

Waste Audit of the Great Hall in the Student Life Centre

ERS 317

April 1, 2005

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1.0 INTRODUCTION:

1.1 Research Question:

How does the Tim Horton's in the Student Life Centre (SLC) contribute to the amount of garbage in the Great Hall and how can the waste be managed in a more sustainable manner?

1.2 Purpose:

The purpose of this research project is to determine how the waste from the Tim Horton's in the Student Life Centre influences the amount of garbage that is collected in the Great Hall. The results of our waste audit will determine the conclusions that we develop. We hope to come up with solutions that will allow the garbage to be disposed of in a more sustainable manner. If this is achieved then our ideas can be implemented in a larger scale on campus in relevant areas.

The purpose of choosing the Great Hall in the Student Life Centre was because of the manageable amount of garbage and the existing physical boundaries allowed it to be separated from other areas of the Student Life Centre. As well, the Great Hall is located in close proximity to the Tim Horton's. The amount of garbage allowed for a reasonably large sample to give valid and reliable results while allowing the amount of garbage to be managed without a lot of difficulty.

1.3 Objectives:

Our objectives were to:

- Determine the amount of Tim Horton's garbage being disposed of in the Great Hall compared to other garbage.
- Determine if Tim Horton's garbage was being disposed of properly. For example we

wanted to see if recyclables were thrown in the garbage.

1.4 Limitations:

The limitations that we faced during this waste audit were the time allotted and the boundaries that we placed on the project in order to keep the project manageable. We only allowed for one week of collection of garbage for analysis. During this time there could have been an increase of events or a lack of events that would have skewed the results from a more in-depth analysis. As well, we had decided to count the pieces of waste rather than weighing it. This made it difficult to compare the results to previous studies.

1.5 Assumptions:

There are a few assumptions that had been made commencing this project. We assumed that there was a great increase in the amount of garbage that was collected in the Great Hall of the SLC as a result of the new Tim Horton's. We also assumed that it was possible for Tim Horton's to change the way they manage their waste in cooperation with the SLC.

2.0 METHODOLOGY:

The first step in beginning this project was deciding the particular approach that would be taken. The approach that was chosen was deductive (or a "top-down" approach) which begins with constructing a research question followed by the data collection (Palys, 2003). The data that has been collected will hopefully help answer the proposed research question (Palys, 2003). Through triangulation three methods were used which are described below.

2.1 Triangulation:

In order to achieve triangulation three separate methods were created in order to gather data. The different methods that have been used are the following: a waste audit, informal interviews with key informants, as well as a review of literature. Triangulation helps ensure that the project will have both breadth and depth by supplying it with a more diverse background (Palys, 2003).

2.1.1 Waste Audit:

A waste audit was performed each day throughout the week of February 7th to February 11th 2005. The waste audit provides the majority of primary data to the project. The Great Hall area in the SLC was chosen as the area to sample, each day approximately five to six bags of garbage were sampled. Before this waste audit commenced, permission was sought from Roland Mueller (custodian at the SLC) to be able to conduct the waste audit. Roland agreed to place the garbage from the Great Hall in the SLC loading bay located in the basement for the week of the waste audit. The waste audit was an attempt to determine exactly how much of the total amount of garbage from the Great Hall was made up of Tim Horton's garbage. The garbage was divided up into two separate piles (Tim Horton's and non-Tim Horton's) and each piece of garbage was counted from both piles. The Tim Horton's garbage was sorted further into its specific type of garbage (cups were sorted into one pile, sandwich wrappers were sorted into another, etc) and counted (please refer to appendix #1 for further detail). Even though the waste audit was only conducted Monday to Friday, weekend garbage was still accounted for. On the Monday (February 7th) the garbage was emptied

twice (once in the morning and again in the afternoon). The morning garbage was the garbage collected over Saturday and Sunday and the afternoon garbage was solely from Monday. All data from the waste audit was recorded initially by hand, but then later transferred into Excel (a spreadsheet program) for further analysis. A variety of tools were used for the audit. A large tarp was used to cover the cement floor in the loading bay so that the garbage could be emptied on the ground. Gloves were worn by all participants and tongs were used for sorting the garbage into piles.

2.1.2 Literature Review:

The second method was a literature review. The majority of the sources for this method were mostly drawn from websites, past WATgreen projects, and various articles from student newspapers. These resources aided in providing background information and possible recommendations that could be utilized in the discussion of the paper. The key objective of the literature review was to discover ways of reducing waste and possible alternatives that could be sought by Tim Horton's to reduce their waste. The different sources discuss everything from the Tim Horton's coffee contest (Roll up the rim) to the history of waste management at the University of Waterloo.

2.1.3 Informal Interview:

Informal interviews have been used to gather further data. Roland Mueller was contacted and informally interviewed. He is one of the main custodial staff who works in the SLC at the University of Waterloo. He was interviewed the week before the waste audit commenced. He acknowledged that the waste in the

Great Hall was in fact a problem. He said that he has noticed an increase in the amount of garbage since the Tim Horton's was introduced into the SLC. Roland also believed that the majority of the trash from Tim Horton's was mostly paper cups.

Also the week before the waste audit began; Patti Cook was contacted and informally interviewed. Patti is the coordinator of waste management for the University of Waterloo. She contacted Roland for the group and helped set up an interview time. Patti gave suggestions for possible focal points for the project as well as various ideas that could be implemented into the project. She was also aware/recognized the fact that there was a problem with an increase of garbage in the Great Hall and believed that it could possibly be linked to Tim Horton's.

2.2 Site Description:

The site that was chosen for the waste audit was the Great Hall in the SLC. This site is a large open-spaced room with tables and couches. Around the perimeter of the room there are six large garbage cans. There are recycling bins located throughout the Great Hall; however they are not located in the same area as the garbage bins. The Great Hall is one of the more popular rooms on campus where students tend to spend time. Since the opening of the Tim Horton's in the SLC, the head custodian, Roland Mueller noticed a considerable increase of trash in the garbage cans and on the tables around the room. Because of this observation it was decided to conduct a waste audit to determine exactly how much of the garbage originated from Tim Horton's.

2.3 Reliability/Validity

This project is both reliable and valid. It is reliable because the waste audit samples were taken over a period of a week and were fairly consistent. Also, the use of more than one method adds to the reliability of the data gathered. The data that was collected is valid because Tim Horton's garbage was counted and compared to the total amount of garbage, which specifically relates to our research question. All the primary data that was collected was done by the researchers and was collected in order to observe exactly how much Tim Horton's garbage contributed to the total SLC Great Hall garbage (Palys, 2003).

3.0 LITERATURE REVIEW:

Coffee contest leads to trash talk.

This article discusses the environmental concerns that have to do with Tim Horton's coffee cups. A study done in Nova Scotia in 1998 showed that Tim Horton's disposable coffee cups made up more than twenty percent of the province's litter. "With so many people playing the "roll up the rim to win" contest, some people worry more cups are ending up in the streets and in landfills" (CBC News, 2005).

There are possibly more creative ways of having the contest without that would help to reduce the waste and littered cups. There are many customers that believe that Tim Horton's should sell compostable cups to deal with the litter problem. Tim Horton's defends itself, saying it works with many groups doing community cleanup and encourages people not to litter (CBC News, 2005).

The Tim Horton's in New Brunswick has found a recycling plant that's able to deal with the litter problem. "We run [the cups] through our dry plant and recycle them

with our boxboard," said Bill Slater, with the Westmoreland Albert Solid Waste Corporation in Moncton. Slater says the process has led to a big decrease in litter since the program began two years ago (CBC News, 2005).

Reducing the Use of Disposable Cups on Campus A Case Study at the Tim Horton's in the Modern Languages Cafeteria

This project explored the reasons why people choose to use disposable Tim Horton's cups over bringing their own mug in and getting a discount. Students were aware that along with the use of the disposable cups came some very negative environmental effects. It was also discovered that many people were unfamiliar with the cost savings when using a reusable mug at the Tim Horton's and 75% of the people that didn't know said that this knowledge would affect their choices. That is why it was decided to put up signs indicating the cost savings throughout the Modern Languages cafeteria (Hewitt, 1996).

It was then found that these signs only marginally increased people's knowledge of the cost savings, but this could have been because the signs were ineffective or because they were continually taken down by janitors. Another problem was that Tim Horton's Roll-up-the-Rim campaign was going on at the same time, increasing the number of people who used disposable cups instead of reusable mugs (Hewitt, 1996).

How far would you go to Recycle: A comparison study of the recycling systems of Beck Hall and Mackenzie King Village residences of the University of Waterloo.

This project looked at the two different recycling systems at Beck Hall and Mackenzie King Village to determine the students' response to the recycling operation

based on convenience. It was determined that the recycling system for Mackenzie King Village was far more convenient for the students than the system that had been implemented at Back Hall. This project simply relates to our project through the means of proving that it would be possible to get students to recycle more if a proper plan was implemented for the area in question (Danald, 2003).

Imprint: News (Friday, November 15 (Volume 19, Number 18)) Campus mugging
by Emily Pascual, **special to Imprint.**

This article discusses the “lug-a-mug” program which was first introduced in 1989. This article is from 1996 where the Student WATgreen Network (SWN) tried to get students to join the program by choosing to use their own mug instead of a paper cup (Pascual, 1996).

REDUCE REUSE REPAIR REFUSE RETHINK RECOVER
What You Can Do!

This site has many suggestions for reducing waste, but the ones that apply to food and food containers are: use food compost programs, use your own mug or lug-a-mug, and to replace single-use disposable cups and plates and cutlery with reusable items. The food compost program would be beneficial of course for Tim Horton’s because ideally no food would be sent to landfills when it can obviously be composted. However, there was not enough food compared to other items that are of greater concern. The Tim Horton’s in the Student Life Centre does not ask students if they would like their food and beverages for here or to go. Instead everyone is given disposable packaging. Perhaps Tim Horton’s should make an effort to use less one time use packaging and promote the use of reusable items to serve their food. Either way the Tim Horton’s, as well as other

coffee shops on campus, should promote the idea of the lug-a-mug program and not simply support it (UW Waste Management, 2000).

This site also discussed some ideas for future waste audits. It was suggested that a combination of both a visual and detailed audit would provide valuable information and would allow for direct comparison with existing data. As well it mentioned that future waste audits should be conducted in functional areas on campus (UW Waste Management, 2000).

There are many possibilities to change the way Tim Horton's is operating on campus. Perhaps if one Tim Horton's can change its ways, then others will follow (UW Waste Management, 2000).

Recycling Statistics.

This website provides reuse and recycling statistics by year and total weight in tones. This site is useful because we can observe what sorts of things that are recycled and how much of it is recycled depending on the market and the habits of students and faculty. "Recycling is one method of reducing our solid waste going to landfill. But it also encourages the markets for manufacturing to reuse materials in the manufacture of products. By using recycling materials, the manufacturing process uses less raw materials, less water, and less energy" (University of Waterloo, 2000)

HISTORY OF WASTE MANAGEMENT AT THE UNIVERSITY OF WATERLOO

This article discusses how waste management at the University of Waterloo began. "The Report provided an inventory of what was occurring on campus at the time

in regards to garbage, recycling, transportation, hazardous waste, water, energy, food and purchasing.” Recommendations were made and since then there have been huge changes on campus. This proves that change can be made as long as the information is presented and there is incentive for the University to change. Perhaps our report on the waste at Tim Horton’s will help our campus come one step closer to reducing the waste that it produces (University of Waterloo, 2000).

Waste Reduction at Source: University of Waterloo's Food Services as a case study.

This group implemented the use of reusable totes to transport bagels from the supplier to the food outlets on campus. (Prior to this plastic bags and boxes were used.) The system turned out to work very well with projected cost savings of \$3000 per year. This project also provided ideas for other potential savings with other products and its ideas to create a great relationship between supplier and customer in saving costs (Beaulieu, 2000).

Reducing Waste at the Math and Computer's Coffee and Donut Shop

This study determined that by increasing the availability of reusable cups, by educating patrons of the dangers of disposable cups and “through the simplification and adjustment of the Right Angle Cafe's current pricing structure, positive change can be made towards the reduction of harmful wastes on campus, thus promoting overall sustainability” (Hewitt, 1996).

Sustainability at U of G.

This site provides many ideas on waste reduction, composting and recycling. It discusses the benefits to students that decide to use their own mug. E.g. they can use any

size mug and only get charged for a small. This means that students would save 25 cents every time (University of Guelph, 2000).

OPIRG Waste Reduction Working Group Waste Awareness Survey March 30, 2001

This is the site of a survey that was conducted at the University of Guelph to get an idea of the student's knowledge and attitude with regards to waste reduction. It showed that the reason why the majority of students did not recycle properly was because they either did not understand the system or it was not convenient to recycle. Another question had to do with whether or not students would use their own dishes on campus. Many said yes if they received a large discount on their meals; others thought it to be possible if they had Tupperware (University of Guelph, 2001).

Where Kermit went wrong: sustainability 101 Rebecca Temmer - Imprint Staff

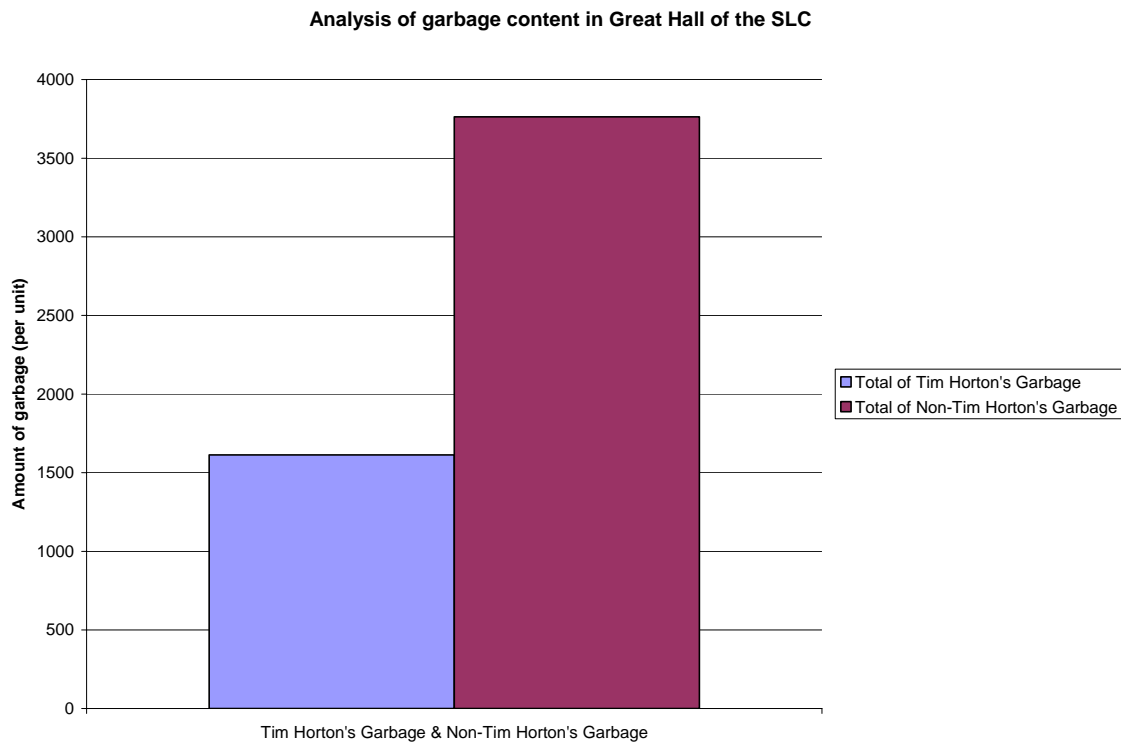
This article discusses sustainability and ideas in order to help promote a more sustainable society. A couple of suggestions were once again the lug-a-mug idea and secondly reducing the waste that is given out at Tim Horton's for example the comment "Do you really need a bag for your bags?" (Temmer, 2005).

4.0 RESULTS FROM WASTE AUDIT:

The data that was gathered from the one week audit clearly displayed that there was a substantial amount of Tim Horton's waste in the Great Hall garbage cans. The results from the waste audit also helped to answer the proposed research question set out at the beginning of the project and in the identified objectives. The following paragraphs will go over the details as to what was found during the waste audit and the conclusions that were drawn from the findings.

Over the period of the audit week 5375 pieces of garbage was counted which included both Tim Horton's and non-Tim Horton's garbage. Out of that total, 1612 pieces were from Tim Horton's and 3763 pieces were non-Tim Horton's garbage. Figure 1 below illustrates the division of garbage.

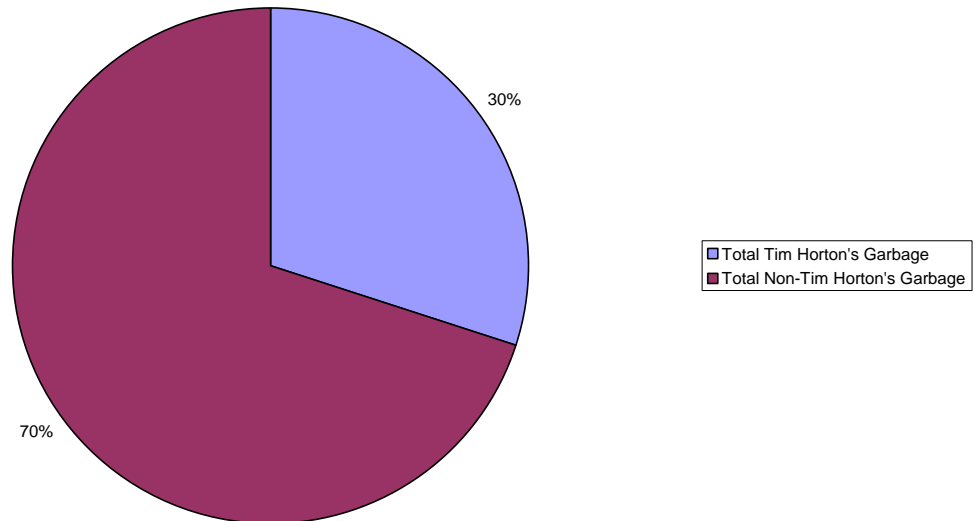
Fig. 1



The division of garbage can be analyzed easier in the form of percentages. Over the course of the audit week, 70% of the garbage was non-Tim Horton's and 30% was Tim Horton's. Figure 2 identifies the two percentages.

Fig. 2

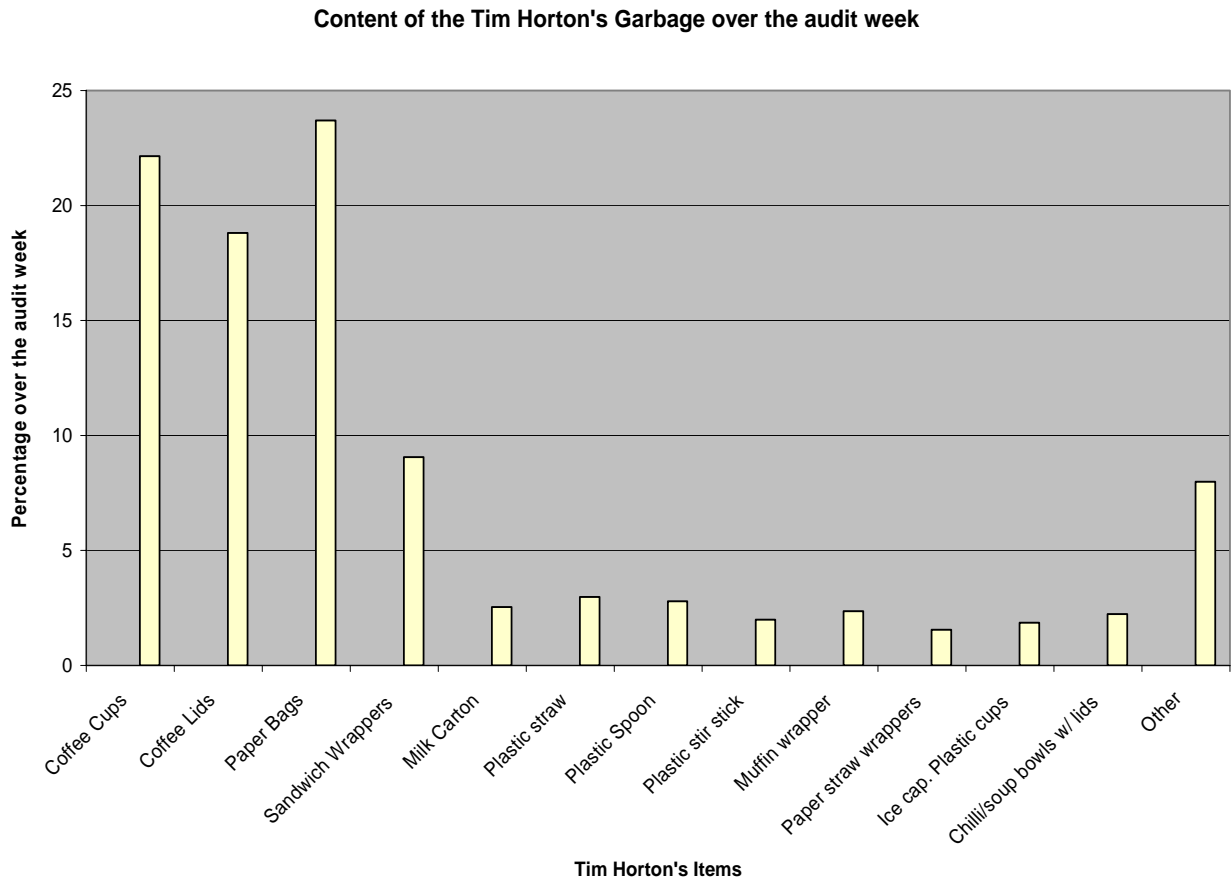
Percentage of Tim Horton's Garbage to Non-Tim Horton's Garbage



Once the garbage was identified in percentages, the Tim Horton's garbage was further analyzed. Each separate type of garbage was sorted (cups, paper bags, etc) and then recoded. After the analysis was complete it showed that the majority of the Tim Horton's garbage was mostly coffee cups, coffee lids, and paper bags. These three items made up 65% of the Tim Horton's garbage. There were many items (36 in total) from Tim Horton's, but some of the items were only found once or twice (this includes items such as the molded pulp cup holders and a majority of the food items). For analytical purposes, a chart was made to illustrate the total percentage of each Tim Horton's item over the audit week. The items that represented less than 1% of the total amount of Tim Horton's garbage were grouped under "other" in order to fit all items into the chart. For

further detail on these items please refer to appendix #1. Figure 3 below shows the content of the Tim Horton's garbage over the audit week.

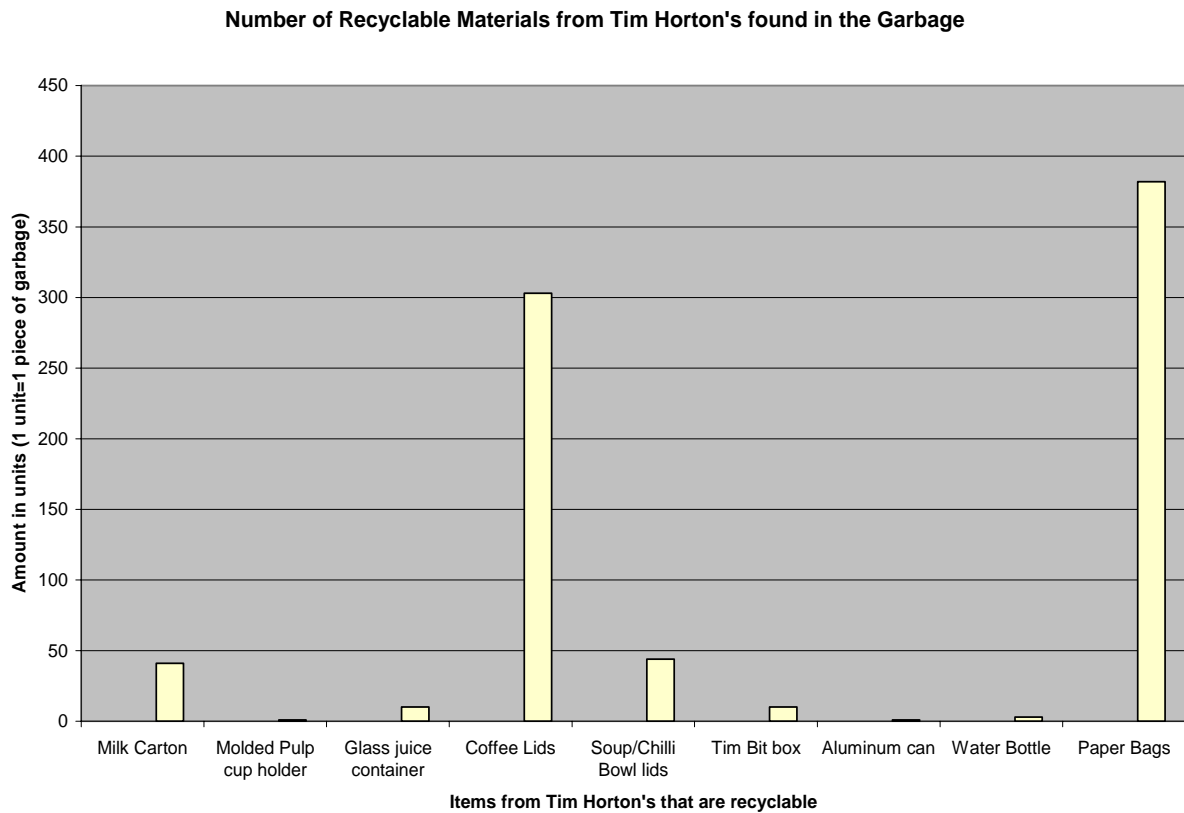
Fig. 3



Another facet that was drawn from the waste audit was the amount of recycled products from Tim Horton's that were found in the garbage. To make sure that these items were able to be recycled, the Region of Waterloo recycling guidelines were examined. The Region recycles the following: glass containers, aluminum cans, rigid plastic containers (numbers 1-7), milk cartons, cardboard and molded pulp (egg carton material) (Region of Waterloo, 2004). The items that were found in the Great Hall garbage from Tim Horton's that could be recycled are the following: milk cartons,

molded pulp cup holder, glass juice containers, coffee lids, ice cappuccino plastic cups, chili/soup bowl lids, timbit boxes, aluminum cans, and plastic water bottles. Figure 4 below shows the number of recyclables that were found.

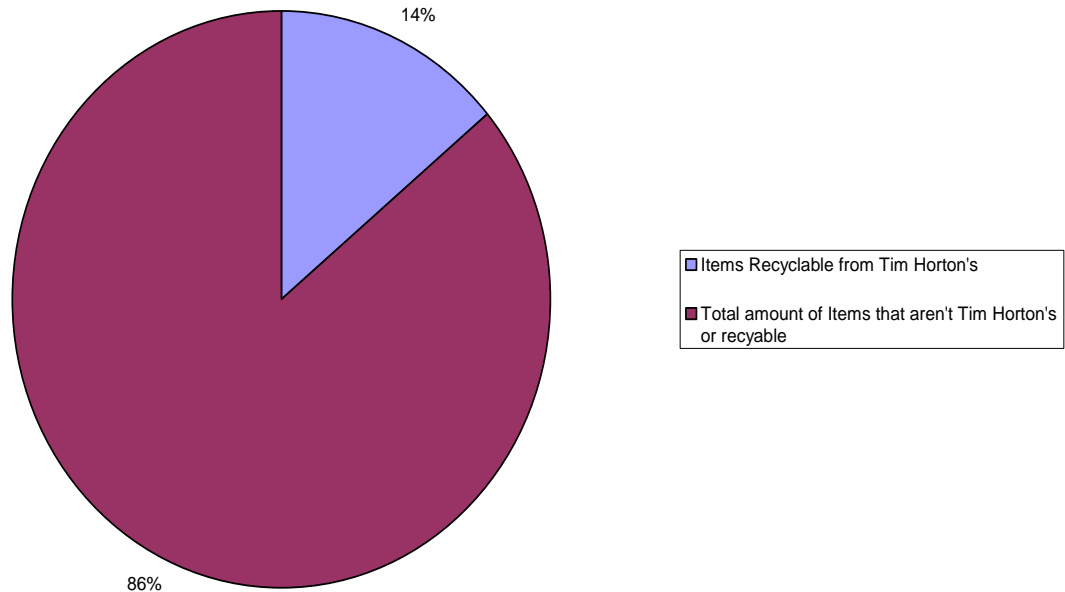
Fig. 4



This chart clearly illustrates that paper bags and coffee lids are a major component of the recyclable items found in the garbage. Figure 5 below shows the overall percentage of the items that can be recycled. It can be seen that 14% of the total amount of garbage is Tim Horton's and can be recycled, while the other 86% are items that are not Tim Horton's or cannot be recycled.

Fig. 5

Percentage of items from Tim Horton's that can be recycled



Many conclusions were drawn from these results. The first main concern that can be identified is that Tim Horton's alone contributes 30% of the total amount of garbage collected in the Great Hall. Assuming that the proportion of garbage that cannot be attributed to Tim Horton's has remained unchanged (70% in the study) then the new Tim Horton's constitutes an additional 30% on top of the original garbage output from the Great Hall. Also the most astonishing information that can be drawn from this is that out of all the garbage that Tim Horton's produced 49% of it was able to be recycled (this is 795 pieces of garbage). This information alone justifies the waste audit that was conducted, and meets the objectives that were set out in the beginning of the study. It is quite obvious that Tim Horton's and Tim Horton's patrons are not disposing of their

garbage in a proper manner, and that in fact Tim Horton's does contribute a considerable amount of waste to the overall waste collected in the Great Hall.

5.0 RECOMMENDATIONS:

Through a waste audit and an interview with Student Life Centre custodian, Tim Horton's garbage is a significant portion of the waste generated in Great Hall. To lessen the amount of Tim Horton's garbage entering the waste stream in Great Hall several recommendations were made.

5.1 Tim Horton's Should Take Responsibility for Waste Produced

Since Tim Horton's is in the Student Life Centre building and it is their products that are of concern it is important to encourage Tim Horton's to take responsibility for the waste being produced. While customers may want to have their purchases to "take out" and packaging is required, Tim Horton's may consider lessening the amount of "take out" packaging. Depending on the customers needs, (if they are only taking their purchase to Great Hall) they may not require a bag for their food. Another package reducing technique could be to adopt the cardboard hand grip for coffee cups used in other coffee shops on campus. This concept would eliminate the need to double-cup, therefore reducing some unnecessary packaging. By eliminating some of the packaging that Tim Horton's distributes, the Tim Horton's waste in Great Hall may become significantly less.

Another recommendation that involves Tim Horton's taking responsibility for the amount of garbage found in Great Hall is to promote customers to use their own mugs, cups, etc, known as the lug-a-mug program introduced in 1989 (Pascual, 2005). Instead of just accepting the mugs that people bring in, Tim Horton's should put forth an effort to

promote the lug-a-mug program (UW Waste Management, 2000). These initiatives will not only help with waste diversion but may also help Tim Horton's save money on products. Tim Horton's can encourage people to bring their own mug by providing a discount. From a study conducted at the University of Guelph, many students said they would bring their own dishes on campus if they received a large discount (University of Guelph, 2005).

Another problem that is affecting the amount of waste Tim Horton's is producing and possibly deterring people from participating in the lug-a-mug program is the Roll-up-the-Rim campaign. From a study done on the Tim Horton's in the Modern Languages cafeteria at the University of Waterloo it was found that during the Roll-up-the-Rim campaign there was an increase in people using disposable cups rather than reusable ones (Baic, 2001). A solution to this problem could be for Tim Horton's to reconsider the campaign, or perhaps come up with an alternative campaign that would still encourage people to use their own mugs.

Although there were Tim Horton's recyclable products found in the waste audit, perhaps by making most or all of the products recyclable would encourage consumers to divert the waste. While making Tim Horton's products recyclable may not change all consumers' habits right away, by Tim Horton's taking this initiative it might set an example and promote recycling. Another alternative to Tim Horton's products being non-recyclable is to make them compostable. From a study conducted in Nova Scotia, customers believed that by selling compostable cups it would help deal with the litter problem (CBC News, 2005). As long as Tim Horton's continues to have products that are not recyclable or compostable, the waste problem in Great Hall will also continue.

5.2 Students Should Become Responsible for Tim Horton's Waste

Although it is important that Tim Horton's is responsible for its waste, students that purchase their food should also hold some responsibility for the amount of waste created from Tim Horton's. As stated earlier not all of Tim Horton's products are recyclable, although some are. Students need to become educated on what Tim Horton's products are recyclable, as well as learn the importance of recycling. According to a survey conducted at the University of Guelph one of the top reasons that students do not recycle properly is because they do not understand the system (University of Guelph, 2005). Through educational posters, students can become aware of what Tim Horton's products are recyclable and as a result, they may take efforts to recycle.

Furthermore, students may be more apt to dispose of Tim Horton's garbage in the appropriate manner if they were aware of how severe the situation is. Whether findings from this project or others were made available to the student body, their actions may change. Something as simple as not being aware could be affecting the amount of unnecessary waste entering the garbage in Great Hall.

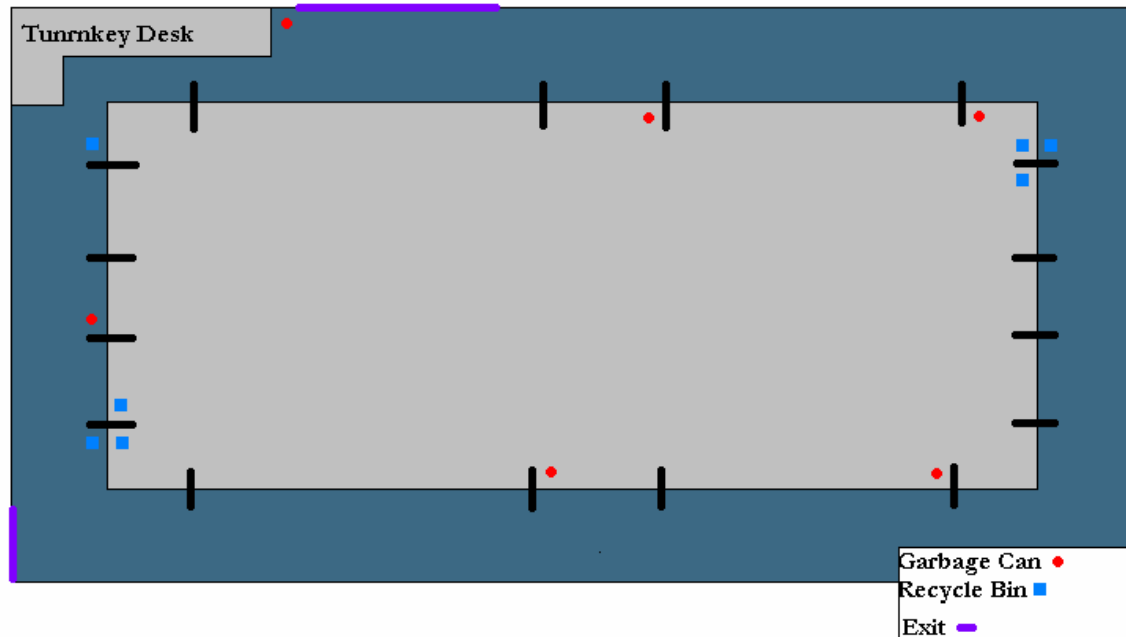
5.3 Make Recycling More Convenient

Another recommendation to divert Tim Horton's waste from Great Hall is to create more accessible ways for students to recycle. It is important that recycling bins are placed in convenient locations so that students do not resort to throwing out recyclable Tim Horton's products; as a result of placement of recycling bins compared to that of

garbage bins. The diagram below illustrates Great Hall's composition of recycling and garbage bins.

Fig. 6

The Great Hall in the SLC



Although there are several recycling bins available, they are clustered together, whereas the garbage bins are more scattered. Perhaps if the recycling containers were more dispersed they would be in locations more convenient for students to recycle.

Waste Management Co-Coordinator at the University of Waterloo, Patti Cook made the suggestion of using more eye pleasing recycling bins. This recommendation was based on previous recommendations that were implemented in another part of the Student Life Centre (Cook, 2005). By having recycling bins that are pleasing to the eye students may be more drawn to them. If the recycling bin is just sitting in the corner of the room they may not be noticeable. However, by putting in larger, eye catching, recycling bins it may make the difference in having students recycling, specifically Tim Horton's products.

5.4 Waterloo Region Should Take Some Responsibility for Tim Horton's Waste

Another recommendation is for Waterloo Region to consider is to allow some Tim Horton's products into the recycling program that is currently not accepted. Although Tim Horton's coffee cups are not currently recyclable in Waterloo Region there are places where they are. At the Westmoreland Albert Solid Waste Corporation in Moncton, they run the cups through their dry plant and recycle them with boxboard (CBC News, 2005). If the Region of Waterloo could consider implementing such a program, they may also see a significant decrease in Tim Horton's waste.

6.0 CONCLUSION:

Through observation, a waste audit and interviews it is apparent that Tim Horton's contributes a significant amount of garbage in Great Hall. While it may never be possible to completely eliminate the problem, there are steps that can be taken to help reduce it. The literature review offered past projects and ideas that can be considered to maintain the waste in a more sustainable manner. Throughout the recommendations, various suggestions were made to how different groups can help to improve Tim Horton's waste in Great Hall. While individual efforts are important, it is the combination of efforts that will truly make a difference in the improvement of the waste generation in Great Hall.

7.0 REFERENCES:

- Baic, Janet et al. "A Case Study at the Tim Horton's." 03 2001. 24 Mar 2005
<http://www.adm.uwaterloo.ca/infowast/watgreen/projects/library/w01disposable_cups.html>.
- Beaulieu, Patricia and Chantal Davidchuk. "Waste Reduction at Source: University of Waterloo's Food Services as a Case Study." 1994. 24 Mar. 2005
<http://www.adm.uwaterloo.ca/infowast/watgreen/projects/project_records/730.html>.
- Bater, Colleen et al. "On Campus Recycling Knowledge of Environmental Studies Students." 2001. 24 Mar. 2005
<<http://www.adm.uwaterloo.ca/infowast/watgreen/projects/library/w01recyclingknowledge.pdf>>.
- "Coffee contest leads to trash talk." CBC News 02 2005. 24 Mar 2005
<http://novascotia.cbc.ca/regional/servlet/View?filename=ns-Horton's-trash20050302>
- Cook, Patti. Personal Interview. January 2005.
- Donald, Allan et al. "How Far Would You Go To Recycle." 12 2003. 24 Mar 2005
<<http://www.adm.uwaterloo.ca/infowast/watgreen/projects/library/f03howfartorecycle.pdf>>.
- Hewitt, Tanya et al. "Reducing the Waste at the Math and Computer's Coffee and Donut Shop." 1996. 24 Mar. 2005
<http://www.adm.uwaterloo.ca/infowast/watgreen/projects/project_records/910.html>.
- History of Waste Management at the University of Waterloo. Jan 30 2001. UW Waste Management Homepage. 24 Mar. 2005.
<<http://www.adm.uwaterloo.ca/infowast/howstart.html>>
- "OPIRG Waste Reduction Working Group Waste Awareness Survey." 30 2001. University of Guelph. 24 Mar. 2005
<<http://www.pr.uoguelph.ca/sustain/waware.htm>>.
- Pascual, Emily. "Campus Mugging." Imprint 15 Nov . 24 Mar 2005
<http://imprint.uwaterloo.ca/issues/111596/1News/news07.html>
- Palys, Ted. 2003. Research Decisions: Quantative Perspectives, Third Edition. Nelson. Canada.

Reduce Reuse Repair Refuse Rethink Recover . 30 2000. UW Waste Management Homepage. 24 Mar. 2005 <<http://www.adm.uwaterloo.ca/infowast/reduce.html>>.

Region of Waterloo, (2004). Blue box recycling instruction. Retrieved Mar. 24, 2005, from Blue Box recycling Web site:
<http://www.region.waterloo.on.ca/web/region.nsf/97dfc347666efede85256e590071a3d4/c709152fd596f97085256e8b0052660e!OpenDocument>.

"Sustainability at U of G." University of Guelph. 24 Mar. 2005
<<http://www.pr.uoguelph.ca/sustain/wastereductfaq.html>>.

Temmer, Rebecca. "Where Kermit Went Wrong: Sustainability 101." Imprint 07 2005.24 Mar 2005
<<http://imprint.uwaterloo.ca/story.php?f=2&t=6340&i=&v=f&story=6340>>.

Appendix 1

Waste Audit to determine the amount of Tim Horton's Garbage in Great Hall of SLC

Monday: February 7, 2005

| Type of Garbage | Bag 1 AM | Bag 2 AM | Bag 3 AM | Bag 4 AM | Bag 5 AM | Total |
|-----------------------------------|-----------|-----------|------------|------------|------------|------------|
| Non-Tim Horton's Garbage: | 46 | 34 | 47 | 105 | 197 | 429 |
| Tim Horton's Garbage: | | | | | | |
| Coffee Cups | 11 | 18 | 14 | 13 | 21 | 77 |
| Milk Carton | 3 | 0 | 4 | 1 | 1 | 9 |
| Cardboard Cup Holder | 0 | 0 | 0 | 0 | 0 | 0 |
| Glass Juice container | 0 | 1 | 1 | 0 | 0 | 2 |
| Plastic Juice container | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic Straws | 5 | 4 | 7 | 1 | 2 | 19 |
| Plastic Spoon | 0 | 0 | 6 | 1 | 2 | 9 |
| Plastic Fork | 0 | 0 | 0 | 0 | 1 | 1 |
| Plastic Knife | 1 | 0 | 5 | 1 | 0 | 7 |
| Plastic Stir Stick | 1 | 4 | 0 | 0 | 0 | 5 |
| Coffee Lids | 11 | 15 | 12 | 13 | 18 | 69 |
| Sugar packet | 0 | 1 | 0 | 0 | 0 | 1 |
| Salt packet | 0 | 0 | 1 | 0 | 0 | 1 |
| Pepper packet | 0 | 0 | 1 | 0 | 0 | 1 |
| Sandwich/Bagel wrapper | 2 | 6 | 7 | 2 | 4 | 21 |
| Muffin wrapper | 1 | 2 | 0 | 0 | 0 | 3 |
| Paper bags | 10 | 18 | 28 | 12 | 15 | 83 |
| Tea bag | 0 | 0 | 0 | 0 | 1 | 1 |
| Paper Straw wrapper | 2 | 0 | 0 | 1 | 0 | 3 |
| Ice cappuccino plastic cup | 2 | 3 | 5 | 0 | 2 | 12 |
| Wax paper sheet ("grapper") | 0 | 1 | 2 | 0 | 0 | 3 |
| Tim Bit Box | 1 | 2 | 1 | 0 | 1 | 5 |
| Chili/Soup bowl w/ lid | 2 | 0 | 5 | 0 | 3 | 10 |
| Chili/Soup bowl w/out lid | 0 | 0 | 0 | 0 | 0 | 0 |
| Chili/Soup bowl lid | 0 | 0 | 0 | 1 | 0 | 1 |
| Napkins | 0 | 1 | 1 | 1 | 0 | 3 |
| Aluminum Can | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Bottles | 0 | 0 | 2 | 0 | 0 | 2 |
| Cookies | 3 | 0 | 0 | 0 | 0 | 3 |
| Doughnut | 1 | 0 | 0.5 | 0 | 0 | 1.5 |
| Muffin | 0 | 0 | 0 | 0 | 0 | 0 |
| Soup | 0 | 0 | 1 | 0 | 0 | 1 |
| Butter Packet | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich | 0 | 0 | 0.5 | 0 | 0 | 0.5 |
| Bun | 0 | 0 | 0 | 0 | 0 | 0 |
| Bagel | 0 | 0 | 0 | 0 | 0 | 0 |
| Total of T-H's garbage | 56 | 76 | 104 | 47 | 71 | 354 |
| Total of non-T-H's Garbage | 46 | 34 | 47 | 105 | 197 | 429 |

| Type of Garbage | Bag 1 PM | Bag 2 PM | Bag 3 PM | Bag 4 PM | Bag 5 PM | Bag 6 PM | Total |
|-----------------------------------|----------|----------|----------|----------|----------|----------|-------|
| Non-Tim Horton's Garbage: | 96 | 68 | 61 | 125 | 86 | 78 | 514 |
| Tim Horton's Garbage: | | | | | | | |
| Coffee Cups | 8 | 3 | 10 | 11 | 12 | 3 | 47 |
| Milk Carton | 4 | 2 | 2 | 1 | 3 | 0 | 12 |
| Cardboard Cup Holder | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Glass Juice container | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| Plastic Juice container | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Plastic Straws | 3 | 0 | 2 | 1 | 1 | 0 | 7 |
| Plastic Spoon | 1 | 0 | 2 | 2 | 1 | 1 | 7 |
| Plastic Fork | 2 | 0 | 1 | 3 | 1 | 1 | 8 |
| Plastic Knife | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| Plastic Stir Stick | 0 | 1 | 1 | 1 | 3 | 0 | 6 |
| Coffee Lids | 7 | 2 | 8 | 11 | 11 | 2 | 41 |
| Sugar packet | 1 | 0 | 0 | 2 | 0 | 0 | 3 |
| Salt packet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pepper packet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich/Bagel wrapper | 7 | 2 | 3 | 9 | 9 | 4 | 34 |
| Muffin wrapper | 1 | 0 | 1 | 1 | 1 | 0 | 4 |
| Paper bags | 14 | 0 | 6 | 11 | 24 | 7 | 62 |
| Tea bag | 1 | 0 | 0 | 0 | 1 | 0 | 2 |
| Paper Straw wrapper | 1 | 0 | 2 | 0 | 8 | 0 | 11 |
| Ice cappuccino plastic cup | 1 | 0 | 1 | 0 | 1 | 0 | 3 |
| Wax paper sheet ("grapper") | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Tim Bit Box | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chili/Soup bowl w/ lid | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Chili/Soup bowl w/out lid | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chili/Soup bowl lid | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Napkins | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Aluminum Can | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Bottles | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Cookies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Doughnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soup | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Muffin | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Butter Packet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich | 0.5 | 0.5 | 0 | 0 | 0 | 0 | 1 |
| Bun | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bagel | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Total of T-H's garbage | 54.5 | 10.5 | 40 | 58 | 77 | 20 | 260 |
| Total of non-T-H's Garbage | 96 | 68 | 61 | 125 | 86 | 78 | 514 |

Wednesday February 9, 2005

| Type of Garbage | Bag 1 | Bag 2 | Bag 3 | Bag 4 | Bag 5 | Bag 6 | Total |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Non-Tim Horton's Garbage: | 107 | 74 | 95 | 95 | 163 | 154 | 688 |
| Tim Horton's Garbage: | | | | | | | |
| Coffee Cups | 10 | 9 | 3 | 18 | 2 | 7 | 49 |
| Milk Carton | 1 | 2 | 0 | 1 | 2 | 0 | 6 |
| Cardboard Cup Holder | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Glass Juice container | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic Juice container | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic Straws | 1 | 1 | 0 | 2 | 0 | 0 | 4 |
| Plastic Spoon | 1 | 0 | 1 | 4 | 0 | 0 | 6 |
| Plastic Fork | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic Knife | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Plastic Stir Stick | 0 | 0 | 0 | 2 | 1 | 0 | 3 |
| Coffee Lids | 1 | 8 | 3 | 15 | 2 | 7 | 36 |
| Sugar packet | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| Salt packet | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| Pepper packet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich/Bagel wrapper | 4 | 1 | 6 | 9 | 2 | 4 | 26 |
| Muffin wrapper | 0 | 0 | 2 | 0 | 0 | 1 | 3 |
| Paper bags | 6 | 2 | 10 | 14 | 3 | 8 | 43 |
| Tea bag | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| Paper Straw wrapper | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Ice cappuccino plastic cup | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Wax paper sheet ("grapper") | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tim Bit Box | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chili/Soup bowl w/ lid | 0 | 0 | 2 | 4 | 0 | 0 | 6 |
| Chili/Soup bowl w/out lid | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chili/Soup bowl lid | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Napkins | 0 | 1 | 1 | 2 | 0 | 0 | 4 |
| Aluminum Can | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Bottles | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cookies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Doughnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Soup | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Muffin | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Butter Packet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bun | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bagel | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total of T-H's garbage | 25 | 26 | 29 | 77 | 12 | 28 | 197 |
| Total of non-T-H's Garbage | 107 | 74 | 95 | 95 | 163 | 154 | 688 |

Tuesday February 8, 2005

| Type of Garbage | Bag 1 | Bag 2 | Bag 3 | Bag 4 | Bag 5 | Bag 6 | Total |
|-----------------------------------|-------|-------|-------|--------|-------|-------|-------|
| Non-Tim Horton's Garbage: | 196 | 93 | 220 | 84 | 29 | 119 | 741 |
| Tim Horton's Garbage: | | | | | | | |
| Coffee Cups | 7 | 11 | 10 | 22 | 4 | 11 | 65 |
| Milk Carton | 1 | 1 | 1 | 1 | 0 | 0 | 4 |
| Cardboard Cup Holder | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Glass Juice container | 0 | 1 | 1 | 0 | 1 | 0 | 3 |
| Plastic Juice container | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic Straws | 0 | 1 | 2 | 3 | 0 | 0 | 6 |
| Plastic Spoon | 0 | 2 | 0 | 7 | 0 | 0 | 9 |
| Plastic Fork | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic Knife | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Plastic Stir Stick | 1 | 0 | 1 | 1 | 0 | 0 | 3 |
| Coffee Lids | 7 | 10 | 11 | 17 | 4 | 6 | 55 |
| Sugar packet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salt packet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pepper packet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich/Bagel wrapper | 3 | 6 | 2 | 7 | 4 | 0 | 22 |
| Muffin wrapper | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| Paper bags | 5 | 10 | 8 | 23 | 6 | 4 | 56 |
| Tea bag | 0 | 1 | 0 | 2 | 0 | 1 | 4 |
| Paper Straw wrapper | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Ice cappuccino plastic cup | 1 | 0 | 1 | 3 | 0 | 0 | 5 |
| Wax paper sheet ("grapper") | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tim Bit Box | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Chili/Soup bowl w/ lid | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chili/Soup bowl w/out lid | 0 | 0 | 0 | 9 | 0 | 0 | 9 |
| Chili/Soup bowl lid | 0 | 0 | 0 | 7 | 0 | 0 | 7 |
| Napkins | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Aluminum Can | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Bottles | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cookies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Doughnut | 0 | 0.25 | 0 | 0 | 0 | 0 | 0.25 |
| Soup | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Muffin | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Butter Packet | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Bun | 0 | 0 | 0 | 0.75 | 0 | 0 | 0.75 |
| Bagel | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total of T-H's garbage | 25 | 44.25 | 37 | 108.75 | 19 | 24 | 258 |
| Total of non-T-H's Garbage | 196 | 93 | 220 | 84 | 29 | 119 | 741 |

Thursday February 10, 2005

| Type of Garbage | Bag 1 | Bag 2 | Bag 3 | Bag 4 | Bag 5 | Total |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Non-Tim Horton's Garbage: | 45 | 149 | 131 | 111 | 95 | 531 |
| Tim Horton's Garbage: | | | | | | |
| Coffee Cups | 5 | 9 | 9 | 23 | 15 | 61 |
| Milk Carton | 1 | 0 | 0 | 2 | 3 | 6 |
| Cardboard Cup Holder | 0 | 0 | 0 | 0 | 0 | 0 |
| Glass Juice container | 0 | 1 | 0 | 0 | 1 | 2 |
| Plastic Juice container | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic Straws | 1 | 0 | 0 | 1 | 1 | 3 |
| Plastic Spoon | 0 | 1 | 0 | 2 | 2 | 5 |
| Plastic Fork | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic Knife | 0 | 1 | 0 | 1 | 0 | 2 |
| Plastic Stir Stick | 0 | 1 | 1 | 1 | 1 | 4 |
| Coffee Lids | 3 | 8 | 9 | 21 | 13 | 54 |
| Sugar packet | 0 | 0 | 0 | 2 | 0 | 2 |
| Salt packet | 0 | 0 | 0 | 0 | 0 | 0 |
| Pepper packet | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich/Bagel wrapper | 1 | 3 | 6 | 2 | 7 | 19 |
| Muffin wrapper | 1 | 0 | 0 | 5 | 1 | 7 |
| Paper bags | 4 | 4 | 9 | 34 | 23 | 74 |
| Tea bag | 0 | 1 | 1 | 2 | 0 | 4 |
| Paper Straw wrapper | 0 | 0 | 1 | 2 | 0 | 3 |
| Ice cappuccino plastic cup | 0 | 0 | 1 | 0 | 1 | 2 |
| Wax paper sheet ("grapper") | 1 | 0 | 0 | 1 | 0 | 2 |
| Tim Bit Box | 0 | 0 | 0 | 0 | 0 | 0 |
| Chili/Soup bowl w/ lid | 0 | 1 | 0 | 2 | 1 | 4 |
| Chili/Soup bowl w/out lid | 0 | 0 | 0 | 0 | 0 | 0 |
| Chili/Soup bowl lid | 0 | 0 | 0 | 0 | 0 | 0 |
| Napkins | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Bottles | 0 | 0 | 0 | 0 | 0 | 0 |
| Aluminum Can | 1 | 0 | 0 | 0 | 0 | 1 |
| Cookies | 0 | 0 | 0 | 0 | 0 | 0 |
| Doughnut | 0 | 0 | 0 | 0.5 | 0 | 0.5 |
| Muffin | 0 | 0 | 0 | 0 | 0.5 | 0.5 |
| Soup | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich | 0 | 0.5 | 0.5 | 0 | 0 | 1 |
| Butter Packet | 0 | 0 | 0 | 0 | 0 | 0 |
| Bun | 0 | 0 | 0 | 0 | 0 | 0 |
| Bagel | 0 | 0 | 0 | 0 | 0 | 0 |
| Total of T-H's garbage | 18 | 30.5 | 37.5 | 101.5 | 69.5 | 257 |
| Total of non-T-H's Garbage | 45 | 149 | 131 | 111 | 95 | 531 |

Friday February 11, 2005

| Type of Garbage | Bag 1 | Bag 2 | Bag 3 | Bag 4 | Bag 5 | Bag 6 | Total |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Non-Tim Horton's Garbage: | 126 | 94 | 191 | 203 | 115 | 131 | 860 |
| Tim Horton's Garbage: | | | | | | | |
| Coffee Cups | 8 | 7 | 10 | 16 | 8 | 9 | 58 |
| Milk Carton | 0 | 1 | 0 | 0 | 0 | 3 | 4 |
| Cardboard Cup Holder | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Glass Juice container | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Plastic Juice container | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic Straws | 3 | 1 | 0 | 2 | 2 | 1 | 9 |
| Plastic Spoon | 1 | 0 | 2 | 2 | 1 | 3 | 9 |
| Plastic Fork | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Plastic Knife | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Plastic Stir Stick | 1 | 1 | 2 | 2 | 3 | 2 | 11 |
| Coffee Lids | 6 | 6 | 10 | 12 | 7 | 7 | 48 |
| Sugar packet | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Salt packet | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Pepper packet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich/Bagel wrapper | 4 | 5 | 8 | 0 | 7 | 0 | 24 |
| Muffin wrapper | 0 | 1 | 2 | 10 | 0 | 6 | 19 |
| Paper bags | 12 | 8 | 13 | 11 | 9 | 11 | 64 |
| Tea bag | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| Paper Straw wrapper | 1 | 1 | 0 | 2 | 1 | 0 | 5 |
| Ice cappuccino plastic cup | 1 | 0 | 0 | 2 | 2 | 1 | 6 |
| Wax paper sheet ("grapper") | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Tim Bit Box | 0 | 0 | 1 | 1 | 0 | 2 | 4 |
| Chili/Soup bowl w/ lid | 2 | 1 | 3 | 4 | 2 | 3 | 15 |
| Chili/Soup bowl w/out lid | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chili/Soup bowl lid | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Napkins | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aluminum Can | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Bottles | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cookies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Doughnut | 0 | 0 | 0.5 | 0 | 0 | 0 | 0.5 |
| Soup | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Muffin | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sandwich | 0 | 0 | 0 | 0 | 0.5 | 0 | 0.5 |
| Butter Packet | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Bun | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bagel | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total of T-H's garbage | 40 | 34 | 54.5 | 66 | 43.5 | 48 | 286 |
| Total of non-T-H's Garbage | 126 | 94 | 191 | 203 | 115 | 131 | 860 |

| | | Percent |
|-----------------------------------|-------------|---------------|
| Total of Tim Horton's Garbage | 1612 | 29.99 |
| Total of Non-Tim Horton's Garbage | 3763 | 70.01 |
| Total | 5375 | 100.00 |

| Type of Garbage | Total | Percent |
|----------------------------------|-------------|---------------|
| Non-Tim Horton's Garbage: | 3763 | 70.01 |
| Tim Horton's Garbage: | | |
| Coffee Cups | 357 | 6.64 |
| Milk Carton | 41 | 0.76 |
| Cardboard Cup Holder | 1 | 0.02 |
| Glass Juice container | 10 | 0.19 |
| Plastic Juice container | 1 | 0.02 |
| Plastic Straws | 48 | 0.89 |
| Plastic Spoon | 45 | 0.84 |
| Plastic Fork | 10 | 0.19 |
| Plastic Knife | 16 | 0.30 |
| Plastic Stir Stick | 32 | 0.60 |
| Coffee Lids | 303 | 5.64 |
| Sugar packet | 9 | 0.17 |
| Salt packet | 4 | 0.07 |
| Pepper packet | 1 | 0.02 |
| Sandwich/Bagel wrapper | 146 | 2.72 |
| Muffin wrapper | 38 | 0.71 |
| Paper bags | 382 | 7.11 |
| Tea bag | 15 | 0.28 |
| Paper Straw wrapper | 25 | 0.47 |
| Ice cappuccino plastic cup | 30 | 0.56 |
| Wax paper sheet ("grapper") | 8 | 0.15 |
| Tim Bit Box | 10 | 0.19 |
| Chili/Soup bowl w/ lid | 36 | 0.67 |
| Chili/Soup bowl w/out lid | 9 | 0.17 |
| Chili/Soup bowl lid | 8 | 0.15 |
| Napkins | 9 | 0.17 |
| Aluminum Can | 1 | 0.02 |
| Water Bottles | 3 | 0.06 |
| Cookies | 3 | 0.06 |
| Doughnut | 2.75 | 0.05 |
| Soup | 1 | 0.02 |
| Muffin | 0.5 | 0.01 |
| Sandwich | 3 | 0.06 |
| Butter Packet | 2 | 0.04 |
| Bun | 0.75 | 0.01 |
| Bagel | 1 | 0.02 |
| Total | 1612 | 100.00 |

Percent of Tim Horton's Garbage

| Tim Horton's Garbage: | Percent |
|-----------------------------|---------|
| Coffee Cups | 22.15 |
| Milk Carton | 2.54 |
| Cardboard Cup Holder | 0.06 |
| Glass Juice container | 0.62 |
| Plastic Juice container | 0.06 |
| Plastic Straws | 2.98 |
| Plastic Spoon | 2.79 |
| Plastic Fork | 0.62 |
| Plastic Knife | 0.99 |
| Plastic Stir Stick | 1.99 |
| Coffee Lids | 18.80 |
| Sugar packet | 0.56 |
| Salt packet | 0.25 |
| Pepper packet | 0.06 |
| Sandwich/Bagel wrapper | 9.06 |
| Muffin wrapper | 2.36 |
| Paper bags | 23.70 |
| Tea bag | 0.93 |
| Paper Straw wrapper | 1.55 |
| Ice cappuccino plastic cup | 1.86 |
| Wax paper sheet ("grapper") | 0.50 |
| Tim Bit Box | 0.62 |
| Chili/Soup bowl w/ lid | 2.23 |
| Chili/Soup bowl w/out lid | 0.56 |
| Chili/Soup bowl lid | 0.50 |
| Napkins | 0.56 |
| Aluminum Can | 0.06 |
| Water Bottles | 0.19 |
| Cookies | 0.19 |
| Doughnut | 0.17 |
| Soup | 0.06 |
| Muffin | 0.03 |
| Sandwich | 0.19 |
| Butter Packet | 0.12 |
| Bun | 0.05 |
| Bagel | 0.06 |
| | 100.00 |