rid of the exchange program
- recycles and garbage, would they be picked up on the same day?

Public Works Manager

- do not know at this point as to whether it will be pay as you throw; it is being considered as one option
- current consideration is that yes recycling and waste would be picked up on the same day; plastics one week and fibres the next week

Jondi Cheery

- McLaren Lake
- what changes humans need to make, know that water is being taken from the great lakes, taught to value wilderness and extend, take in, take out
- as a seasonal dweller she takes garbage out and back to the city
- need to start thinking about enjoyment living
- do what's right for Tay Valley
- be true leaders, do not do something just because others are doing it

Brook Briggs

- Christie Lake
- long-time resident
- concerned that Bill 151, sounds better than what return the Township will get
- disappointed that Council accepted staff's recommendation from staff regarding waste
- also disappointed that Township would not accept debris and waste from recent flooding damage
- propose that a private contractor be approached to conduct collection
- explore possibly of opening up old waste sites to use as collection points

Bob Munro

- MacKay Line Road
- going to be a lot harder for older folks to get a bag of garbage down their laneway in a snowstorm than to the dump
- no advantage to collection
- what percentage of our present taxes goes to Waste Management?

Public Works Manager

- 13% of municipal taxes goes to Waste Management
- does not include the Public Works Managers or the Administrative Assistants time
- collection would be a wash as the increases to provide collection would be covered off by the \$50 per household

David

- Scotch Line
- cost of recycling would eventually be passed on to producers so there would be basically no cost to residents
- if you pass on this cost they will pass it on to the consumer and the costs of the products go up
- neighbours across road have pick-up, he ends up doing collection, it ends up on his property
- do not do it

Steve Stewart

- belongs to Kiwanis
- collect alcohol bottles at waste site
- do not want to see this disappear as the money collected goes back into the community

Dan Murphy

- Kenyon Road, Burgesswood
- thousands of dollars have been spent across the province to protect waste sites from critters, now the Township is opening it up everywhere in the Township
- it is not broke do not fix it
- people can do garbage themselves

Carline Rouse Watson

- cottage on Rouse Road on Bennet Lake
- any consideration given to those in wheelchairs and are trying to get to somewhere at the end of a road to throw out their garbage; where will garbage go? Right beside the mailbox, what a smell when getting the mail

Neil Kelly

- cottage on Farren Lake
- during deliberations has the Township at any time sought input from an accredited public health official?

4232 Scotch Line

- against for all the reasons mentioned
- looking to improve the waste sites
- would like to see improvements to the Household Hazardous Waste instead of driving to Middleville
- would like to see more transportation options
- thanked Council for listening today

Lady

- observation, hardly anyone at this session under the age of 50
- concern is that there is a demographic missing
- if have a young family with young teenagers they will produce more garbage and may not be able to afford collection
- was chair of a Local Health integrated network

- it is very important to recognize the needs of those who get older
- need to look at the health implications
- from demographic point of view how is the Township going to prevent people from injuring themselves

Kyla Hailey

- Colin Farmer Road
- share concerns already mentioned
- if the Township is not to able start collection now, is it true that the Township may not be able to take advantage of it in the future?
- in agreement with collection

Pat

- Little Silver Lake
- concerned that the Township is not going to be listening to the public because this is not complete; it would have been if a few people had not put a stop to it

Jim McCann

- 9th Concession of Bathurst
- opposed
- there will be an election and Council can be replaced

Doug Campbell

- Adam Lake
- has the Township looked at intentional non-compliance?
- trucks still have to run the route even if people do not use the service; will this increase costs as they are using the waste sites? Something to look into

Cottage on Bennett Lake

- what percentage of the 130 million dollars does Tay Valley get?

Public Works Manager

- Tay Valley gets in between \$45,000 and \$96,000 a year currently
- this amount fluctuates depending on the DataCall equation
- if costs are higher for collection there is the potential to obtain more revenue
- there is a cost, tonne and best practice factors

Dan Patterson

- Highway #7
- any consideration for safety concerns on Highway #7?
- already lost mail delivery since it was too dangerous for Canada Post to deliver mail so what about Township staff safety?

Al

- Pike Lake
- private road
- against; high risk, low payback

Moderator

- for some people it is considered a higher level of service

Angela Pearman

- live on Black Lake
- congratulate the Township on how well the session was set up today
- need to take three factors into consideration; environment, community, money
- if go back to demographics, there are people who are here today who are retiring or trying to save money so if this is put into place what is going to happen?
- what is going to happen if the current system stays in place? what is the cost into the future? versus the \$50/year for collection.
- which system is cheaper?
- when it comes to money Council needs to take into consideration costs for environmental, compliance costs with blowing garbage, lower incomes of seniors, community
- Tay Valley has a strong base, her kids enjoy Paul's Emporium

Public Works Manager

- if things stay the same, other than inflation, there will not be any large increases in costs

Otty Lake Side Road

- Little Silver Lake
- commute to Ottawa, people are now wrapping their garbage in blankets
- more work for staff
- snowplows do hit the garbage; cannot see in a snowstorm
- recycles, waste diversion, do not see in any of the plans, how has waste diversion prolonged the life of the dump?
- want to see the cost accounting and the advantages
- maybe should just put in a new landfill
- concerned that in future will move from 2 to 4 to 6 trucks

Bolingbroke

- have 1000 bag tags, wanted to know what he can use them for now
- is he going to get charged for them as he has already paid for them?
- has never used a bag tag

Dave McWhirl

- cottage on Pike Lake, reside in another Province
- has Council gone out on private roads to see what kind of shape they are in? Are they expected to put the garbage across from the Cemetery?

Chief Administrative Officer

- due to the number of private roads in Tay Valley it does make collection a challenge and Staff and Council realize that
- the Township has looked at all of these things and are aware of them
- the Township understands the point of public versus private roads

Moderator

- assuming that if there would ever be a roll out of pickup the Township would work with each private road group to work something out

George Willet

- private road
- what amount of refund is the Township expecting to get from the circular economy act?
- it will be more than \$50 per household, everyone is going to have to buy some sort of garbage container with a raccoon proof lid
- it will be quite difficult for people on private roads to put their bag in a large garbage can
- every weekender takes their garbage with them

Black Lake

- permanent resident
- trucks were ordered and then cancelled
- did Council approve the purchase of the trucks?

Chief Administrative Officer

- as part of the discussion that came forward to Council, one of the first things that needed to be done was staff prepared tenders for the trucks
- the trucks were never ordered and therefore never purchased

Bill

1629 Christie Lake Road

- get all the fast food containers in the ditches since only 6 miles from town
- how much has the Township laid aside for employees to go around to all the dump sites and pick up the garbage?

Moderator

- live in Dewitts Corners
- not taking a position
- there are approximately 270 people here which is just under 7% of the Township's population
- look around the room to see who is here and who is not here, just consider that there are other viewpoints from those that are not here

Chief Administrative Officer

- on August 1st a summary of the public comments and surveys will be provided to Council
- after that Council will be making decisions and the public will be notified of a subsequent date

The Reeve thanked everyone for coming out.

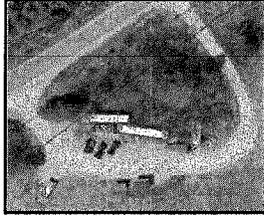
4. ADJOURNMENT

The Information Session adjourned at 11:57 a.m.

WASTE & RECYCLING COLLECTION PRESENTATION

Waste & Recycling Collection Information Session

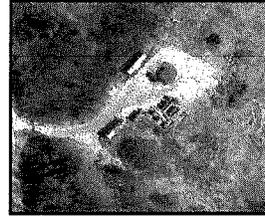
Saturday, June 24th, 2017



Maberly



Glen Tay



Stanleyville



Welcome



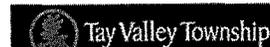
Agenda

- Welcome
- Presentation
 - Why Collection now?
 - Regulatory Framework
 - Changes to and the Future of Operations
 - Waste & Recycling Collection
- Survey
- Next Steps
- Public Comment\Question Period



Why Collection Now?

- In review of current operations staff discovered Waste & Recycling Collection was worth investigation
- Collection is a service provided in Rideau Lakes Township to the south and Drummond North Elmsley Township to the east as well as other local rural municipalities
- Council proposed offering this service to residents based on recommendations from the Age Friendly Survey and comments made to staff
- Now is the time because of the Recycling Management changes at the Provincial level



Regulatory Framework

- Environmental Protection Act (1990)
- Ontario Regulation 232/98
- Bill 90 – Waste Diversion Act (2002)
- The evolving tonne:
 - newsprint once 80% of tonnage is now less than 25% and 10% in rural areas
 - new package formats – light weighting – lifestyle
 - fiber evolution – home shopping
 - internet deliveries in Old Corrugated Cardboard (OCC)
- Bill 151 – Waste Free Ontario Act (2016)



Regulatory Framework

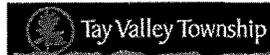
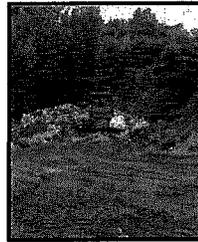
- What does this mean for municipalities?
 - Bill 151 → The Waste Free Ontario Act states that producers will have to pay 100% of the collection costs of their materials instead of the less than 50% that they currently pay
 - Each municipality would need to negotiate with the producers in order to receive 100% reimbursement from the producers.
 - Eastern Ontario Coalition (high percentage have waste & recycling collection)

***Continuous Improvement Fund and Association of Municipalities of Ontario strongly advise to
"Know your Costs"!***



Operational Changes to Date

<u>Glen Tay Changes</u>	<u>Savings Per Year</u>
▪ One Day Waste Cover	\$8,700
▪ Compactor Fully Utilized	\$8,800
▪ Increase C&D Revenue	\$24,000
▪ Monitoring and Engineering	\$25,000
TOTAL SAVINGS	\$66,500/year



Proposed Operational Changes

- Sale of organic composters
- Compactor purchase and installation
(second compactor = no open bin = cost savings)
- Easier recycling - change to 2 stream from 4
 - ↳ fibers (cardboard/paper)
 - ↳ containers (plastic & glass containers/cans)
- Reduction of Bag Tags issued per household 40-30-20-10 →
elimination of waste/blue box exchange program
- Shingle diversion
- Ramp improvements



Municipal Collection Options

- In-House
 - reallocation of personnel
 - purchase of trucks and containers for waste site and/or modify compactors
 - flat rate as low as \$50/year per household
- Contracted Out
 - compactor trucks dump directly onto site = required to cover each day instead of once per week (increased cost)
 - flat rate for each household - Drummond/North Elmsley (\$127/household)
 - less flexibility to alter service as program matures
 - contractor responsible for staff, vehicles, maintenance and repairs



Potential Collection Costs

- Waste & Recycling Collection
 - Truck Cost Example @ \$140,000/truck
 - Loan Repayment (10 years) \$18,000/year
 - Depreciation (10 years) \$14,000/year



TOTAL \$32,000/year per truck

Note: after 10 years payment drops to \$14,000/year

- reserves take over the re-purchase
- loan no longer needed



Potential Collection Costs

Collection

▪ Purchase of two trucks	\$64,000/year
▪ Waste Site Bins or Compactor Modifications	\$15,000/year
▪ Operating costs (repair, fuel and insurance)	\$42,000/year
▪ Increased Labour	<u>\$50,000/year</u>
TOTAL	\$171,000/year



Potential Collection Cost Recovery Options

- **Collection – Flat fee**
 - As low as \$50.00 per household

OR

- **Collection – Pay as you Throw**
 - \$2.00/bag



Public Concerns About Collection

- **Animals**
 - other rural municipalities have collection and have mitigated issues
 - address by setting out waste & recycling on the morning of collection
 - placing waste & recycling in a container (ex. garbage can)
- **Pick-Up Point for Private Roads**
 - proposal is to start with pick-up at the end of private roads in a designated area as is done in Drummond/North Elmsley and Rideau Lakes without municipal bins



Collection Options

- **The initial proposal would be that waste and recycling will be set out on the morning of collection days by:**
 - permanent residents on public roads
 - permanent residents on private roads
 - seasonal "summer" residents

 - seasonal "weekenders" and those who cannot set their waste & recycling out on the morning of collection day can take it to the Glen Tay Waste Site
- **Collection routes may be expanded in the future**
 - expansion on a case by case basis



Why is Collection Possible?

- Reallocation of Personnel
 - suspend operations at Stanleyville & Maberly Sites
 - Glen Tay open Saturday, Wednesday & Sunday, Monday in the Summer
 - 2 employees 2080 hours/year on trucks
 - 2 employees 1500 hours/year at Glen Tay
 - 0.5 employees as required

- For a 1500 to 1700 hours per year increase in operator time we could consider collection.

- Alternately at Status Quo - all sites remain open - to consider collection would be an additional 4200 hours.



Potential Collection Summary

- Collection is proposed to provide a higher level of service to residents
- Collection would put the Township in the best position to take advantage of the Provincial change to a Circular Economy for waste management
- Costs could be covered by a pay as you throw system **or** a flat fee of approximately \$50 per household
- Collection would be on Public Roads
- It may progress from there as the program matures
- Now we have the opportunity to get your input



Survey



Township Survey

- Available at the Municipal Office or on the Township Website
- Hard copies are available at today's Information Session
- Deadline to submit – July 20, 2017 at 12 Noon
- Council will use feedback from the survey to guide their decisions



Next Steps



Next Steps

- August 1 – Committee of the Whole Meeting
 - survey responses will be summarized and brought forward
 - Council will determine whether to continue with investigating the implementation of collection or not



Next Steps

- If Council decides to proceed with investigating implementation of collection the following will be required:
 - Further study into collection
 - routes – Provincial, County, Municipal and Private
 - in-house versus contracted
 - no collection
 - Investigate other varieties of collection trucks
 - transport recyclables directly to material processors
 - Develop agreements with local material recovery facilities
 - Renfrew, Kingston, others
 - Pay-as-you-throw or flat fee
 - pay for amount of waste you dispose of
 - recyclables remain at no charge

Public Comment/Question Period

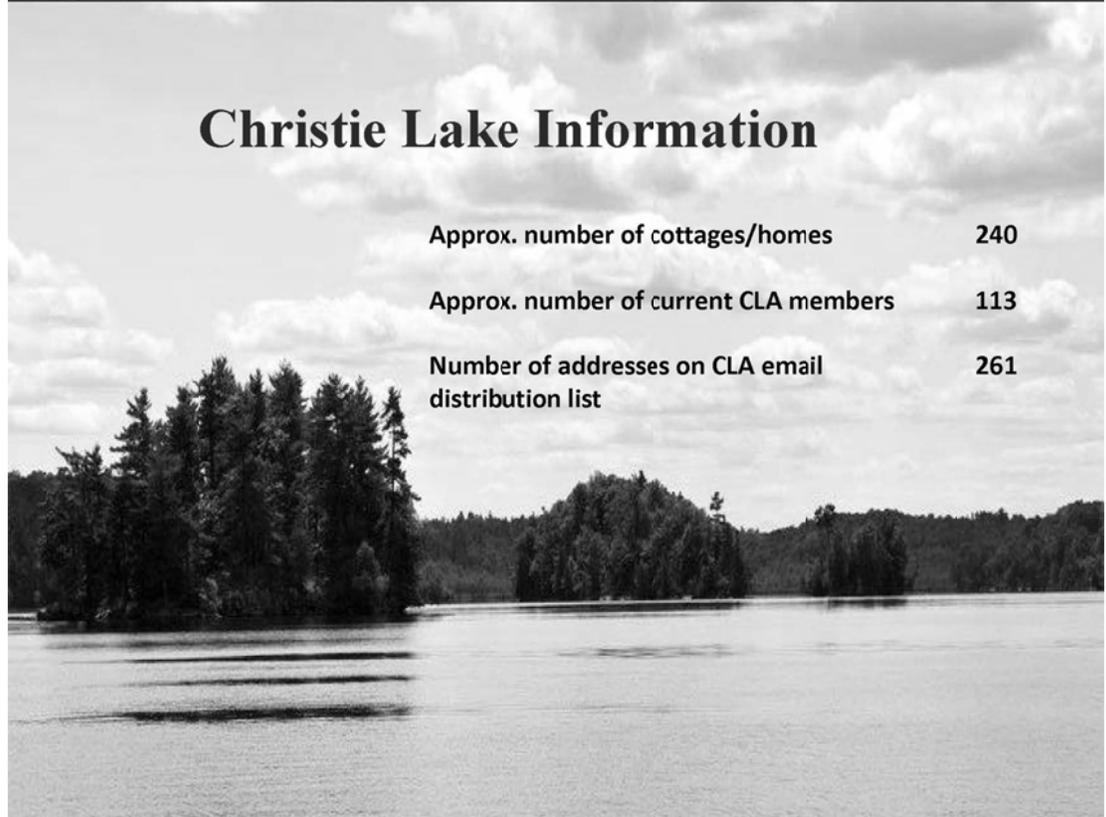
PUBLIC COMMENT/ QUESTION PERIOD



Christie Lake

home to

Christie Lake Association Inc. ("CLA")



Christie Lake Information

Approx. number of cottages/homes	240
Approx. number of current CLA members	113
Number of addresses on CLA email distribution list	261

Collecting Comments from Christie Lake Residents

On May 26, 2017 CLA circulated a memorandum of background information and a survey. Reminder sent June 16th

As of 10:00 pm on June 21st, CLA had received 92 completed surveys

Response rate: 35%



Survey Results

	No. of Replies (n = 92)	Percentage of Replies
Q 1 Type of road on which your property is located?		
Private Road	80	87%
Township/County road (i.e. public road)	12	13%
Q 2 When did you first hear of TVT's plan for Roadside collection?		
From CLA's emails dated May 26 or June 16,2017	56	61%
From elsewhere within the last 2 weeks	5	6%
From elsewhere within 2 to 4 weeks	15	16%
From elsewhere more than 1 month ago	16	17%
Q 3 Do you support TVT's plan as represented in the CLA memo of background info?		
Yes	2	2%
No	86	93%
Not sure	4	5%
Q 4 Is the current TVT recycling program a benefit to our community?		
Yes	90	98%
No	2	2%
Q 5 Is the TVT Reuse Centre a benefit to our community?		
Yes	90	98%
No	2	2%
Q 6 Do you expect to continue to frequent the Reuse Centre if prohibited from taking household waste and recyclables to the Glen Tay waste site?		
Yes	17	18%
No	75	82%

What Christie Lake Residents Want

To maintain the status quo:

1. To be able to take household waste and recyclables to the Glen Tay waste site
2. To keep our roads, both public and private, as pristine and litter free as they are today
3. To obtain info and assistance from onsite waste management staff regarding allocation of recyclables and/or lift of heavy bags or items
4. To keep cost at a level equal to or less than the current cost level
5. To be consulted **prior to** making significant changes in any of TVT's activities. TVT Councillors are our representatives.



What Residents Don't Want

According to comments made on the CLA survey, many which were heated, Christie Lake residents **do not want**:

1. Garbage collection at the intersection of public roads and private roads.
Our residents' concerns include potential for:
 - a) ugly piles of garbage awaiting collection for up to 8 hours, one day per week;
"We have a beautiful, tourist friendly area. Let's keep it that way";
 - b) litter scattered in ditches and along roadways. "The township is already littered with roadside garbage, for example there are 9 bags of garbage on Elliot side road, (some unopened, some opened with scattered garbage all around the area.) The Township has been notified about this issue numerous times without resolution of the problem.";
 - c) putrid odors;
 - d) attracting animals which may feast on household waste and scatter litter;
 - e) attracting animals that may pose a threat of injury to children waiting for a school bus, or subject residents to fear of injury;
 - f) attracting animals that may pose a threat to traffic and themselves;
 - g) persons leaving garbage illegally (e.g. construction waste, sofas, electronics, etc.) at those intersections
 - h) vehicular traffic concerns;



**Drummond North Elmsley: Mississippi Road & McCreary's Landing
June 11, 2017**



2. to be prohibited from taking household waste and recyclables to a TVT wastes site;
3. a waste management system which forces different levels of service on TVT residents;
4. a waste management system which turns out to be more expensive than the system now in place which works well;
5. per bag charges which may encourage illegal dumping;
6. “No need to fix what ain’t broke.”



Pictures on this page were taken on Freeman, Bush and Smith Roads in Rideau Lakes Township around mid to end of April 2017 and are provided courtesy of a resident of Rideau Lakes Township

Suggested Compromise

A hybrid waste management system which would allow:

- 1. Christie Lake residents to take household waste and recyclables to the Glen Tay waste site; and**
- 2. Those living on public roads to elect to receive roadside pick-up, provided that the overall cost to TVT taxpayers for such a system is substantially similar to, or less than, that set out in the 2017 TVT Budget**



Presentation on Health Concerns of Proposed Changes to Waste Collection
To the Waste & Recycling Collection – Public Information Session, Tay Valley Township
June 24, 2017

Recent reports on proposed changes to waste disposal for Tay Valley Township make no mention of significant health concerns that may result. Report PW-2017-11, option 1, states that residences on private roads in Tay Valley will be serviced for garbage pickup on Mondays, except during holidays. It states that the pickup sites for private road residents will be near the intersection of private and serviced roads.

There are numerous private roads in Tay Valley Township providing access for many year-round and seasonal residents. For example, a quick scan on the official plan indicates that there are over 60 lots along the private roads of Black Lake North Shore and West Bay Drive at the northwest corner Black Lake alone. Assuming one bag or bin per household during a busy summer weekend, it's possible that there could be 50+ bags of garbage attracting bears, raccoons, mice and flies on a Sunday night, 50 bags of garbage with contents possibly strewn by Monday morning.

Attracted to garbage, flies carry disease and "increase the risk of you contracting with salmonella, which causes typhoid fever, food poisoning, enteric fever, gastroenteritis, and other major illnesses."¹ Of particular concern for Tay Valley residents though is a disease carried by mice, Lyme disease.

Mouse populations are attracted to and thrive near garbage, an abundant source of food. "Long-term research shows that white-footed mice are the critical hosts for black-legged ticks, which carry and spread the bacterium that causes Lyme disease. Superabundant mouse populations allow more ticks to survive and lead to predictable spikes in human Lyme disease exposure."²

Mice are also very effective carriers of Lyme disease.

"(Felicia) Keesing and (Rick) Ostfeld, who have studied Lyme for more than 20 years, have come up with an early warning system for the disease. They can predict how many cases there will be a year in advance by looking at one key measurement: Count the mice the year before. ... The explanation is simple: Mice are highly efficient transmitters of Lyme. They infect up to 95 percent of ticks that feed on them. Mice are responsible for infecting the majority of ticks carrying Lyme in the Northeast. And ticks love mice. "An individual mouse might have 50, 60, even 100 ticks covering its ears and face," Ostfeld says."³

¹ *Overflowing garbage bins: 5 impacts on health and environment and how to prevent*
<http://ecubelabs.com/blog/overflowing-garbage-bins-5-impacts-on-health-and-environment-and-how-to-prevent/>, **Matti Juutinen**, ECube Labs, July 8, 2016.

² **Cary Institute for Ecosystem Studies** <http://www.caryinstitute.org/science-program/research-projects/lyme-disease>.

³ *Forbidding Forecast For Lyme Disease In The Northeast*
<http://www.npr.org/sections/goatsandsoda/2017/03/06/518219485/forbidding-forecast-for-lyme-disease-in-the-northeast>,
Michaeleen Doucleff and Jane Greenhalgh, NPR, March 6, 2017.

Picking up garbage strewn in an unsupervised pickup site poses a health hazard to waste collection staff and volunteers. Garbage attracts various vermin and bacteria that may infect garbage pickup personnel. As well, needles and hazardous waste may be improperly disposed of and can pose a hazard at these sites.

Here is what The Guardian newspaper had to say about unsupervised garbage sites: "They are poorly managed, if at all, without any controls on materials accepted or records kept, and no security. ... In this sense, dump sites pose significant health and environmental threats both to the people involved in the operations and to the wider general public living close by."⁴ The Guardian was referring to landfills *in Africa*. Still there are similarities to what can be envisioned at the end of our private roads.

I will not expose myself or members of my family to the additional health hazard posed by these informal dumps. If Option 1 is implemented, there will be no alternative for private road residents other than to dispose of waste at these informal dumps. If other Tay Valley Township residents feel similarly, this change represents a significant reduction in municipal service for private road households. I would respectfully ask the Township to include the risks of the proposed garbage collection changes in its reports and ask Council to consider these risks in its decision-making.

Respectfully submitted by Pam FitzGerald
(613) 267-2278, pam.r.fitzgerald@gmail.com

⁴ *Smelly, contaminated, full of disease: the world's open dumps are growing*
<https://www.theguardian.com/global-development/2014/oct/06/smelly-contaminated-disease-worlds-open-dumps>, John Vidal, The Guardian, October 6, 2014.