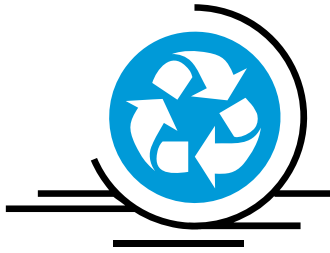


# QWS Clear Bag Pilot



## Waste Audit Report 2007-2008

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## 1.0 Project Background

Funded by Stewardship Ontario, Quinte Waste Solutions (QWS) is currently testing clear bags for waste disposal as a method to drive recyclables from the garbage stream into the blue box. The Municipality of Centre Hastings and Madoc Township, both of which are serviced by QWS, launched mandatory clear bag programs for garbage in January 2008. The program obligates participating residents to set out their garbage in clear bags, permitting the exception of one (1) privacy bag (opaque) per clear bag set out. In an effort to permit residents to adhere to the program smoothly, enforcement began in June of 2008.

### *Privacy Bags*

Out of consideration for people's privacy, one opaque or solid coloured 'privacy bag' full of garbage, is allowed to be placed in the clear bag. The maximum size of this 'privacy bag' is 20 by 22 inches.

## 2.0 Study Objectives

Integrated Environmental Waste Services was retained by QWS in order to perform a waste audit in 3 areas where the clear bag pilot is in place (see Section 3.0 for details). Overall, 30 households were selected during the summer of 2007 as a sample group which was evaluated in September of 2007 prior to the pilot launch and again in September of 2008 once the program was in full gear. The waste audit objectives included:

- To evaluate the clear bag pilot program impact on the overall waste generation totals.
- To measure the differences in the waste streams prior to and post program implementation.
- To assess the specific set out practices prior to and post program launch.
- To compare the different material capture rates pre and post pilot start.
- To determine the specific composition of the polyethylene plastic bags & film: 'packaging other' versus 'packaging retail full of garbage' versus 'packaging retail empty but possibly reused' versus 'packaging retail empty and appear unused' versus 'non-packaging opaque bags full of garbage' versus 'non-packaging other'.

## 3.0 Sample Selection

Overall 30 households were included in the waste audit process. Three (3) groups of ten (10) households were selected in various areas deemed representative of the pilot region as a whole. The same thirty households were utilized for both studies in order to provide direct points of comparison between the prior and post program implementation. Twenty (20) rural homes: 10 in Centre Hastings and 10 in the Township of Madoc in addition to ten (10) houses from the Town of Madoc for the urban representation were chosen. The general areas were as follows:

- Centre Hastings: Spring Brook Road
- Town of Madoc: Elgin Street
- Madoc Township: O'Hara Road and Mill Road

#### 4.0 Audit Timing

The audits were held over the course of two week periods which matched the same time frames in 2007 as in 2008. Two weeks were utilized in order to consider a full waste cycle in each of the areas whereas the garbage and recyclable collection in the Township of Madoc is on a bi-weekly schedule while Centre Hastings and the Town of Madoc have a weekly collection schedule.

In addition the 2 week period allows for a larger sample (2 weeks of set outs rather than just one) and can also provide a bigger margin for data comparison in the event that either the garbage or the recyclables are inadvertently collected by the haulers or some other non collection or non set out factors arises during one of the two weeks of the study.

The garbage and recyclable materials are collected bi-weekly on Mondays in the Township of Madoc. The Town of Madoc (village area) sample selection was collected weekly on Tuesday and the sample generated from Centre Hastings was also collected weekly but on the Wednesday. The specific collection dates for the audit were the following:

- **2007:** September 11,12,17,18 & 19
- **2008:** September 9,10,15,16 & 17

#### 5.0 Methodology

The methodology suggested by Stewardship Ontario for single family homes was used for both of the waste audits. Ten (10) homes in each of the areas were selected according to the sample selection criteria developed by Stewardship Ontario. The samples were collected sorted and weighed according to the same procedure. Each group of ten (10) houses were kept together and analysed individually for a total of three (3) sample sets in each instance: 2007 & 2008. For more details, please refer to the methodology outline by Stewardship Ontario for single family households found at:

“[http://www.stewardshipontario.ca/bluebox/pdf/efund/waste\\_audit\\_guide2005\\_sf.pdf](http://www.stewardshipontario.ca/bluebox/pdf/efund/waste_audit_guide2005_sf.pdf)”

In addition to the methodology suggested, the waste audit held after the pilot was implemented (2008) required a more detailed approach with respect to the set out surveys as well as the sorting of the wastes. A new set out survey was developed specifically in order to meet certain study objectives. Also, a more detailed observation of the clear bags set out was performed prior to sorting the wastes. And finally, six (6) new categories as listed in Section 2.0 were considered as part of the sort.

Appendix A contains a waste audit overview descriptive.

#### 6.0 Study Limitations

It should be noted that the study group was limited to thirty (30) households therefore may not be representative of the full pilot's impact. Although the results obtained confirm the reasoning behind the pilot's launch (clear bags = less garbage set outs), a broader look at the overall set outs is necessary. Such a study is underway where over 100 households are being

surveyed throughout the pilot area. Correlating both studies (survey and audit) could reinforce the results obtained as part of the audit only.

Also in 2007, in 2 instances sample material was inadvertently collected by the haulers therefore the results obtain during the opposite week of collection were doubled for the purpose of obtaining two weeks worth of data. The recycling was collected by the haulers during the second week of study in both the Town of Madoc and the Centre Hastings areas.

### 7.0 Study Findings

The following subsections will consider the study findings. The first will report the results of the set out logs while the second will detail the characterisation findings, the third will review the bad check results and finally the fourth will look at the numbers obtained for the polyethylene plastic bags & film detailed sort.

#### 7.1 Set out Logs

The set logs were utilized to note specific household set out habits. In 2007, the number of items or lots was logged per house for both the number of recycling containers and garbage bags set out. In addition to counting the number of lots set out, the number of containers to the closest quarter of a designated reference item was also measured. For instance, a house may have had 3 lots of recyclables set out which were roughly the equivalent of 2.75 blue boxes full. A garbage bag measuring more or less 26 in. X 32 in. was considered as 1.0 bags as a reference point for garbage. On the other hand a more detailed set out log was developed for the 2008 follow up audit. The following table heading was used:

E&E Project 177: Visual Inspection for Curbside Set Out																										
Sample Area:																										
Weather:																										
Collector's Name:																										
Notes/Observations & Address if Different from Above	House	Garbage										Recycling														
		A	B			C			D		E		F			G	H		I	J	K					
	#	Total Weight	Bag Appearance			Bag Size			Privacy Bags		Container Type (Note if bag in container and what type)		# of Containers by Size (nearest 1/4)				Condition									
			Garbage Bags nearest 1/4	Opaque	Clear	Other:	Regular	Small	Oversize	#	Exceed Size	Metal	Plastic	Rubber	Other:	Oversize	Regular	Small	# of Blue Boxes worth	Type of container used if not BB	Inconvenient to Use & B for Broke	Overflowing	Grocery / Retail Bags	Contamination	Proper Set Out	Total Weight
		N/A		# of bags	# of bags	# of bags	~26X32				# of containers	# of containers	# of containers	# of containers		Fits 1x26x32 bag										N/A

- A. As in 2007, the garbage bags were logged to the nearest quarter with the bag size of 26 in. X 32 in. as a reference point.
- B. The bag appearance was noted: i.e.: if 1 clear and 1 opaque bag were set out.
- C. The size of the bags set out: i.e.: 2 small + 1 regular.
- D. The number of privacy bags observed and whether they exceeded the permitted size of 20 by 22 inches.
- E. The container type used to contain the bags if any were used.
- F. The approximate size of the containers.
- G. The number of blue boxes to the nearest quarter with a regular sized blue box as a reference point and the type of container(s) used to set the recyclables out: i.e.: a blue box, a cardboard (OCC) box, a basket...
- H. If the blue box was broken or was inconvenient for the set out or if the containers used were overflowing.
- I. If there were any apparent grocery or retail type bags in the set out.
- J. If there was any apparent contamination of the recycling set out.
- K. If the set out was proper: i.e.: paper separated from containers & cardboard laid flat.

Appendix B contains a copy of the detailed collection log results for both the 2007 & 2008 studies.

Table 1 – 2007 versus 2008 Collection Log Summary located on the following page, summarizes the collection log results and compares the overall set out rates encountered during each of the studies. It shows that in each instance the clear bag program has had a positive impact with the sample groups.

The total number of items or lots of garbage set out decreased by 40 over the course of the 2 studies. It should be noted that during the 2007 study one household in the Centre and South Hastings area had a combined two-week total set out of 15 garbage bags whereas in 2008 the same household only had a total of 2 garbage bags. Therefore when considering the 40 bag decrease a 30 bag total may be more realistic projection of the decrease in bag set outs. The number of recycling set outs has remained fairly the same with a slight decrease of only 0.5 boxes per household.

The table also summarizes the overall number of households with a set out. In 2007, 60% of the sample group had recycling set out while 64% had garbage set out. On the other hand in 2008, 64% had recycling set out and 60% had garbage set out. This may also be an impact measured due to the implementation of the pilot. Fewer households are setting out garbage during any given week while more are setting out recyclables. However, the 60% garbage set out rate leads one to question whether or not certain residents participate in curb side set outs or they are transferring their wastes directly to the landfill.

Overall, there was 1.2 less garbage bags set out per household. It should be noted however that recycling was also lower in 1 of the three collection areas (Centre and South Hastings).

**Table 1 – 2007 versus 2008 Collection Log Summary**

Area	2007		2008		Increase/Decrease	
	Mixed Recycling	Garbage	Mixed Recycling	Garbage	Mixed Recycling	Garbage
<b>Town of Madoc</b>						
Total full bag/box/cart equivalents	23.50	19.00	27.00	14.50	3.50	-4.50
Total number of households with a set out (out of 20 possible)	16	14	13	13	-3.00	-1.00
Average number of full bags/boxes/carts per house	1.5	1.4	2.1	1.1	0.58	-0.24
<b>Madoc Township</b>						
Total full bag/box/cart equivalents	11.00	19.00	17.00	6.50	6.00	-12.50
Total number of households with a set out (out of 10 possible)	4	5	6	4	2.00	-1.00
Average number of full bags/boxes/carts per house	2.8	3.8	2.8	1.6	0.08	-2.18
<b>Centre and South Hastings</b>						
Total full bag/box/cart equivalents	37.00	37.50	27.00	14.50	-10.00	-23.00
Total number of households with a set out (out of 20 possible)	10	13	13	13	3.00	0.00
Average number of full bags/boxes/carts per house	3.7	2.9	2.1	1.1	-1.62	-1.83
<b>Overall Sample Group</b>						
Total full bag/box/cart equivalents	71.50	75.50	71.00	35.50	-0.50	-40.00
Total number of households with a set out (out of 50 possible)	30.00	32.00	32.00	30.00	2.00	-2.00
Average number of full bags/boxes/carts per house	2.4	2.4	2.2	1.2	-0.2	-1.2

## 7.2 Waste Audit Results

The following section will consider the results of the actual waste audit sort. Although the waste and recyclables were sorted into over 85 subcategories, the following subsection deals with a condensed version of the sorted categories in order to render comparison clearer. Appendix C contains a copy of the detailed sort results per area for both the wastes and recyclables sorted as part of the audit. The subcategories were grouped as follows:

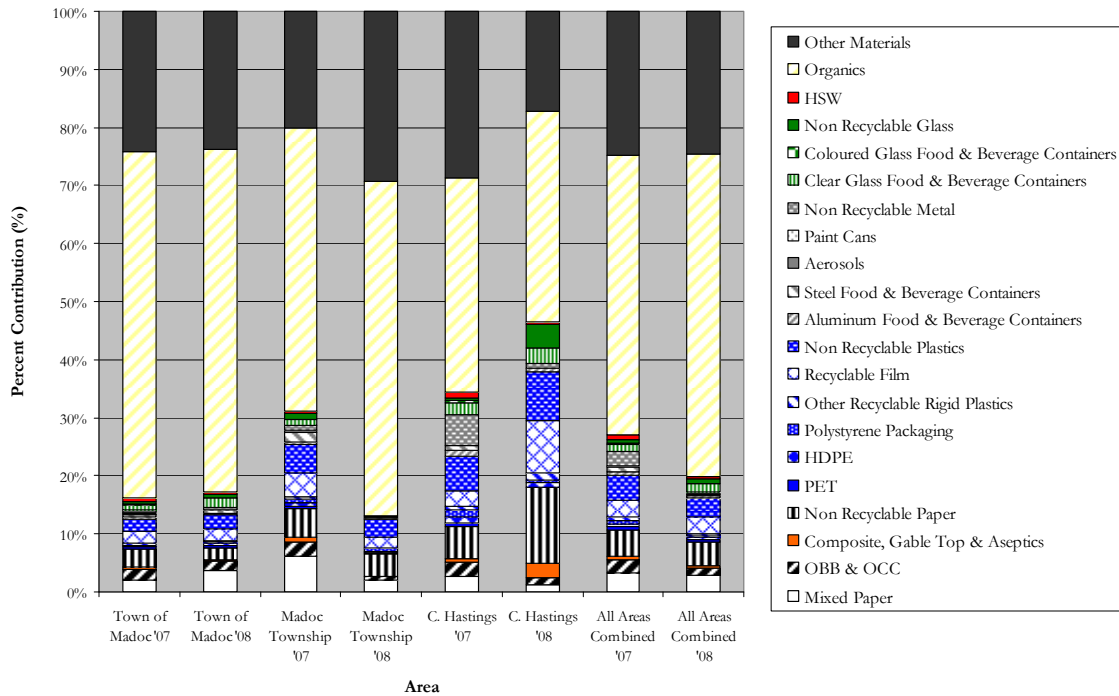
- Mixed paper:
  - Newsprint & Magazines
  - Telephone books/ directories
  - Mixed fine paper
  - Books
  - Kraft
  - Moulded pulp
- OBB & OCC:
  - Boxboard
  - Old corrugated cardboard

- Composite, Gable Top & Aseptic containers
- Non-recyclable paper:
  - Other paper
  - Paper cups and ice cream containers
  - Laminated paper packaging
  - Tissue/towelling
- PETE plastic:
  - All forms of #1 plastics
- HDPE plastic:
  - All forms of #2 plastics
- Polystyrene plastic:
  - All forms of #6 plastics
- Other recyclable rigid plastic:
  - #3, #4, #5 & #7 plastics
  - Wide mouth tubs and lids
  - Large pails & lids
- Recyclable film:
  - Polyethylene plastic bags & film – packaging
  - Polyethylene plastic bags & film – non packaging
- Non recyclable plastics:
  - Laminated/other plastic film and bags
  - Other rigid plastic packaging
  - Durable plastics
- Aluminum food & beverage containers
- Steel food & beverage containers
- Aerosols
- Paint cans
- Other metal
- Clear glass food & beverage containers
- Coloured glass food & beverage containers
- Other glass
- House special waste (HSW)
- Organic Materials
- Other

Overall the study showed that, when combining all three areas together, the composition of recyclables in the waste stream has decreased from 14% in 2007 to 11% in 2008. It should however be noted that when looking at the sorted data in each sample group the content of recyclables only decreased in 1 instance: Madoc Township from 19% in 2007 to 6% in 2008. In the case of the Town of Madoc the opposite trend was observed with recyclable materials being present at 10% in 2007 and then 11% in 2008, as with the Centre Hastings study group where the total amount of recyclables in the waste stream went from 16% in 2007 to 20% in 2008. Figure 1 - Relative Composition of the Waste Stream 2007 versus 2008,

illustrates the variances obtained during the course of both studies for each of the sample groups.

Figure 1 - Relative Composition of the Waste Stream 2007 versus 2008



When considering the capture rates obtained for the recyclable materials, an increase was observed for the overall results in each of the sample groups. When pooling all areas together, the capture rate increased overall by 9% from 27% in 2007 to 36% in 2008. More specifically, the Town of Madoc sample group’s capture rate increased by 5% from 26% in 2007 to 31% in 2008, the Madoc Township sample group’s capture rate increased by 12% from 18% in 2007 to 30% in 2008, and the Centre Hastings sample group’s increased by 25% from 32% in 2007 to 57% in 2008. [Table 2 – 2007 versus 2008 Capture Rates](#) lists the various capture rates obtained per grouped category for the three samples areas clustered together. Appendix D contains a copy of the detailed capture rates as obtained per category sorted.

**Table 2 – 2007 versus 2008 Capture Rates**

Sample Area:  Waste Stream:	Overall Sample Group					
	Garbage (kg)	Recycling (kg)	Capture Rate (%)	Garbage (kg)	Recycling (kg)	Capture Rate (%)
	2007			2008		
<b>Material Category</b>						
Mixed Paper	15.03	65.25	81.28%	7.21	50.39	87.49%
OBB & OCC	10.19	40.00	79.71%	3.22	24.63	88.45%
Composite, Gable Top & Aseptic	2.53	2.99	54.17%	1.09	3.08	73.95%
Non Recyclable Paper	20.20	3.14		10.20	1.67	
<b>Total Paper</b>	<b>47.94</b>	<b>111.37</b>	<b>67.94%</b>	<b>21.71</b>	<b>79.77</b>	<b>76.96%</b>
PET	2.09	9.40	81.84%	0.74	11.62	94.05%
HDPE	2.60	8.30	76.18%	0.97	5.66	85.43%
Polystyrene Packaging	2.81	1.07	27.58%	0.84	3.67	81.37%
Other Recyclable Rigid Plastics	2.38	2.38	49.95%	0.73	2.74	78.96%
Recyclable Film	12.38	4.66	27.36%	7.23	7.23	50.00%
Non Recyclable Plastics	19.35	11.13		8.42	5.24	
<b>Total Plastics</b>	<b>41.60</b>	<b>36.93</b>	<b>32.86%</b>	<b>18.92</b>	<b>36.16</b>	<b>56.14%</b>
Aluminum Food & Beverage Containers	2.65	2.53	48.84%	0.75	3.54	82.52%
Steel Food & Beverage Containers	4.03	11.82	74.59%	0.82	13.20	94.18%
Aerosols	0.83	0.16	16.24%	0.22	1.19	84.70%
Paint Cans	0.18	3.17	94.63%	0.00	0.00	
Other Metal	10.58	0.00		0.84	0.25	
<b>Total Metals</b>	<b>18.26</b>	<b>17.68</b>	<b>49.19%</b>	<b>2.62</b>	<b>18.18</b>	<b>86.20%</b>
Clear Glass Food & Beverage Containers	5.86	12.17	67.52%	3.19	18.36	85.19%
Coloured Glass Food & Beverage Containers	1.09	2.88	72.60%	0.00	0.31	100.00%
Other Glass	2.72	0.15		2.18	0.73	
<b>Total Glass</b>	<b>9.66</b>	<b>15.20</b>	<b>60.54%</b>	<b>5.37</b>	<b>19.39</b>	<b>75.39%</b>
Total HSW	3.16	0.18		1.10	0.03	
Total Organics	216.09	0.13		138.95	0.85	
Total Other Materials	110.77	2.32		61.33	5.35	
<b>Total HSW + Organics + Other</b>	<b>330.01</b>	<b>2.62</b>		<b>201.37</b>	<b>6.22</b>	
<b>Grand Total</b>	<b>447.46</b>	<b>183.79</b>		<b>249.98</b>	<b>159.71</b>	
<b>Contamination</b>		<b>15.54</b>			<b>12.60</b>	
<b>Blue Box Total without Contamination</b>		<b>168.25</b>	<b>26.65%</b>		<b>147.11</b>	<b>35.91%</b>

*\*Materials highlighted in yellow indicate those which are accepted in the local Blue Box program.*

### 7.3 Bag Checks

As part of the 2008 audit only, an additional step was taken once the samples were collected. Each individual garbage bag was closely observed in order to establish if any and what amount of privacy bags were contained in each of the garbage bags. During this step, observations were also made with respect to the amount of recyclables (if any) were present in each individual bag. Appendix E contains the detailed listings of the bags collected as part of the 2008 study. Table 3 – 2008 Bag Check is a summary of findings when pooling all results together.

**Table 3 – 2008 Bag Check**

	Clear Bags Collected	Bags with more than 1 privacy bag	Bags containing recyclable materials
# of bags	36	10	24
% of total	100.0%	27.8%	66.7%

Overall, a total of 37 bags were collected for sorting during the course of the entire 2 week 2008 study (36 of the 37 bags collected were clear, 1 was opaque). Of the total, 10 bags verified contained more than 1 privacy bag, while 24 bags contained recyclable materials. None of the privacy bags exceeded the maximum permitted size. Of the more popular contaminants, polystyrene packaging used in the meat packing industry was often the top contaminant. Some traces of boxboard (i.e.: toilet paper rolls) and other papers used for packaging were also encountered more frequently.

### 7.4 Polyethylene Plastic Bags & Film

During the course of the fall 2008 study, extra categories were added with respect to the Polyethylene plastic bags & film category. As mentioned earlier, the category was further sub divided into the following:

- packaging other
- packaging retail full of garbage
- packaging retail empty but possibly reused
- packaging retail empty and appear unused
- non-packaging opaque bags full of garbage
- non-packaging other

Overall, the recyclable film category represented 2.0% of the total waste stream sorted as part of the garbage stream only for the 2008 study and 2.84% of the recycling stream. The Town of Madoc obtained a 2.04% percent composition for recyclable film for the garbage stream and 3.89% for the recycling stream, while Madoc Township was found to have 1.80% for the garbage stream and 3.65% for the recycling stream composition. Centre Hastings obtained a 2.27% relative composition of the garbage stream and 0.58% of the recycling stream. Figure 2 – 2008 Polyethylene Plastic Bags & Film Garbage Stream Generation considers the relative composition of the recyclable film generated as part of the garbage stream only. No packaging retail that were empty but appeared possibly reused was encountered.

Figure 2 – 2008 Polyethylene Plastic Bags & Film Garbage Stream Generation

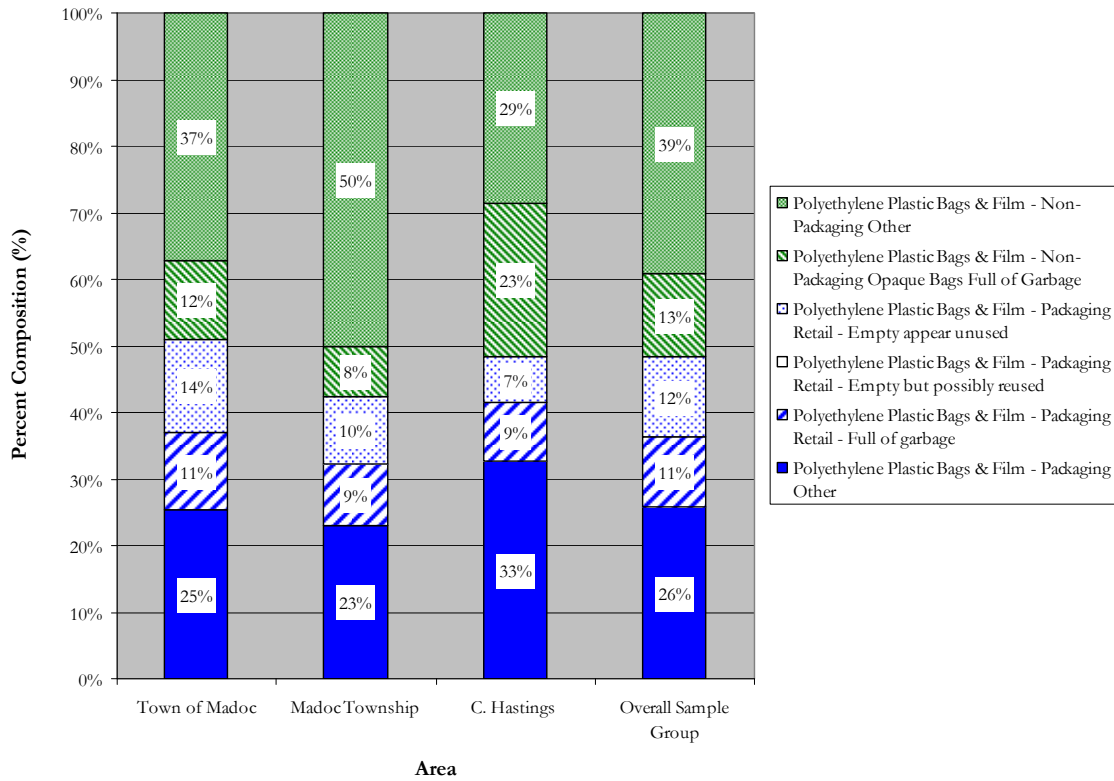


Table 4 – 2008 Polyethylene Plastic Bags & Film Garbage Stream Capture Rates lists the capture rates obtained for each of the film subcategories. Both the Town of Madoc as well as Madoc Township obtained capture rates of 50% for the recyclable film categories combined while Centre Hastings obtained a 27% capture rate.

Table 4 – 2008 Polyethylene Plastic Bags & Film Garbage Stream Capture Rates

	Town of Madoc			Madoc Township			C. Hastings			Overall Sample Group		
	Garbage (kg)	Recycling (kg)	Capture Rate (%)	Garbage (kg)	Recycling (kg)	Capture Rate (%)	Garbage (kg)	Recycling (kg)	Capture Rate (%)	Garbage (kg)	Recycling (kg)	Capture Rate (%)
Packaging Other	0.76	1.90	71.51%	0.30	0.62	67.21%	0.24	0.04	14.29%	1.30	2.55	66.32%
Packaging Retail - Full of garbage	0.34	0.31	47.69%	0.12	0.14	52.94%	0.07	0.08	53.57%	0.53	0.52	49.76%
Packaging Retail - Empty but possibly reused	0.00	0.00	0.00%	0.00	0.00	0.00%	0.00	0.00	0.00%	0.00	0.00	0.00%
Packaging Retail - Empty appear unused	0.42	0.50	54.40%	0.13	0.26	66.67%	0.05	0.01	16.67%	0.60	0.77	56.25%
Non-Packaging Opaque Bags Full of Garbage	0.36	0.00	0.00%	0.10	0.00	0.00%	0.17	0.00	0.00%	0.63	0.00	0.00%
Non-Packaging Other	1.10	0.27	19.41%	0.65	0.29	30.85%	0.21	0.15	41.67%	1.96	0.71	26.45%
<b>Total</b>	<b>2.97</b>	<b>2.97</b>	<b>50.00%</b>	<b>1.30</b>	<b>1.30</b>	<b>50.00%</b>	<b>0.74</b>	<b>0.28</b>	<b>27.23%</b>	<b>5.00</b>	<b>4.54</b>	<b>47.59%</b>
<b>Percent of Overall Stream</b>	<b>2.04%</b>	<b>3.89%</b>		<b>1.80%</b>	<b>3.65%</b>		<b>2.27%</b>	<b>0.58%</b>		<b>2.00%</b>	<b>2.84%</b>	

## 8.0 Conclusions

When reviewing the results obtained with the study objectives, the clear bag pilot program appears to have positive results in lowering the amount of recyclables sent to landfill as well as the total weight of garbage transferred to landfill.

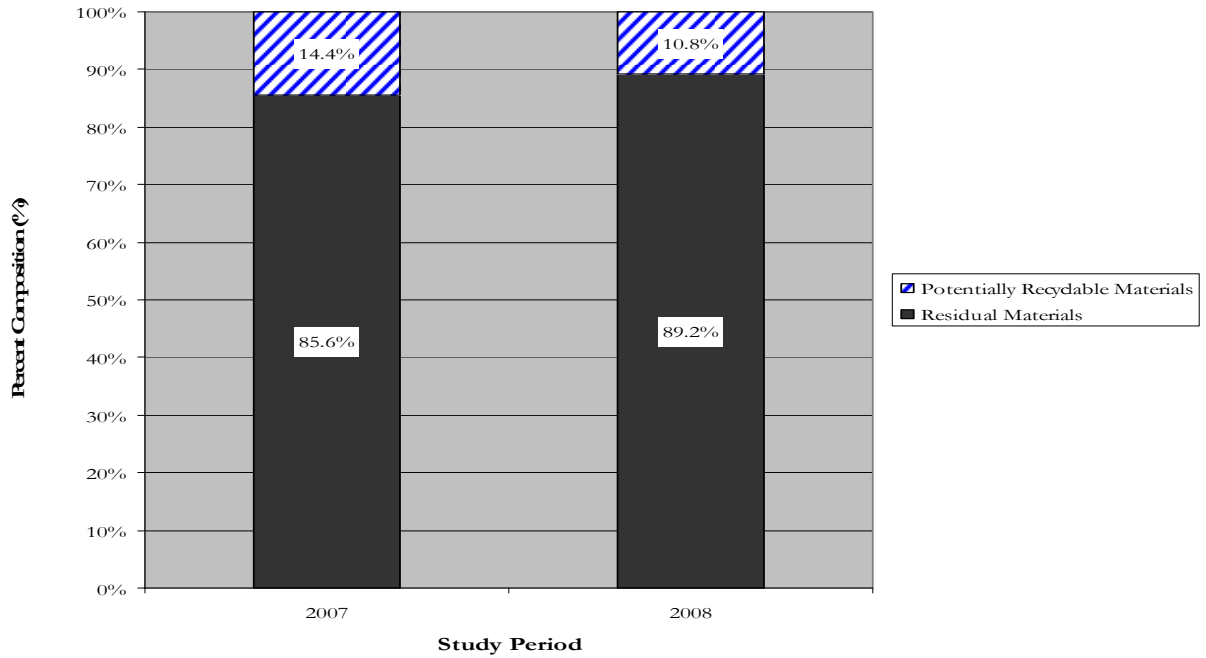
Table 5 – Overall Weights and Setout Trends lists the grouped results comparing the 2007 and 2008 numbers obtained. It shows that overall the garbage generated for landfill decreased by 5.65 kg/household with a set out. In addition, the number of garbage items set out as well as the number of houses with garbage set out also decreased.

**Table 5 – Overall Weights and Setout Trends**

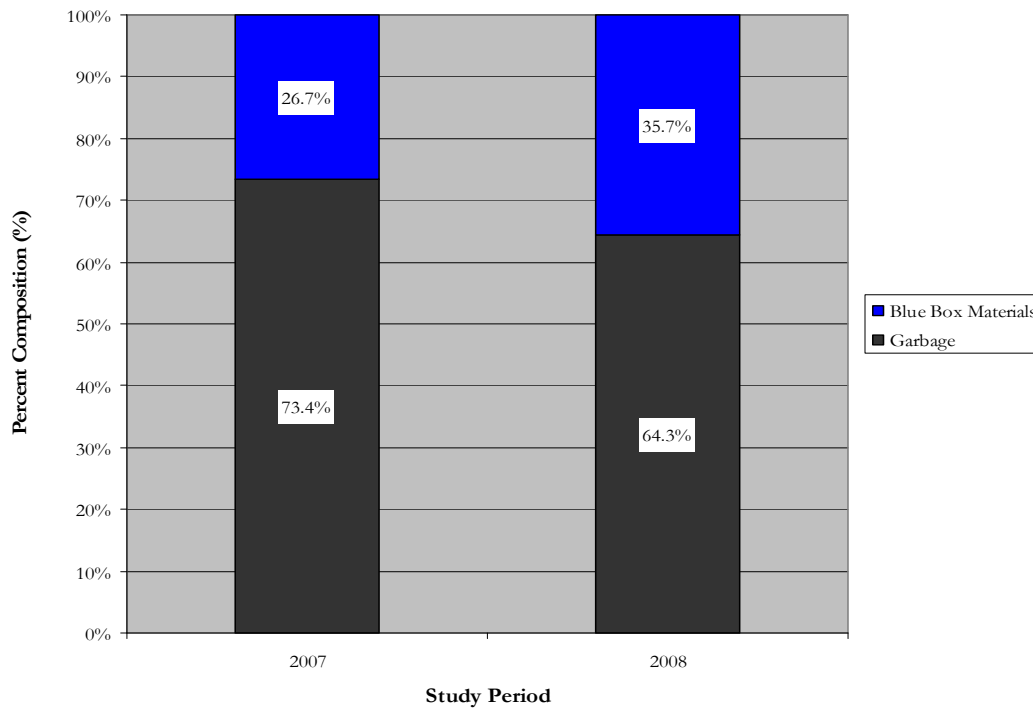
	Overall Sample Group					
	2007		2008		Increase/Decrease	
	Mixed Recycling (kg)	Garbage (kg)	Mixed Recycling (kg)	Garbage (kg)	Mixed Recycling (kg)	Garbage (kg)
Average number of full bags/boxes/carts per house	2.4	2.4	2.2	1.2	-0.2	-1.2
Overall weight collected and sorted	183.79	447.46	159.71	249.98	-24.08	-197.48
Total number of households with a Setout (out of 50 possible)	30.00	32.00	32.00	30.00	2.00	-2.00
Average weight per household with a Setout	6.1	14.0	5.0	8.3	-1.14	-5.65

Figure 3 - Combined Sample Group Results Garbage Sent to Landfill and Figure 4- Combined Sample Group Results Overall Waste Stream Generated (Garbage & Blue Box) both illustrate the obtained trends with regards to recyclables in the waste stream and the overall number of recyclables diverted through the blue box program. Figure 3 shows that the recyclables found in the garbage have decreased from 14.4% to 10.8%, however it should be noted that when looking at the sorted data in each sample group the content of recyclables only decreased in 1 instance: Madoc Township. On the other hand, Figure 4 demonstrates that the Blue Box diversion rate has increased from 26.7% to 35.7%. Both results are a positive impact which may be attributed to the clear bag pilot.

**Figure 3 - Combined Sample Group Results  
Garbage Sent to Landfill**

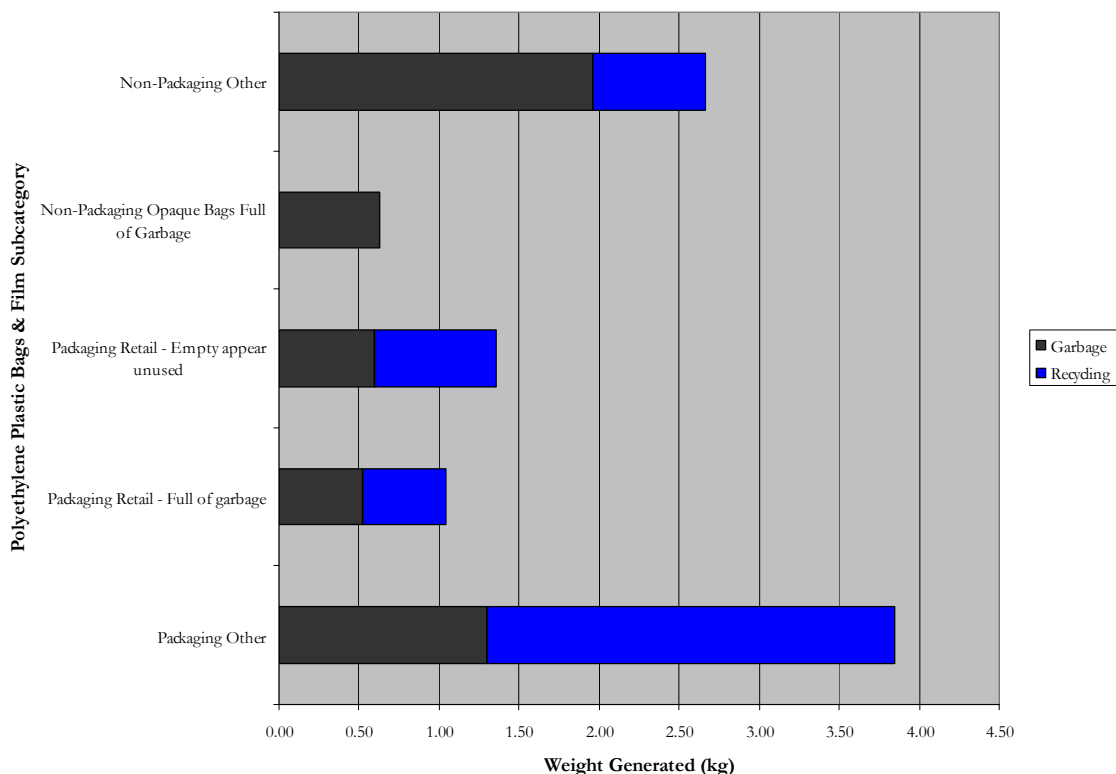


**Figure 4- Combined Sample Group Results  
Overall Waste Stream Generated (Garbage & Blue Box)**



Finally, Figure 5- Combined Sample Group Polyethylene Plastic Bags & Film Generation 2008 illustrates the results obtained when considering the plastic bags and film only as part of both the garbage and recycling streams.

Figure 5 - Combined Sample Group Polyethylene Plastic Bags & Film Generation 2008



The largest generated material was polyethylene plastic bags & film packaging other which consists of materials such as bread bags, frozen food bags, milk bags, toilet paper and paper towel packaging, overwrap, and lawn seed bags (etc...). The second largest generator was polyethylene plastic bags & film non packaging other which in turn was made up of materials such as sandwich and freezer bags or other store bought bags not used to contain garbage. No packaging retail that were empty but appeared possibly reused were encountered.

Although a larger study group would be required to confirm the initial results, the trends obtained as part of the 30 households sampled do substantiate the pilot program currently in place.

*Appendix A*  
Waste Audit Overview

# Stewardship Ontario Waste Audit Program 2007

## Single-Family Waste Audits -- Description of Audit and Notes

### Contact Information

**Municipality:** Hastings- Madoc

**Municipal Contact Name:** Marvin Tucker

**Municipal Contact Phone:** 613-394-6266

**Municipal Contact E-mail:** marvin@quinterecycling.org

**Study Conducted By (Contractor):** Integrated Environmental Waste Services

**Audit Supervisor Name:** Nina Digioacchino

**Audit Supervisor Phone:** 613-297-3339

**Audit Supervisor E-mail:** ies@cyberus.ca

**Regular Waste Collector(s)** Waste-Madoc  
Recycling QWS

**Sorting Site Address:** Belleville

### Sample Size and Timing

**No. of Households Sampled:** 3X10

**Study Start Date:** 11-Sep

**Study End Date:** 19-Sep

**Sampling Dates:** Sept 11, 17,18,19

# Stewardship Ontario Waste Audit Program 2007

## Single-Family Waste Audits -- Description of Audit and Notes

### Description of Housing and Sample Areas

(location of sample area, street names, description of sample area/neighbourhood, type of homes, average age of homes, demographics, other pertinent information that may be useful for understanding waste generation/recovery behaviour in the sample area)

**Sample Area 1:** Town of Madoc - Elgin St (# 205,206,209,210,211,214,216,217,220,225)

small town; 10 single family

**Sample Area 2:** Madoc Township - Mill (#248,254,263,393,381,377,363) & Ohara (#339,410,413)

Rural- Farming community; 10 single family

**Sample Area 3:** C. Hastings- Springbrook (#12, 21, 42, 60, 132, 200, 213, 260, 426, 520)

Rural- Farming community; 10 single family

### Information on Waste Streams and Collection Frequency

**Recyclables - Fibres:**

**Recyclables - Containers:**

**Mixed Recyclables:** weekly in Town of Madoc & Springbrook; biweekly in Township of Madoc

**Green Bin Organics:**

**Yard Waste:**

**Grass Ban or Yard Waste Ban:**

**Garbage:** weekly in Town of Madoc & Springbrook; biweekly in Township of Madoc

**Bag Limits for Garbage:** tags in Madoc

**Bag Tags for Garbage (\$):** ?

**Bulky Waste Collection:**

**White Goods:**

**Electronic Waste:**

### Notes / Observations

(pertinent information that may be useful for understanding the results, problems/issues with the audit, general observations about the waste. etc)

Missed recycling collection during second week collection in Town of Madoc

Missed recycling collection during second week collection on Springbrook

*Appendix B*  
Collection Logs

Municipality: <u>Town of Madoc</u> Sample Area <u>Elgin</u> Collection Date (month/day/year): <u>9/11/2007</u> Waste Generation Period (# of days) <u>7 days</u> Weather Conditions: <u>cloudy- rained earlier 10-25</u> Collection Team: <u>D. Laplante, B. Gaudet</u> Collection Team Supervisor: <u>N. Digoacchino</u>					
Setout	Street Name	Address		Amount of Material Set Out	
				Mixed Recycling	Garbage
1	Elgin		Number of items:**	1	2
			Number of full containers:***	0.50	2.00
2	Elgin		Number of items:	1	2
			Number of full containers:***	1.00	1.25
3	Elgin		Number of items:	2	1
			Number of full containers:***	1.50	1.00
4	Elgin		Number of items:	0	0
			Number of full containers:***	0.00	0.00
5	Elgin		Number of items:	3	1
			Number of full containers:***	2.50	0.25
6	Elgin		Number of items:	2	3
			Number of full containers:***	1.25	3.00
7	Elgin		Number of items:	2	2
			Number of full containers:***	2.00	1.00
8	Elgin		Number of items:	0	0
			Number of full containers:***	0.00	0.00
9	Elgin		Number of items:	3	1
			Number of full containers:***	2.00	1.00
10	Elgin		Number of items:	1	0
			Number of full containers:***	1.00	0.00
<b>Total number of items set out</b>				<b>15</b>	<b>12</b>
<b>Total full bag/box/cart equivalents</b>				<b>11.75</b>	<b>9.50</b>
<b>Total number of households with a setout</b>				<b>8</b>	<b>7</b>
<b>Average number of full bags/boxes/carts per house</b>				<b>1.5</b>	<b>1.4</b>
** Number of items at the curb (e.g. 1 can, 1 bag, 1 box, 1 bundle, 1 loose item). A garbage can containing 2 garbage bags would count as 2 items. *** Number of full containers = number of full blue box/bag/cart equivalents (by volume, measured to the nearest 1/4 - e.g. 2.25 bags = 2.25 containers)					
<b>Notes:</b> 10 AM collection					

Municipality: <u>Town of Madoc</u> Sample Area <u>Elgin</u> Collection Date (month/day/year): <u>9/18/2007</u> Waste Generation Period (# of days) <u>7 days</u> Weather Conditions: <u>cloudy- rained earlier 10-25</u> Collection Team: <u>D. Laplante, B. Gaudet</u> Collection Team Supervisor: <u>N. Digoacchino</u>					
Setout	Street Name	Address		Amount of Material Set Out	
				Mixed Recycling	Garbage
1	Elgin		Number of items:**	CH	3
			Number of full containers:***	CH	3.00
2	Elgin		Number of items:	CH	2
			Number of full containers:***	CH	2.00
3	Elgin		Number of items:	CH	1
			Number of full containers:***	CH	1.00
4	Elgin		Number of items:	CH	0
			Number of full containers:***	CH	0.00
5	Elgin		Number of items:	CH	1
			Number of full containers:***	CH	0.50
6	Elgin		Number of items:	CH	1
			Number of full containers:***	CH	1.00
7	Elgin		Number of items:	CH	1
			Number of full containers:***	CH	1.00
8	Elgin		Number of items:	CH	0
			Number of full containers:***	CH	0.00
9	Elgin		Number of items:	CH	1
			Number of full containers:***	CH	1.00
10	Elgin		Number of items:	CH	0
			Number of full containers:***	CH	0.00
<b>Total number of items set out</b>				<b>#VALUE!</b>	<b>10</b>
<b>Total full bag/box/cart equivalents</b>				<b>#VALUE!</b>	<b>9.50</b>
<b>Total number of households with a setout</b>				<b>0</b>	<b>7</b>
<b>Average number of full bags/boxes/carts per house</b>					<b>1.4</b>
** Number of items at the curb (e.g. 1 can, 1 bag, 1 box, 1 bundle, 1 loose item). A garbage can containing 2 garbage bags would count as 2 items. *** Number of full containers = number of full blue box/bag/cart equivalents (by volume, measured to the nearest 1/4 - e.g. 2.25 bags = 2.25 containers)					
<b>Notes:</b> 10 AM collection					

Municipality: <u>Madoc Township</u> Sample Area: <u>Mill &amp; Ohara</u> Collection Date (month/day/year): <u>9/17/2007</u> Waste Generation Period (# of days): <u>14 days</u> Weather Conditions: <u>clear 7-17</u> Collection Team: <u>D. Laplante, B. Gaudet</u> Collection Team Supervisor: <u>N. Digoacchino</u>					
Setout	Street Name	Address		Amount of Material Set Out	
				Mixed Recycling	Garbage
1	Mill		Number of items:**	0	0
			Number of full containers:***	0.00	0.00
2	Mill		Number of items:	3	6
			Number of full containers:***	3.00	5.00
3	Mill		Number of items:	4	3
			Number of full containers:***	4.00	3.00
4	Mill		Number of items:	0	0
			Number of full containers:***	0.00	0.00
5	Mill		Number of items:	3	4
			Number of full containers:***	2.50	4.00
6	Mill		Number of items:	0	0
			Number of full containers:***	0.00	0.00
7	Mill		Number of items:	0	1
			Number of full containers:***	0.00	1.00
8	Ohara		Number of items:	2	8
			Number of full containers:***	1.50	6.00
9	Ohara		Number of items:	0	0
			Number of full containers:***	0.00	0.00
10	Ohara		Number of items:	0	0
			Number of full containers:***	0.00	0.00
<b>Total number of items set out</b>				<b>12</b>	<b>22</b>
<b>Total full bag/box/cart equivalents</b>				<b>11.00</b>	<b>19.00</b>
<b>Total number of households with a setout</b>				<b>4</b>	<b>5</b>
<b>Average number of full bags/boxes/carts per house</b>				<b>2.8</b>	<b>3.8</b>
** Number of items at the curb (e.g. 1 can, 1 bag, 1 box, 1 bundle, 1 loose item). A garbage can containing 2 garbage bags would count as 2 items. *** Number of full containers = number of full blue box/bag/cart equivalents (by volume, measured to the nearest 1/4 - e.g. 2.25 bags = 2.25 containers)					
<b>Notes:</b> 8 AM garbage collection & 11 AM recycling collection rural- farms & houses					

Municipality: Centre and South Hastings Sample Area C. Hastings- Springbrook Collection Date (month/day/year): 9/12/2007 Waste Generation Period (# of days) garbage 7 days, recycling 7 Weather Conditions: clear; 12 - 25 degrees Collection Team: D. Laplante, B. Gaudet Collection Team Supervisor: N. Digoacchino					
Setout	Street Name	Address		Amount of Material Set Out	
				Mixed Recycling	Garbage
1	Springbrook		Number of items:**	3	6
			Number of full containers:***	3.00	5.50
2	Springbrook		Number of items:	0	2
			Number of full containers:***	0.00	2.00
3	Springbrook		Number of items:	0	0
			Number of full containers:***	0.00	0.00
4	Springbrook		Number of items:	0	0
			Number of full containers:***	0.00	0.00
5	Springbrook		Number of items:	12	12
			Number of full containers:***	10.00	12.00
6	Springbrook		Number of items:	3	1
			Number of full containers:***	2.50	1.00
7	Springbrook		Number of items:	3	1
			Number of full containers:***	1.50	0.50
8	Springbrook		Number of items:	0	0
			Number of full containers:***	0.00	0.00
9	Springbrook		Number of items:	2	2
			Number of full containers:***	1.50	1.50
10	Springbrook		Number of items:	0	0
			Number of full containers:***	0.00	0.00
<b>Total number of items set out</b>				<b>23</b>	<b>24</b>
<b>Total full bag/box/cart equivalents</b>				<b>18.50</b>	<b>22.50</b>
<b>Total number of households with a setout</b>				<b>5</b>	<b>6</b>
<b>Average number of full bags/boxes/carts per house</b>				<b>3.7</b>	<b>3.8</b>
** Number of items at the curb (e.g. 1 can, 1 bag, 1 box, 1 bundle, 1 loose item). A garbage can containing 2 garbage bags would count as 2 items. *** Number of full containers = number of full blue box/bag/cart equivalents (by volume, measured to the nearest 1/4 - e.g. 2.25 bags = 2.25 containers)					
<b>Notes:</b> rural- farms & houses regular recycling collection in area at 7 am; garbage at 9:00 am					

<b>Municipality:</b> Centre and South Hastings <b>Sample Area:</b> C. Hastings- Springbrook <b>Collection Date (month/day/year):</b> 9/19/2007 <b>Waste Generation Period (# of days):</b> garbage 7 days, recycling 7 <b>Weather Conditions:</b> clear; 10 - 25 degrees <b>Collection Team:</b> D. Laplante, B. Gaudet <b>Collection Team Supervisor:</b> N. Digoacchino					
Setout	Street Name	Address		Amount of Material Set Out	
				Mixed Recycling	Garbage
1	Springbrook		Number of items:**	CH	0
			Number of full containers:***	CH	0.00
2	Springbrook		Number of items:	CH	1
			Number of full containers:***	CH	1.00
3	Springbrook		Number of items:	CH	0
			Number of full containers:***	CH	0.00
4	Springbrook		Number of items:	CH	2
			Number of full containers:***	CH	2.00
5	Springbrook		Number of items:	CH	3
			Number of full containers:***	CH	3.00
6	Springbrook		Number of items:	CH	1
			Number of full containers:***	CH	1.00
7	Springbrook		Number of items:	CH	2
			Number of full containers:***	CH	2.00
8	Springbrook		Number of items:	CH	0
			Number of full containers:***	CH	0.00
9	Springbrook		Number of items:	CH	1
			Number of full containers:***	CH	1.00
10	Springbrook		Number of items:	CH	4
			Number of full containers:***	CH	5.00
<b>Total number of items set out</b>				<b>#VALUE!</b>	<b>14</b>
<b>Total full bag/box/cart equivalents</b>				<b>#VALUE!</b>	<b>15.00</b>
<b>Total number of households with a setout</b>				<b>0</b>	<b>7</b>
<b>Average number of full bags/boxes/carts per house</b>					<b>2.1</b>
** Number of items at the curb (e.g. 1 can, 1 bag, 1 box, 1 bundle, 1 loose item). A garbage can containing 2 garbage bags would count as 2 items. *** Number of full containers = number of full blue box/bag/cart equivalents (by volume, measured to the nearest 1/4 - e.g. 2.25 bags = 2.25 containers)					
<b>Notes:</b> rural- farms & houses regular recycling collection in area at ? am; garbage at 9:00 am We arrived @ the site @ 0900. Recycling had already been collected. Some residents along this route only set garbage once per month.					

Sample Area:		Madoc Township																												
Weather:		Week 2 windy 15 degrees																												
Collector's Name:		Martin Lefebvre & Nina Digioacchino																												
Notes/Observations & Address if Different from Above	House	Garbage																Recycling												
	#	Total Weight	Garbage Bags nearest 1/4	Bag Appearance			Bag Size			Privacy Bags		Container Type (Note if bag in container and what type)				# of Containers by Size (nearest 1/4)			# of Blue Boxes worth	Type of container used if not BB	Condition		Grocery / Retail Bags	Contamination	Proper Set Out	Total Weight				
				Opaque	Clear	Other:	Regular	Small	Overize	#	Exceed Size	Metal	Plastic	Rubber	Other:	Overize	Regular	Small			Inconvenient to Use & B for Broke	Overflowing								
				# of bags	# of bags	# of bags	26X32					# of containers	# of containers	# of containers	# of containers		Plus 1x26x32 bag													
		N/A																											N/A	
Week 1	Mill	248																												
	Mill	254																												
	Mill	263																												
	Mill	393																												
	Mill	381																												
	Mill	377																												
	Mill	363																												
	Ohara	339																												
	Ohara	410																												
	Ohara	413																												
<b>Week 1 Total</b>			0	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Week 2	Mill	248		0.00																										
	Mill	254		2.00		2.00		2.00		0	n											3.00		1BB + 2 bag						
	Mill	263		1.50		3.00		3.00		4	n		1.00				1.00					5.00		+ 2 bag + 1 basket						
	Mill	393		0.00																		0.00								
	Mill	381		1.00		1.00		1.00		4	n		1.00				1.00					2.00		large BB						
	Mill	377		2.00		2.00		2.00		0	n		1.00				1.00					2.00		2 BB						
	Mill	363		0.00																		0.00								
	Ohara	339		0.00																		3.00		+ 1 bag + 1 basket						
	Ohara	410		0.00																		0.00								
	Ohara	413		0.00																		2.00		2 BB						
<b>Week 2 Total</b>			0	6.50	0.00	8.00	0.00	8.00	0.00	8		0.00	3.00	0.00	0.00	0.00	3.00	0.00			17.00									
Study Total	Mill	248	0	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00									
	Mill	254	0	2.00	0.00	2.00	0.00	2.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00			3.00									
	Mill	263	0	1.50	0.00	3.00	0.00	3.00	0.00	4		0.00	1.00	0.00	0.00	0.00	1.00	0.00			5.00									
	Mill	393	0	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00									
	Mill	381	0	1.00	0.00	1.00	0.00	1.00	0.00	4		0.00	1.00	0.00	0.00	0.00	1.00	0.00			2.00									
	Mill	377	0	2.00	0.00	2.00	0.00	2.00	0.00	0		0.00	1.00	0.00	0.00	0.00	1.00	0.00			2.00									
	Mill	363	0	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00									
	Ohara	339	0	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00			3.00									
	Ohara	410	0	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00									
	Ohara	413	0	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00			2.00									
<b>Study Total</b>			0	6.50	0.00	8.00	0.00	8.00	0.00	8		0.00	3.00	0.00	0.00	0.00	3.00	0.00			17.00									



Sample Area:		Springbrook																														
Weather:		Week 1 Sunny 10 degrees / Week 2 sunny 15 degrees																														
Collector's Name:		Martin Lefebvre & Nina Digioacchino																														
Notes/Observations & Address if Different from Above	House	Garbage													Recycling																	
	#	Total Weight	Garbage Bags nearest 1/4	Bag Appearance			Bag Size			Privacy Bags		Container Type (Note if bag in container and what type)				# of Containers by Size (nearest 1/4)			Condition													
				Opaque	Clear	Other:	Regular	Small	Over-size	#	Exceed Size	Metal	Plastic	Rubber	Other:	Over-size	Regular	Small	# of Blue Boxes worth	Type of container used if not BB	Inconvenient to Use & B for Broke	Overflowing	Grocery / Retail Bags	Contamination	Proper Set Out	Total Weight						
				# of bags	# of bags	# of bags	26X32				# of containers	# of containers	# of containers	# of containers		Plus 1x26x32 bag																
	Springbrook	12	N/A																										N/A			
	Springbrook	21	0.00																													
	Springbrook	42	1.00		1.00		1.00			0																						
	Springbrook	60	0.00																													
	Springbrook	132	0.00																													
	Springbrook	200	2.00		2.00		1.00		1.00	1	n													5.00	3BB + 2OCC		y	n	n	y		
	Springbrook	213	0.00																													
	Springbrook	260	0.50		1.00				1.00	0																						
	Springbrook	260	0.00																													
	Springbrook	426	2.00		2.00		1.00		2.00	0															3.00	large BB		n	y	n	y	
	Springbrook	520	0.00																						2.00	BB		n	y	n	y	
	<b>Week 1 Total</b>		0	5.50	0.00	6.00	1.00	4.00	1.00	1.00	0		0.00	2.00	0.00	0.00	0.00	2.00	0.00	10.00												
	Springbrook	12	0.00																													
	Springbrook	21	0.75		1.00		1.00			0																						
	Springbrook	42	0.00																													
	Springbrook	60	0.00																													
	Springbrook	132	0.00																													
	Springbrook	200	0.00																						3.00	2BB + 1 OCC		n	n	n	y	
	Springbrook	213	0.25		1.00				1.00	1	n														2.00	baskets		n	n	n	y	
	Springbrook	260	0.00																													
	Springbrook	426	0.00																													
	Springbrook	520	0.00																													
	<b>Week 2 Total</b>		0	1.00	0.00	2.00	0.00	1.00	1.00	0.00	1		0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	7.00											
	Springbrook	12	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00											
	Springbrook	21	0	1.75	0.00	2.00	0.00	2.00	0.00	0.00	0		0.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00											
	Springbrook	42	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00											
	Springbrook	60	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00											
	Springbrook	132	0	2.00	0.00	2.00	0.00	1.00	0.00	1.00	1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00											
	Springbrook	200	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00											
	Springbrook	213	0	0.75	0.00	2.00	0.00	0.00	2.00	0.00	1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00											
	Springbrook	260	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00											
	Springbrook	426	0	2.00	0.00	2.00	1.00	2.00	0.00	0.00	0		0.00	1.00	0.00	0.00	0.00	1.00	0.00	3.00												
	Springbrook	520	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0.00	0.00	0.00	0.00	0.00	0.00	2.00													
	<b>Study Total</b>		0	6.50	0.00	8.00	1.00	5.00	2.00	1.00	2		0.00	3.00	0.00	0.00	0.00	3.00	0.00	17.00												

*Appendix C*  
Detailed Sort Results

Municipality:	C. Hastings	C. Hastings	C. Hastings	C. Hastings	Town of Madoc	Town of Madoc	Town of Madoc
Sample Area:	Springbrook	Springbrook	Springbrook	Springbrook	Springbrook	Springbrook	Springbrook
Waste Stream:	Garbage	Recycling	Garbage	Recycling	Garbage	Recycling	Capex Rate
Date Collected (month/day/year):	9/10/2008	9/10/2008	9/17/2008	9/17/2008	2 Week Total	2 Week Total	2 Week Total
Waste Generation Period (number of days):	7	7	7	7			
Audit Supervisor:	Martin LeFebvre	Martin LeFebvre	Martin LeFebvre	Martin LeFebvre			
Notes:							
Material Category							
<b>1. PAPER</b>							
Newspaper - Daily and Weekly	0.00	0.08	0.00	3.26	0.00	3.34	100.00%
Newspaper - Other	0.00	1.75	0.00	4.57	0.00	6.31	100.00%
Telephone Books / Directories	0.00	0.00	0.00	0.00	0.00	0.00	
Magazines & Catalogues	0.00	0.00	0.00	0.84	0.00	0.84	100.00%
Mixed Fine Paper	0.24	4.00	0.02	0.78	0.25	4.78	95.02%
Books	0.12	0.00	0.00	0.00	0.12	0.00	0.00%
Other Paper	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total Paper</b>	<b>0.35</b>	<b>5.83</b>	<b>0.02</b>	<b>9.44</b>	<b>0.37</b>	<b>15.27</b>	<b>3.96</b>
<b>2. PAPER PACKAGING</b>							
Corrugated Waste Bags or Boxes	0.00	0.00	0.00	0.00	0.00	0.00	
Other Corrugated	0.00	1.46	0.01	1.47	0.01	2.93	99.66%
Recycled Paper	0.03	0.02	0.02	0.03	0.05	0.05	50.00%
Reboard / Cases	0.38	1.21	0.02	0.59	0.40	1.79	81.74%
Molded Pulp	0.00	0.00	0.00	0.02	0.00	0.02	100.00%
Paper Caps and Paper Ins-Ceans Containers	0.01	0.00	0.00	0.03	0.01	0.03	
Laminated Paper Packaging	0.34	0.11	0.07	0.01	0.40	0.12	
Composite Cans	0.04	0.23	0.00	0.00	0.04	0.23	86.79%
Cable Top Cartons	0.05	0.02	0.00	0.28	0.05	0.29	85.29%
Asseptic Alcohol Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Asseptic Alcohol 630 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Asseptic Other Containers	0.70	0.22	0.00	0.04	0.70	0.26	27.23%
Tissue/ Toweling	2.93	0.00	0.87	0.01	3.79	0.01	
<b>Total Paper Packaging</b>	<b>4.46</b>	<b>3.26</b>	<b>0.98</b>	<b>2.45</b>	<b>3.44</b>	<b>3.71</b>	<b>3.31</b>
<b>3. PLASTICS</b>							
PET Beer Bottles Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
PET Beer Bottles 630 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
PET Other Alcohol Bottles Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
PET Other Alcohol Bottles 100 ml and Less Than or Equal to 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
PET Other Alcohol Bottles 100 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
PET Other Beverage Bottles	0.00	1.53	0.00	0.51	0.00	2.23	100.00%
PET Other Bottles & Jugs	0.00	0.86	0.00	0.21	0.00	1.17	100.00%
PET Other Packaging	0.00	0.14	0.00	0.03	0.00	0.17	100.00%
HDPE Beverage Bottles	0.00	0.05	0.00	0.00	0.00	0.05	100.00%
HDPE Other Bottles & Jugs	0.23	0.37	0.05	0.12	0.28	0.49	65.40%
PVC Bottles & Jugs	0.12	0.00	0.00	0.00	0.12	0.00	90.90%
Other Plastic Alcohol Containers 100 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Other Bottles, Jars & Jugs	0.14	0.04	0.00	0.01	0.14	0.05	27.03%
Polystyrene Packaging	0.13	0.39	0.05	1.52	0.18	1.91	91.59%
Wide Mouth Tubs & Lids	0.10	0.44	0.00	0.10	0.10	0.54	85.00%
Large HDPE & PP Pails & Lids	0.00	0.17	0.00	0.00	0.00	0.17	100.00%
Polyethylene Plastic Bags & Film - Packaging	0.24	0.12	0.12	0.01	1.51	2.70	64.13%
Polyethylene Plastic Bags & Film - Non Packaging	0.29	0.15	0.10	0.00	1.46	0.27	15.41%
Laminated Pouches & Bag in Box Liners for Alcohol	0.00	0.00	0.00	0.00	0.00	0.00	
Laminated Other Plastic Film and Bags	0.09	0.07	0.15	0.01	0.84	0.07	
Other Retail Plastic Packaging	0.19	0.48	0.01	0.20	0.19	0.67	
Durable Plastic Products	1.66	0.00	0.00	0.05	1.67	0.05	
<b>Total Plastics</b>	<b>3.76</b>	<b>4.39</b>	<b>0.47</b>	<b>3.23</b>	<b>6.46</b>	<b>10.31</b>	<b>8.47</b>
<b>4. METALS</b>							
Aluminum Alcohol Beverage Cans Over 1 L	0.00	0.00	0.00	0.00	0.00	0.00	
Aluminum Alcohol Beverage Cans 1 L and Under	0.00	0.00	0.00	0.51	0.00	0.51	100.00%
Aluminum Food & Other Beverage Cans	0.00	1.37	0.00	0.38	0.00	0.75	100.00%
Aluminum Food & Pot Trays	0.13	0.00	0.11	0.01	0.23	0.01	4.37%
Other Aluminum Containers	0.00	0.00	0.00	0.07	0.00	0.07	100.00%
Steel Alcohol Beverage Cans Over 1 L	0.00	0.00	0.00	0.00	0.00	0.00	
Steel Alcohol Beverage Cans 1 L and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Steel Food & Other Beverage Cans	0.00	1.45	0.00	3.25	0.00	4.70	100.00%
Steel Aerosol Cans	0.00	0.00	0.00	0.14	0.00	0.14	100.00%
Steel Paint Cans	0.00	0.00	0.00	0.00	0.00	0.00	
Other Metal	0.12	0.21	0.00	0.00	0.28	0.00	
<b>Total Metals</b>	<b>0.38</b>	<b>2.03</b>	<b>0.11</b>	<b>4.36</b>	<b>0.48</b>	<b>6.28</b>	<b>5.04</b>
<b>5. GLASS</b>							
Clear Glass Beer Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Beer 630 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Other Alcohol Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Other Alcohol 100 ml and Less Than or Equal to 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Other Alcohol 100 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Coloured Glass Beer Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Coloured Glass Beer 630 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Coloured Glass Other Alcohol Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Coloured Glass Other Alcohol 100 ml and Less Than or Equal to 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Coloured Glass Other Alcohol 100 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Other Beverage and Food	0.84	7.03	0.00	1.03	0.84	8.08	90.58%
Coloured Glass Other Beverage and Food	0.00	0.21	0.00	0.00	0.00	0.21	100.00%
Other Glass	1.36	0.00	0.00	0.00	1.36	0.00	
<b>Total Glass</b>	<b>2.20</b>	<b>7.24</b>	<b>0.00</b>	<b>1.05</b>	<b>2.20</b>	<b>8.28</b>	<b>1.91</b>
<b>6. HOUSEHOLD SPECIAL WASTE</b>							
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	
Tires & Saws	0.00	0.00	0.00	0.00	0.00	0.00	
Motor Oil	0.00	0.00	0.00	0.00	0.00	0.00	
Other HSW liquids	0.00	0.00	0.00	0.00	0.00	0.00	
Other HSW	0.12	0.00	0.00	0.00	0.12	0.00	
<b>Total HSW</b>	<b>0.12</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.12</b>	<b>0.00</b>	<b>0.00</b>
<b>7. ORGANICS</b>							
Food Waste	8.09	0.37	3.64	0.28	11.72	0.64	
Yard Waste	0.00	0.00	0.00	0.00	0.00	0.00	
Pe-waste	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total Organics</b>	<b>8.09</b>	<b>0.37</b>	<b>3.64</b>	<b>0.28</b>	<b>11.72</b>	<b>0.64</b>	<b>0.00</b>
<b>8. OTHER MATERIALS</b>							
Diapers and Sanitary Products	1.70	0.00	0.05	0.00	1.75	0.00	
Textiles	1.81	0.00	0.15	0.00	1.96	0.00	
Carpeting	0.00	0.00	0.00	0.00	0.00	0.00	
Construction & Renovation	0.63	0.00	0.00	0.00	0.63	0.00	
Computer / IT Equipment	0.00	0.00	0.00	0.00	0.00	0.00	
Telecoms Equipment	0.00	0.00	0.00	0.00	0.00	0.00	
TV & Audio Equipment	0.00	0.00	0.00	0.00	0.00	0.00	
Small Kitchen Appliances	0.00	0.00	0.00	0.00	0.00	0.00	
Other Electronics	0.19	0.00	0.00	0.00	0.19	0.00	
Tires and Other Rubber	0.00	0.00	0.00	0.00	0.00	0.00	
Ceramics	0.00	0.00	0.00	0.00	0.00	0.00	
Furniture	0.00	0.00	0.00	0.00	0.00	0.00	
Mattresses	0.00	0.00	0.00	0.00	0.00	0.00	
Other Large Bulky Items	0.00	0.00	0.00	0.00	0.00	0.00	
Other Waste	0.08	0.04	0.07	0.00	1.07	0.04	
<b>Total Other Materials</b>	<b>5.29</b>	<b>0.09</b>	<b>0.29</b>	<b>0.29</b>	<b>5.58</b>	<b>0.09</b>	<b>0.00</b>
<b>Grand Total</b>	<b>24.64</b>	<b>24.29</b>	<b>5.50</b>	<b>20.80</b>	<b>32.37</b>	<b>47.78</b>	<b>24.67</b>
<b>Contamination</b>						<b>2.63</b>	
<b>Blue Box Total without Contamination</b>						<b>45.15</b>	<b>56.34%</b>

Municipality:	Madoc Township	Madoc Township	Madoc Township	Madoc Township	
	Sample Area: Mill & Churn	Mill & Churn	Mill & Churn	Mill & Churn	
Waste Stream:	Garbage	Recycling	Garbage	Recycling	apture Rate
Date Collected (month/day/year):	07/15/2008	07/15/2008	2 Week Total	2 Week Total	
Waste Generation Period (number of days):	14	14			
Audit Supervisor:	Martin	Martin			
Notes:					
Material Category					
<b>1. PAPER</b>					
Newspaper - Daily and Weekly	0.00	0.20	0.00	0.20	100.00%
Newspaper - Other	0.24	1.15	0.24	1.15	82.79%
Telephone Books / Directories	0.00	0.00	0.00	0.00	
Magazines & Catalogs	0.00	0.25	0.00	0.25	100.00%
Mixed Fine Paper	0.95	0.37	0.95	0.37	37.92%
Books	0.00	0.00	0.00	0.00	
Other Paper	0.00	0.00	0.00	0.00	
<b>Total Paper</b>	<b>1.22</b>	<b>2.17</b>	<b>1.22</b>	<b>2.17</b>	<b>3.21</b>
<b>2. PAPER PACKAGING</b>					
Corrugated Wine Bag or Box	0.00	0.00	0.00	0.00	
Other Corrugated	0.00	1.70	0.00	1.70	100.00%
Recall Paper	0.14	0.07	0.14	0.07	31.71%
Board / Covers	0.50	2.99	0.50	2.99	85.63%
Market Paper	0.10	0.00	0.10	0.00	100.00%
Paper Caps and Paper Ice-Cream Containers	0.00	0.18	0.00	0.18	
Laminated Paper Packaging	0.34	0.24	0.34	0.24	
Composite Cans	0.00	0.50	0.00	0.50	100.00%
Card-Top Cans	0.00	0.28	0.00	0.28	100.00%
Aseptic Alcohol 630 ml and Under	0.00	0.00	0.00	0.00	
Aseptic Alcohol 630 ml and Under	0.00	0.00	0.00	0.00	
Aseptic Other Containers	0.00	0.38	0.00	0.38	100.00%
Tissue/Toweling	2.49	0.00	2.49	0.00	
<b>Total Paper Packaging</b>	<b>3.86</b>	<b>6.31</b>	<b>3.86</b>	<b>6.31</b>	<b>8.17</b>
<b>3. PLASTICS</b>					
PET Beer Bottles Over 630 ml	0.00	0.00	0.00	0.00	
PET Beer Bottles 630 ml and Under	0.00	0.00	0.00	0.00	
PET Other Alcohol Bottles Over 630 ml	0.00	0.06	0.00	0.06	100.00%
PET Other Alcohol Bottles 100 ml and Less Than or Equal to 630 ml	0.00	0.10	0.00	0.10	100.00%
PET Other Beverage Bottles	0.00	0.00	0.00	0.00	
PET Other Bottles & Jars	0.10	2.51	0.10	2.51	96.10%
PET Other Packaging	0.00	1.61	0.00	1.61	100.00%
HDPE Beverage Bottles	0.00	0.45	0.00	0.45	100.00%
HDPE Other Bottles & Jugs	0.10	2.07	0.10	2.07	95.39%
PVC Bottles & Jars	0.00	0.06	0.00	0.06	100.00%
Other Plastic Alcohol Containers 100 ml and Under	0.00	0.00	0.00	0.00	
Other Bottles, Jars & Jugs	0.00	0.14	0.00	0.14	100.00%
Polystyrene Packaging	0.43	0.67	0.43	0.67	60.91%
Wax Mount Tubs & Lids	0.02	0.84	0.02	0.84	97.66%
Large HDPE & PP Pails & Lids	0.00	0.00	0.00	0.00	
Polyethylene Plastic Bags & Film - Packaging	0.55	1.01	0.55	1.01	64.74%
Polyethylene Plastic Bags & Film - Non-Packaging	0.75	0.29	0.75	0.29	27.88%
Laminated Pouches & Bag in Box Liners for Alcohol	0.00	0.00	0.00	0.00	
Laminated Other Plastic Film and Bags	0.92	0.41	0.92	0.41	
Other Rigid Plastic Packaging	1.00	0.62	1.00	0.62	
Disposable Plastic Products	0.32	1.44	0.32	1.44	
<b>Total Plastics</b>	<b>4.28</b>	<b>12.85</b>	<b>4.24</b>	<b>12.85</b>	<b>11.43</b>
<b>4. METALS</b>					
Aluminum Alcoholic Beverage Cans Over 1 L	0.00	0.00	0.00	0.00	
Aluminum Alcoholic Beverage Cans 1 L and Under	0.00	0.27	0.00	0.27	100.00%
Aluminum Food & Other Beverage Cans	0.00	1.20	0.00	1.20	100.00%
Aluminum Food & Food Tins	0.14	0.23	0.14	0.23	63.01%
Other Aluminum Containers	0.00	0.00	0.00	0.00	
Steel Alcoholic Beverage Cans Over 1 L	0.00	0.00	0.00	0.00	
Steel Alcoholic Beverage Cans 1 L and Under	0.00	0.00	0.00	0.00	
Steel Food & Other Beverage Cans	0.10	5.54	0.10	5.54	98.23%
Steel Aerosol Cans	0.00	0.37	0.00	0.37	100.00%
Steel Paint Cans	0.00	0.00	0.00	0.00	
Other Metal	0.00	0.00	0.00	0.00	
<b>Total Metals</b>	<b>0.27</b>	<b>7.43</b>	<b>0.27</b>	<b>7.43</b>	<b>4.61</b>
<b>5. GLASS</b>					
Clear Glass Beer Over 630 ml	0.00	0.00	0.00	0.00	
Clear Glass Beer 630 ml and Under	0.00	0.00	0.00	0.00	
Clear Glass Other Alcohol Over 630 ml	0.00	0.00	0.00	0.00	
Clear Glass Other Alcohol 100 ml and Less Than or Equal to 630 ml	0.00	0.63	0.00	0.63	100.00%
Clear Glass Other Alcohol 100 ml and Under	0.00	0.00	0.00	0.00	
Coloured Glass Beer Over 630 ml	0.00	0.00	0.00	0.00	
Coloured Glass Beer 630 ml and Under	0.00	0.00	0.00	0.00	
Coloured Glass Other Alcohol Over 630 ml	0.00	0.00	0.00	0.00	
Coloured Glass Other Alcohol 100 ml and Less Than or Equal to 630 ml	0.00	0.00	0.00	0.00	
Coloured Glass Other Alcohol 100 ml and Under	0.00	0.00	0.00	0.00	
Clear Glass Other Beverage and Food	0.00	5.51	0.00	5.51	100.00%
Coloured Glass Other Beverage and Food	0.00	0.10	0.00	0.10	100.00%
Other Glass	0.04	0.62	0.04	0.62	
<b>Total Glass</b>	<b>0.08</b>	<b>6.85</b>	<b>0.04</b>	<b>6.85</b>	<b>3.00</b>
<b>6. HOUSEHOLD SPECIAL WASTE</b>					
Batteries	0.14	0.03	0.14	0.03	
Paint & Stain	0.00	0.00	0.00	0.00	
Motor Oil	0.00	0.00	0.00	0.00	
Other HSW Liquids	0.00	0.00	0.00	0.00	
Other HSW	0.00	0.00	0.00	0.00	
<b>Total HSW</b>	<b>0.14</b>	<b>0.03</b>	<b>0.14</b>	<b>0.03</b>	<b>0.00</b>
<b>7. ORGANICS</b>					
Food Waste	41.53	0.11	41.53	0.11	
Yard Waste	0.00	0.00	0.00	0.00	
Pet waste	0.00	0.00	0.00	0.00	
<b>Total Organics</b>	<b>41.53</b>	<b>0.11</b>	<b>41.53</b>	<b>0.11</b>	<b>0.00</b>
<b>8. OTHER MATERIALS</b>					
Diapers and Sanitary Products	15.67	0.02	15.67	0.02	
Textiles	2.96	0.00	2.96	0.00	
Appliances	0.00	0.00	0.00	0.00	
Construction & Renovation	0.00	0.00	0.00	0.00	
Computer / IT Equipment	0.00	0.00	0.00	0.00	
Telecom Equipment	0.00	0.00	0.00	0.00	
TV & Audio Equipment	0.10	0.00	0.10	0.00	
Small Kitchen Appliances	0.00	0.00	0.00	0.00	
Other Electronics	0.00	0.00	0.00	0.00	
Tires and Other Rubber	0.00	0.00	0.00	0.00	
Upholstery	0.00	0.00	0.00	0.00	
Mattresses	0.00	0.00	0.00	0.00	
Other Large Bulky Items	0.00	0.00	0.00	0.00	
Other Waste	2.52	0.01	2.52	0.01	
<b>Total Other Materials</b>	<b>21.20</b>	<b>0.03</b>	<b>21.20</b>	<b>0.03</b>	<b>0.00</b>
<b>Grand Total</b>	<b>72.89</b>	<b>35.64</b>	<b>72.89</b>	<b>35.64</b>	<b>27.42</b>
<b>Contamination</b>				<b>3.25</b>	
<b>Blue Box Total without Contamination</b>			<b>32.40</b>		<b>30.07%</b>

Municipality:	Town of Madoc	Town of Madoc	Town of Madoc	Town of Madoc	Town of Madoc	Town of Madoc	Town of Madoc
	Elgin	Elgin	Elgin	Elgin	Elgin	Elgin	Elgin
Sample Area:							
Waste Stream:	Garbage	Recycling	Garbage	Recycling	Garbage	Recycling	Capture Rate
Date Collected (month/day/year):	9/9/2008	9/9/2008	9/16/2008	9/16/2008	2 Week	2 Week	2 Week
Waste Generation Period (number of days):	7	7	7	7			
Audit Supervisor:	Martin Lefebvre	Martin	Martin	Martin			
Notes:							
Material Category							
<b>1. PAPER</b>							
Newspaper - Daily and Weeklys	0.00	6.24	0.00	2.97	0.00	0.21	100.00%
Newspaper - Other	0.00	10.17	0.00	5.91	0.00	16.08	100.00%
Telephone Books / Directories	0.00	0.25	0.00	0.00	0.00	0.28	100.00%
Magazines & Catalogues	0.00	4.70	1.22	0.03	1.22	4.73	79.55%
Mixed Fine Paper	0.90	0.93	3.56	1.17	4.05	2.10	34.12%
Books	0.00	0.00	0.00	0.00	0.00	0.00	
Other Paper	0.13	0.63	0.00	0.03	0.13	0.86	
<b>Total Paper</b>	<b>0.63</b>	<b>22.33</b>	<b>4.78</b>	<b>10.10</b>	<b>5.39</b>	<b>32.43</b>	<b>4.14</b>
<b>2. PAPER PACKAGING</b>							
Corrugated Waste Bag in Box	0.00	0.00	0.00	0.00	0.00	0.00	
Other Corrugated	0.05	4.31	0.07	4.30	0.12	8.61	96.62%
Recall Paper	0.09	0.07	0.04	0.08	0.13	0.15	54.55%
Woodboard / Gypsum	0.83	3.99	1.36	2.64	2.19	6.63	75.20%
Reclaimed Paper	0.00	0.22	0.00	0.11	0.00	0.33	100.00%
Paper Cups and Paper Ice-Cream Containers	0.14	0.05	0.28	0.07	0.42	0.12	
Laminated Paper Packaging	0.25	0.17	0.22	0.67	0.47	0.84	
Composite Cans	0.14	0.23	0.10	0.00	0.24	0.23	48.91%
Table Top Cardboard	0.02	0.42	0.00	0.25	0.02	0.67	97.79%
Isopic Alcohol Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Isopic Alcohol 630 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Isopic Other Containers	0.00	0.11	0.06	0.15	0.06	0.26	82.54%
Tissue/Toweling	0.89	0.05	1.24	0.04	2.13	0.09	
<b>Total Paper Packaging</b>	<b>2.39</b>	<b>9.61</b>	<b>3.33</b>	<b>8.29</b>	<b>5.74</b>	<b>17.89</b>	<b>3.88</b>
<b>3. PLASTICS</b>							
PET Beer Bottles Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
PET Beer Bottles 630 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
PET Other Alcohol Bottles Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
PET Other Alcohol Bottles Over 100 ml and Less Than or Equal to 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
PET Other Alcohol Bottles 100 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
PET Other Beverage Bottles	0.20	0.54	0.15	1.40	0.55	1.50	84.84%
PET Other Bottles & Jars	0.05	0.24	0.05	0.36	0.10	1.00	90.87%
PET Other Packaging	0.06	0.13	0.14	0.29	0.19	0.41	68.53%
HDPE Beverage Bottles	0.00	0.03	0.00	0.00	0.00	0.03	100.00%
HDPE Other Bottles & Jugs	0.39	1.50	0.20	1.42	0.59	2.72	82.30%
PVC Bottles & Jars	0.00	0.00	0.00	0.00	0.00	0.00	
Other Plastic Alcohol Containers 100 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Other Bottles, Jars & Jugs	0.06	0.12	0.10	0.10	0.16	0.22	57.89%
Polystyrene Packaging	0.10	0.56	0.14	0.54	0.24	1.10	82.33%
Single Mouth Tubs & Lids	0.05	0.34	0.16	0.40	0.20	0.74	78.72%
Large HDPE & PP Pails & Lids	0.00	0.00	0.00	0.00	0.00	0.00	
Polyethylene Plastic Bags & Film - Packaging	0.75	1.28	0.78	1.42	1.51	2.70	64.13%
Polyethylene Plastic Bags & Film - Non-Packaging	0.70	0.07	0.76	0.20	1.46	0.27	15.41%
Laminated Pouches & Bag in Box Liners for Alcohol	0.00	0.00	0.00	0.00	0.00	0.00	
Laminated Other Plastic Film and Bags	0.70	0.65	0.84	0.55	1.54	1.16	
Other Rigid Plastic Packaging	0.52	0.46	0.28	0.27	0.80	0.73	
Durable Plastic Products	0.65	0.00	0.47	0.12	1.10	0.12	
<b>Total Plastics</b>	<b>4.17</b>	<b>6.80</b>	<b>4.85</b>	<b>7.02</b>	<b>8.22</b>	<b>13.10</b>	<b>7.23</b>
<b>4. METALS</b>							
Aluminum Alcoholic Beverage Cans Over 1 L	0.00	0.00	0.00	0.00	0.00	0.00	
Aluminum Alcoholic Beverage Cans 1 L and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Aluminum Food & Other Beverage Cans	0.02	0.24	0.02	0.13	0.04	0.37	91.25%
Aluminum Food & Tool Trays	0.14	0.08	0.22	0.07	0.35	0.15	29.29%
Other Aluminum Containers	0.00	0.00	0.00	0.00	0.00	0.00	
Steel Alcoholic Beverage Cans Over 1 L	0.00	0.00	0.00	0.00	0.00	0.00	
Steel Alcoholic Beverage Cans 1 L and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Steel Food & Other Beverage Cans	0.41	1.86	0.31	1.11	0.72	2.97	80.57%
Steel Aerosol Cans	0.22	0.59	0.10	0.10	0.22	0.68	75.08%
Steel Plant Cans	0.00	0.00	0.00	0.00	0.00	0.00	
Other Metals	0.47	0.00	0.00	0.00	0.54	0.54	
<b>Total Metals</b>	<b>1.24</b>	<b>2.76</b>	<b>0.63</b>	<b>1.43</b>	<b>1.87</b>	<b>4.39</b>	<b>2.77</b>
<b>5. GLASS</b>							
Clear Glass Beer Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Beer 630 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Other Alcoholic Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Other Alcoholic Over 100 ml and Less Than or Equal to 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Other Alcoholic 100 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	100.00%
Coloured Glass Beer Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Coloured Glass Beer 630 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Coloured Glass Other Alcoholic Over 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Coloured Glass Other Alcoholic Over 100 ml and Less Than or Equal to 630 ml	0.00	0.00	0.00	0.00	0.00	0.00	
Coloured Glass Other Alcoholic 100 ml and Under	0.00	0.00	0.00	0.00	0.00	0.00	
Clear Glass Other Beverage and Food	1.48	5.37	0.88	0.62	2.35	3.99	62.90%
Coloured Glass Other Beverage and Food	0.00	0.00	0.00	0.00	0.00	0.00	
Other Glass	0.18	0.11	0.61	0.00	0.78	0.11	
<b>Total Glass</b>	<b>1.65</b>	<b>3.56</b>	<b>1.48</b>	<b>0.70</b>	<b>3.13</b>	<b>4.26</b>	<b>1.63</b>
<b>6. HOUSEHOLD SPECIAL WASTE</b>							
Batteries	0.57	0.00	0.27	0.00	0.84	0.00	
Paint & Stain	0.00	0.00	0.00	0.00	0.00	0.00	
Motor Oil	0.00	0.00	0.00	0.00	0.00	0.00	
Other HSW Liquids	0.00	0.00	0.00	0.00	0.00	0.00	
Other HSW	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total HSW</b>	<b>0.57</b>	<b>0.00</b>	<b>0.27</b>	<b>0.00</b>	<b>0.84</b>	<b>0.00</b>	<b>0.00</b>
<b>7. ORGANICS</b>							
Food Waste	24.54	0.05	26.00	0.06	50.55	0.11	
Yard Waste	6.46	0.00	0.00	0.00	6.46	0.00	
Pvc waste	13.62	0.00	13.88	0.00	29.50	0.00	
<b>Total Organics</b>	<b>44.62</b>	<b>0.05</b>	<b>41.88</b>	<b>0.06</b>	<b>85.70</b>	<b>0.11</b>	<b>0.00</b>
<b>8. OTHER MATERIALS</b>							
Diapers and Sanitary Products	11.44	0.00	11.89	0.00	23.33	0.00	
Textiles	5.76	0.00	0.19	0.81	5.94	0.81	
Appliances	0.00	0.00	0.00	0.00	0.00	0.00	
Construction & Renovation	0.84	0.77	0.00	0.00	0.84	0.97	
Computer / IT Equipment	0.00	0.00	0.00	0.00	0.00	0.00	
Telecom Equipment	0.00	0.00	0.00	0.00	0.00	0.00	
TV & Audio Equipment	0.00	0.00	0.00	0.00	0.00	0.00	
Small Kitchen Appliances	0.00	0.00	0.00	0.00	0.00	0.00	
Other Electronics	0.00	0.00	0.00	0.00	0.00	0.00	
Tires and Other Rubber	0.00	0.00	0.00	0.00	0.00	0.00	
Automats	0.00	0.00	0.67	0.00	0.67	0.00	
Mattresses	0.00	2.52	0.00	0.00	0.00	2.52	
Other Large Bulky Items	0.00	0.00	0.00	0.00	0.00	0.00	
Other Waste	2.27	0.00	1.48	0.00	3.75	0.04	
<b>Total Other Materials</b>	<b>20.24</b>	<b>3.53</b>	<b>14.42</b>	<b>0.81</b>	<b>34.63</b>	<b>4.33</b>	<b>0.00</b>
<b>Grand Total</b>	<b>74.67</b>	<b>47.90</b>	<b>70.88</b>	<b>28.39</b>	<b>148.52</b>	<b>76.29</b>	<b>21.36</b>
<b>Contamination</b>						<b>6.73</b>	
<b>Blue Box Total without Contamination</b>						<b>69.57</b>	<b>31.30%</b>

Municipality:				
Sample Area:		All Areas Combined		
Waste Stream:		Garbage	Recycling	Expire Rate
Date Collected (month/day/year):		2 Week Total		
Waste Generation Period (number of days):				
Audit Supervisor:				
Notes:				
Material Category	Accepted? (X" if accepted in recycling or organics program)			
<b>1. PAPER</b>				
Newspaper - Dailies and Weeklies	x	1.89	11.56	85.99%
Newspaper - Other	x	2.66	34.53	92.81%
Telephone Books / Directories	x	0.00	3.77	100.00%
Magazines & Catalogues	x	1.12	3.48	75.47%
Mixed Fine Paper	x	6.78	9.12	57.56%
Books	x	0.00	1.92	100.00%
Other Paper	x	0.86	1.44	
<b>Total Paper</b>		<b>13.31</b>	<b>65.89</b>	<b>5.12</b>
<b>2. PAPER PACKAGING</b>				
Corrugated Wire Bag on Box	x	0.00	0.00	
Other Corrugated	x	0.70	22.99	97.04%
Recyl Paper	x	1.80	0.76	29.76%
Boxboard / Lanes	x	9.49	17.02	64.21%
Molded Pulp	x	0.78	0.34	30.50%
Paper Cups and Paper Ice-Cream Containers	x	1.17	0.17	
Laminated Paper Packaging	x	2.81	1.73	
Composite Cans	x	1.10	0.13	10.57%
Gable Top Cartons	x	0.68	2.29	77.97%
Aseptic Alcohol Over 630 ml	x	0.00	0.00	
Aseptic Alcohol 630 ml and Under	x	0.00	0.00	
Aseptic Other Containers	x	1.75	0.57	43.35%
Gluing / Glazing	x	14.56	0.20	
<b>Total Paper Packaging</b>		<b>34.63</b>	<b>45.78</b>	<b>3.52</b>
<b>3. PLASTICS</b>				
PET Beer Bottles Over 630 ml	x	0.00	0.00	
PET Beer Bottles 630 ml and Under	x	0.00	0.00	
PET Other Alcohol Bottles Over 630 ml	x	0.00	0.00	
PET Other Alcohol Bottles Over 100 ml and Less	x	0.05	0.09	64.29%
PET Other Alcohol Bottles 100 ml and Under	x	0.00	0.00	
PET Other Beverage Bottles	x	1.12	4.44	85.54%
PET Other Bottles & Jars	x	0.72	1.52	67.99%
PET Other Packaging	x	0.20	1.35	87.10%
HDP/PE Beverage Bottles	x	0.04	0.87	95.69%
HDP/PE Other Bottles & Jugs	x	2.58	2.45	74.43%
PVC Bottles & Jars	x	0.02	0.44	95.03%
Other Plastic Alcohol Containers 100 ml and Under	x	0.00	0.00	
Other Bottles, Jars & Jugs	x	0.43	0.30	40.27%
Polystyrene Packaging	x	2.81	1.07	27.54%
Wash Mouth Tubs & Lids	x	1.08	1.44	60.57%
Large HDPE & PP Tubs & Lids	x	0.84	0.00	0.00%
Polyethylene Plastic Bags & Film - Packaging	x	8.98	4.32	32.49%
Polyethylene Plastic Bags & Film - Non-Packaging	x	5.41	0.34	9.13%
Laminated Pouches & Bag in Box Liners for	x	0.00	0.29	
Laminated/Other Plastic Film and Bags	x	6.52	5.94	
Other Hard Plastic Packaging	x	5.85	1.61	
Durable Plastic Products	x	9.18	3.29	
<b>Total Plastics</b>		<b>41.60</b>	<b>36.93</b>	<b>7.40</b>
<b>4. METALS</b>				
Aluminum Alcoholic Beverage Cans Over 1 L	x	0.00	0.00	
Aluminum Alcoholic Beverage Cans 1 L and Under	x	0.03	0.89	96.74%
Aluminum Food & Other Beverage Cans	x	0.90	1.44	61.54%
Aluminum Food & Tool Tins	x	1.65	0.12	6.78%
Other Aluminum Containers	x	0.07	0.08	53.53%
Steel Alcoholic Beverage Cans Over 1 L	x	0.00	0.00	
Steel Alcoholic Beverage Cans 1 L and Under	x	0.00	0.00	
Steel Food & Other Beverage Cans	x	4.03	11.82	74.99%
Steel Aerosol Cans	x	0.85	0.16	16.28%
Steel Paint Cans	x	0.18	3.17	94.63%
Other Metal	x	10.38	0.00	
<b>Total Metals</b>		<b>18.26</b>	<b>17.68</b>	<b>4.01</b>
<b>5. GLASS</b>				
Clear Glass Beer Over 630 ml	x	0.00	0.00	
Clear Glass Beer 630 ml and Under	x	0.39	0.00	0.00%
Clear Glass Other Alcohol Over 630 ml	x	0.00	0.00	
Clear Glass Other Alcohol Over 100 ml and Less	x	0.40	0.50	55.56%
Clear Glass Other Alcohol 100 ml and Under	x	0.00	0.00	
Coloured Glass Beer Over 630 ml	x	0.00	0.00	
Coloured Glass Beer 630 ml and Under	x	0.00	0.54	38.10%
Coloured Glass Other Alcohol Over 630 ml	x	0.00	0.00	
Coloured Glass Other Alcohol Over 100 ml and	x	0.00	0.00	
Coloured Glass Other Alcohol 100 ml and Under	x	0.00	0.00	
Clear Glass Other Beverage and Food	x	5.07	11.67	69.75%
Coloured Glass Other Beverage and Food	x	0.21	2.24	91.78%
Other Glass	x	2.72	0.13	
<b>Total Glass</b>		<b>9.66</b>	<b>15.20</b>	<b>2.53</b>
<b>6. HOUSEHOLD SPECIAL WASTE</b>				
Batteries		0.96	0.05	
Paint & Stain		0.00	0.13	
Motor Oil		0.00	0.00	
Other HSW liquids		0.24	0.00	
Other HSW		1.96	0.00	
<b>Total HSW</b>		<b>3.16</b>	<b>0.18</b>	<b>0.00</b>
<b>7. ORGANICS</b>				
Food Waste		181.62	0.13	
Yard Waste		0.15	0.00	
Pet waste		54.55	0.00	
<b>Total Organics</b>		<b>236.32</b>	<b>0.13</b>	<b>0.00</b>
<b>8. OTHER MATERIALS</b>				
Diapers and Sanitary Products		59.83	0.00	
Textiles		50.13	0.77	
Lapelling		1.39	0.00	
Construction & Renovation		3.45	0.00	
Computer / IT Equipment		0.00	0.00	
Television Equipment		0.00	0.00	
TV & Audio Equipment		0.00	0.00	
Small Kitchens Appliances		0.83	0.00	
Other Electronics		1.33	0.00	
Tires and Other Rubber		0.00	0.00	
Mattresses		0.55	0.00	
Upphusture		0.00	0.00	
Mattresses		0.00	0.00	
Other Large Bulky Items		0.00	0.00	
Other Waste		13.27	1.35	
<b>Total Other Materials</b>		<b>130.77</b>	<b>2.32</b>	<b>0.00</b>
<b>Grand Total</b>		<b>447.46</b>	<b>183.79</b>	<b>22.63</b>
<b>Contamination</b>			<b>15.54</b>	
<b>Blue Box Total without Contamination</b>		<b>368.25</b>	<b>36.65%</b>	

Municipality	Sample Area	Waste Stream	Date Collected (month/day/year)	Waste Generation Period (number of days)	Audit Supervisor	Notes	Make	Make	Make	Make	Captions Rate
							Township	Township	Township	Township	
							Mill & Churn	Mill & Churn	Mill & Churn	Mill & Churn	
							Garbage	Recycling	Garbage	Recycling	
							7/17/2007	7/17/2007	2 Week Total	2 Week Total	
							75	14			
							Martin LeFebvre	Martin LeFebvre			
Material Category	Accepted? ("X" if accepted in recycling or organics program)	Weight (kg)	Weight (kg)								
<b>1. PAPER</b>											
Newspaper - Dailies and Weeklies	x	1.33	0.55	1.33	0.55						29.33%
Newspaper - Other	x	2.12	1.42	2.12	1.42						40.17%
Telephone Books / Directories	x	0.00	1.02	0.00	1.02						100.00%
Magazines & Catalogues	x	0.97	0.79	0.97	0.79						84.86%
Mixed Fine Paper	x	2.65	1.46	2.65	1.46						55.52%
Books	x	0.00	0.00	0.00	0.00						
Other Paper	x	0.32	0.04	0.32	0.04						
<b>Total Paper</b>		<b>7.38</b>	<b>5.28</b>	<b>7.38</b>	<b>5.28</b>						<b>2.50</b>
<b>2. PAPER PACKAGING</b>											
Corrugated Wine Bag in Box	x	0.00	0.00	0.00	0.00						
Other Corrugated	x	0.27	2.19	0.27	2.19						89.18%
Roll Paper	x	0.22	0.00	0.22	0.00						0.00%
Board/ Card	x	2.79	3.15	2.79	3.15						55.04%
Molded Pulp	x	0.10	0.00	0.10	0.00						0.00%
Paper Caps and Paper Ice-Cream Containers	x	0.35	0.00	0.35	0.00						
Laminated Paper Packaging	x	0.99	0.17	0.99	0.17						
Composite Lids	x	0.29	0.05	0.29	0.05						11.89%
Table Top Cartons	x	0.09	0.29	0.09	0.29						77.83%
Aseptic Alcohol Over 630 ml	x	0.00	0.00	0.00	0.00						
Aseptic Alcohol 630 ml and Under	x	0.00	0.00	0.00	0.00						
Aseptic Other Containers	x	0.40	0.17	0.40	0.17						30.09%
Unseal Trenching	x	4.28	0.00	4.28	0.00						
<b>Total Paper Packaging</b>		<b>9.84</b>	<b>6.80</b>	<b>9.84</b>	<b>6.80</b>						<b>2.62</b>
<b>3. PLASTICS</b>											
PET Beer Bottles Over 630 ml	x	0.00	0.00	0.00	0.00						
PET Beer Bottles 630 ml and Under	x	0.00	0.00	0.00	0.00						
PET Other Alcohol Bottles Over 630 ml	x	0.00	0.00	0.00	0.00						
PET Other Alcohol Bottles 100 ml and Less	x	0.00	0.00	0.00	0.00						
PET Other Alcohol Bottles 100 ml and Under	x	0.00	0.00	0.00	0.00						
PET Other Beverage Bottles	x	0.51	1.60	0.51	1.60						83.99%
PET Other Bottles & Jars	x	0.25	0.45	0.25	0.45						64.03%
PET Other Packaging	x	0.05	0.24	0.05	0.24						90.57%
HDPE Beverage Bottles	x	0.00	0.70	0.00	0.70						100.00%
HDPE Other Bottles & Jugs	x	0.75	1.76	0.75	1.76						70.68%
PVC Bottles & Jars	x	0.02	0.17	0.02	0.17						89.47%
Other Plastic Alcohol Containers 100 ml and Under	x	0.00	0.00	0.00	0.00						
Other Bottles, Jars & Jugs	x	0.10	0.00	0.10	0.00						0.00%
Polystyrene Packaging	x	0.68	0.09	0.68	0.09						11.76%
Wide Mouth Tubs & Lids	x	0.55	0.72	0.55	0.72						68.42%
Large HDPE & PP Tubs & Lids	x	0.00	0.00	0.00	0.00						
Polyethylene Plastic Bags & Film - Packaging	x	3.77	0.41	3.77	0.41						9.81%
Polyethylene Plastic Bags & Film - Non-Packaging	x	1.08	0.00	1.08	0.00						0.19%
Laminated Pouches & Bag in Box Liners for	x	0.00	0.29	0.00	0.29						
Laminated/Other Plastic Film and Bags	x	2.14	0.00	2.14	0.00						
Other Rigid Plastic Packaging	x	1.94	0.29	1.94	0.29						
Flexible Plastic Products	x	1.84	0.64	1.84	0.64						
<b>Total Plastics</b>		<b>13.19</b>	<b>7.35</b>	<b>13.19</b>	<b>7.35</b>						<b>5.89</b>
<b>4. METALS</b>											
Aluminum Alcoholic Beverage Cans Over 1 L	x	0.00	0.00	0.00	0.00						
Aluminum Alcoholic Beverage Cans 1 L and Under	x	0.02	0.89	0.02	0.89						98.34%
Aluminum Food & Other Beverage Cans	x	0.22	0.78	0.22	0.78						78.39%
Aluminum Flat & Foil Trays	x	0.40	0.02	0.40	0.02						4.82%
Other Aluminum Containers	x	0.00	0.00	0.00	0.00						
Steel Alcoholic Beverage Cans Over 1 L	x	0.00	0.00	0.00	0.00						
Steel Alcoholic Beverage Cans 1 L and Under	x	0.00	0.00	0.00	0.00						
Steel Food & Other Beverage Cans	x	1.81	2.48	1.81	2.48						57.83%
Steel Aerosol Cans	x	0.52	0.00	0.52	0.00						0.00%
Steel Paint Cans	x	0.00	0.00	0.00	0.00						
Other Metal	x	1.13	0.00	1.13	0.00						
<b>Total Metals</b>		<b>4.07</b>	<b>4.17</b>	<b>4.07</b>	<b>4.17</b>						<b>2.39</b>
<b>5. GLASS</b>											
Clear Glass Beer Over 630 ml	x	0.00	0.00	0.00	0.00						
Clear Glass Beer 630 ml and Under	x	0.00	0.00	0.00	0.00						
Clear Glass Other Alcohol Over 630 ml	x	0.00	0.00	0.00	0.00						
Clear Glass Other Alcohol 100 ml and Less	x	0.00	0.50	0.00	0.50						100.00%
Clear Glass Other Alcohol 100 ml and Under	x	0.00	0.00	0.00	0.00						
Coloured Glass Beer Over 630 ml	x	0.00	0.00	0.00	0.00						
Coloured Glass Beer 630 ml and Under	x	0.00	0.54	0.00	0.54						100.00%
Coloured Glass Other Alcohol Over 630 ml	x	0.00	0.00	0.00	0.00						
Coloured Glass Other Alcohol 100 ml and Under	x	0.00	0.00	0.00	0.00						
Coloured Glass Other Alcohol 100 ml and Under	x	0.00	0.00	0.00	0.00						
Clear Glass Other Beverage and Food	x	1.20	5.85	1.20	5.85						76.24%
Coloured Glass Other Beverage and Food	x	0.00	4.20	0.00	4.20						100.00%
Other Glass	x	1.12	0.00	1.12	0.00						
<b>Total Glass</b>		<b>2.32</b>	<b>5.09</b>	<b>2.32</b>	<b>5.09</b>						<b>3.76</b>
<b>6. HOUSEHOLD SPECIAL WASTE</b>											
Batteries		0.46	0.00	0.46	0.00						
Paint & Stain		0.00	0.13	0.00	0.13						
Motor Oil		0.00	0.00	0.00	0.00						
Other HSW liquids		0.00	0.00	0.00	0.00						
Other HSW		0.07	0.00	0.07	0.00						
<b>Total HSW</b>		<b>0.53</b>	<b>0.13</b>	<b>0.53</b>	<b>0.13</b>						<b>0.00</b>
<b>7. ORGANICS</b>											
Food Waste		58.58	0.65	58.58	0.65						
Yard Waste		0.00	0.00	0.00	0.00						
Pet waste		0.06	0.00	0.06	0.00						
<b>Total Organics</b>		<b>58.64</b>	<b>0.65</b>	<b>58.64</b>	<b>0.65</b>						<b>0.00</b>
<b>8. OTHER MATERIALS</b>											
Diapers and Sanitary Products		10.86	0.00	10.86	0.00						
Trucks		7.77	0.00	7.77	0.00						
Carpeting		0.00	0.00	0.00	0.00						
Construction & Renovations		0.07	0.00	0.07	0.00						
Computer / IT Equipment		0.00	0.00	0.00	0.00						
Telecom Equipment		0.00	0.00	0.00	0.00						
TV & Audio Equipment		0.00	0.00	0.00	0.00						
Small Kitchen Appliances		0.00	0.00	0.00	0.00						
Other Electronics		0.85	0.00	0.85	0.00						
Tires and Other Rubber		0.00	0.00	0.00	0.00						
Automats		0.00	0.00	0.00	0.00						
Furniture		0.00	0.00	0.00	0.00						
Mattresses		0.00	0.00	0.00	0.00						
Other Large Bulky Items		0.00	0.00	0.00	0.00						
Other Waste		4.56	0.00	4.56	0.00						
<b>Total Other Materials</b>		<b>24.09</b>	<b>0.00</b>	<b>24.09</b>	<b>0.00</b>						<b>0.00</b>
<b>Grand Total</b>		<b>120.62</b>	<b>28.05</b>	<b>120.62</b>	<b>28.05</b>						<b>17.16</b>
<b>Contamination</b>											<b>1.43</b>
<b>Blue Box Total without Contamination</b>											<b>17.98%</b>

Municipality	Sample Area	Waste Stream	Date Collected (month/day/year)	Waste Generation Period (number of days)	Audit Supervisor	Notes	Make	Make	Make	Make	
							Township	Township	Township	Township	Mill & Churn
							Garbage	Recycling	Garbage	Recycling	Capture Rate
							7/17/2007	7/17/2007	2 Week Total	2 Week Total	
							75	14			
							Martin LeFebvre	Martin LeFebvre			
Material Category	Accepted? ("X" if accepted in recycling or organic program)	Weight (kg)	Weight (kg)								
<b>1. PAPER</b>											
Newspaper - Dailies and Weeklies	X	1.33	0.55	1.33	0.55	29.33%					
Newspaper - Other	X	2.12	1.42	2.12	1.42	40.17%					
Telephone Books / Directories	X	0.00	1.02	0.00	1.02	100.00%					
Magazines & Catalogues	X	0.97	0.79	0.97	0.79	44.86%					
Mixed Fine Paper	X	2.65	1.46	2.65	1.46	55.52%					
Books	X	0.00	0.00	0.00	0.00						
Other Paper	X	0.32	0.04	0.32	0.04						
<b>Total Paper</b>		<b>7.38</b>	<b>5.28</b>	<b>7.38</b>	<b>5.28</b>	<b>2.50</b>					
<b>2. PAPER PACKAGING</b>											
Corrugated Wine Bag in Box	X	0.00	0.00	0.00	0.00						
Other Corrugated	X	0.27	2.19	0.27	2.19	89.18%					
Roll Paper	X	0.22	0.00	0.22	0.00	0.00%					
Reboard / Cores	X	2.79	3.15	2.79	3.15	53.04%					
Molded Pulp	X	0.10	0.00	0.10	0.00	0.00%					
Paper Caps and Paper Ice-Cream Containers	X	0.35	0.00	0.35	0.00						
Laminated Paper Packaging	X	0.99	0.17	0.99	0.17						
Composite Cases	X	0.29	0.05	0.29	0.05	11.89%					
Table Top Cartons	X	0.09	0.29	0.09	0.29	77.83%					
Aseptic Alcohol Over 630 ml	X	0.00	0.00	0.00	0.00						
Aseptic Alcohol 630 ml and Under	X	0.00	0.00	0.00	0.00						
Aseptic Other Containers	X	0.40	0.17	0.40	0.17	30.09%					
Uronic Trenching	X	4.28	0.00	4.28	0.00						
<b>Total Paper Packaging</b>		<b>9.84</b>	<b>6.80</b>	<b>9.84</b>	<b>6.80</b>	<b>2.62</b>					
<b>3. PLASTICS</b>											
PET Beer Bottles Over 630 ml	X	0.00	0.00	0.00	0.00						
PET Beer Bottles 630 ml and Under	X	0.00	0.00	0.00	0.00						
PET Other Alcohol Bottles Over 630 ml	X	0.00	0.00	0.00	0.00						
PET Other Alcohol Bottles 100 ml and Less	X	0.00	0.00	0.00	0.00						
PET Other Alcohol Bottles 100 ml and Under	X	0.00	0.00	0.00	0.00						
PET Other Beverage Bottles	X	0.51	1.60	0.51	1.60	83.99%					
PET Other Bottles & Jars	X	0.25	0.45	0.25	0.45	64.03%					
PET Other Packaging	X	0.05	0.24	0.05	0.24	90.57%					
HDPE Beverage Bottles	X	0.00	0.70	0.00	0.70	100.00%					
HDPE Other Bottles & Jugs	X	0.75	1.76	0.75	1.76	30.68%					
PVC Bottles & Jars	X	0.02	0.17	0.02	0.17	89.47%					
Other Plastic Alcohol Containers 100 ml and Under	X	0.00	0.00	0.00	0.00						
Other Bottles, Jars & Jugs	X	0.10	0.00	0.10	0.00	0.00%					
Polystyrene Packaging	X	0.68	0.09	0.68	0.09	11.76%					
Wide Mouth Tubs & Lids	X	0.55	0.72	0.55	0.72	68.42%					
Large HDPE & PP Tubs & Lids	X	0.00	0.00	0.00	0.00						
Polyethylene Plastic Bags & Film - Packaging	X	3.77	0.41	3.77	0.41	9.81%					
Polyethylene Plastic Bags & Film - Non-Packaging	X	1.08	0.00	1.08	0.00	0.00%					
Laminated Pouches & Bag in Box Liners for	X	0.00	0.29	0.00	0.29						
Laminated/Other Plastic Film and Bags	X	2.14	0.00	2.14	0.00						
Other Rigid Plastic Packaging	X	1.94	0.29	1.94	0.29						
Flexible Plastic Products	X	1.84	0.64	1.84	0.64						
<b>Total Plastics</b>		<b>13.19</b>	<b>7.35</b>	<b>13.19</b>	<b>7.35</b>	<b>5.89</b>					
<b>4. METALS</b>											
Aluminum Alcoholic Beverage Cans Over 1 L	X	0.00	0.00	0.00	0.00						
Aluminum Alcoholic Beverage Cans 1 L and Under	X	0.02	0.89	0.02	0.89	98.34%					
Aluminum Food & Other Beverage Cans	X	0.22	0.78	0.22	0.78	78.39%					
Aluminum Flat & Flat Trim	X	0.40	0.02	0.40	0.02	4.82%					
Other Aluminum Containers	X	0.00	0.00	0.00	0.00						
Steel Alcoholic Beverage Cans Over 1 L	X	0.00	0.00	0.00	0.00						
Steel Alcoholic Beverage Cans 1 L and Under	X	0.00	0.00	0.00	0.00						
Steel Food & Other Beverage Cans	X	1.81	2.48	1.81	2.48	57.83%					
Steel Aerosol Cans	X	0.52	0.00	0.52	0.00	0.00%					
Steel Paint Cans	X	0.00	0.00	0.00	0.00						
Other Metal	X	1.13	0.00	1.13	0.00						
<b>Total Metals</b>		<b>4.07</b>	<b>4.17</b>	<b>4.07</b>	<b>4.17</b>	<b>2.39</b>					
<b>5. GLASS</b>											
Clear Glass Beer Over 630 ml	X	0.00	0.00	0.00	0.00						
Clear Glass Beer 630 ml and Under	X	0.00	0.00	0.00	0.00						
Clear Glass Other Alcohol Over 630 ml	X	0.00	0.00	0.00	0.00						
Clear Glass Other Alcohol 100 ml and Less	X	0.00	0.50	0.00	0.50	100.00%					
Clear Glass Other Alcohol 100 ml and Under	X	0.00	0.00	0.00	0.00						
Coloured Glass Beer Over 630 ml	X	0.00	0.00	0.00	0.00						
Coloured Glass Beer 630 ml and Under	X	0.00	0.54	0.00	0.54	100.00%					
Coloured Glass Other Alcohol Over 630 ml	X	0.00	0.00	0.00	0.00						
Coloured Glass Other Alcohol 100 ml and Under	X	0.00	0.00	0.00	0.00						
Coloured Glass Other Alcohol 100 ml and Under	X	0.00	0.00	0.00	0.00						
Clear Glass Other Beverage and Food	X	1.20	5.85	1.20	5.85	76.24%					
Coloured Glass Other Beverage and Food	X	0.00	4.20	0.00	4.20	100.00%					
Other Glass	X	1.12	0.00	1.12	0.00						
<b>Total Glass</b>		<b>2.32</b>	<b>5.09</b>	<b>2.32</b>	<b>5.09</b>	<b>3.56</b>					
<b>6. HOUSEHOLD SPECIAL WASTE</b>											
Batteries		0.46	0.00	0.46	0.00						
Paint & Stain		0.00	0.13	0.00	0.13						
Motor Oil		0.00	0.00	0.00	0.00						
Other HSW liquids		0.00	0.00	0.00	0.00						
Other HSW		0.07	0.00	0.07	0.00						
<b>Total HSW</b>		<b>0.53</b>	<b>0.13</b>	<b>0.53</b>	<b>0.13</b>	<b>0.00</b>					
<b>7. ORGANICS</b>											
Food Waste		58.58	0.05	58.58	0.05						
Yard Waste		0.00	0.00	0.00	0.00						
Pet waste		0.06	0.00	0.06	0.00						
<b>Total Organics</b>		<b>58.64</b>	<b>0.05</b>	<b>58.64</b>	<b>0.05</b>	<b>0.00</b>					
<b>8. OTHER MATERIALS</b>											
Diapers and Sanitary Products		10.86	0.00	10.86	0.00						
Trucks		7.77	0.00	7.77	0.00						
Carpeting		0.00	0.00	0.00	0.00						
Construction & Renovations		0.07	0.00	0.07	0.00						
Computer / IT Equipment		0.00	0.00	0.00	0.00						
Telecom Equipment		0.00	0.00	0.00	0.00						
TV & Audio Equipment		0.00	0.00	0.00	0.00						
Small Kitchen Appliances		0.00	0.00	0.00	0.00						
Other Electronics		0.85	0.00	0.85	0.00						
Tires and Other Rubber		0.00	0.00	0.00	0.00						
Automats		0.00	0.00	0.00	0.00						
Furniture		0.00	0.00	0.00	0.00						
Mattresses		0.00	0.00	0.00	0.00						
Other Large Bulky Items		0.00	0.00	0.00	0.00						
Other Waste		4.56	0.00	4.56	0.00						
<b>Total Other Materials</b>		<b>24.09</b>	<b>0.00</b>	<b>24.09</b>	<b>0.00</b>	<b>0.00</b>					
<b>Grand Total</b>		<b>120.62</b>	<b>28.05</b>	<b>120.62</b>	<b>28.05</b>	<b>17.16</b>					
<b>Contamination</b>						<b>1.43</b>					
<b>Blue Box Total without Contamination</b>						<b>26.62</b>				<b>17.98%</b>	

Municipality:	Town of Madoc	Town of Madoc	Town of Madoc	Town of Madoc	Town of Madoc	Town of Madoc	
Sample Area:	Elgon	Elgon	Elgon	Elgon	Elgon	Elgon	
Waste Stream:	Garbage	Recycling	Garbage	Recycling	Garbage	Recycling	Capture Rate
Date Collected (month/day/year):	9/11/2007	9/11/2007	9/18/2007	9/18/2007	2 Week Total	2 Week Total	
Waste Generation Period (number of days):							
Audit Supervisor:	Martin LeFebvre	Martin LeFebvre	Martin LeFebvre	Martin LeFebvre			
Notes:				Recycling collected by regular haulers			
Material Category	Accepted? ("X" if accepted in recycling or organics program)	Weight (kg)	Weight (kg)	Weight (kg)	Weight (kg)		
<b>1. PAPER</b>							
Newspaper - Dailies and Weeklys	x	0.17	4.35	0.28	C11	0.45	8.69
Newspaper - Other	x	0.03	8.22	0.00	C11	0.03	16.43
Telephone Books / Directories	x	0.00	1.58	0.00	C11	0.00	2.75
Magnets & Cardigans	x	0.03	0.66	0.00	C11	0.03	1.32
Mixed Face Paper	x	0.76	2.13	1.37	C11	2.13	4.26
Books	x	0.00	0.87	0.00	C11	0.00	1.74
Other Paper	x	0.45	0.65	0.03	C11	0.48	1.50
<b>Total Paper</b>		<b>1.44</b>	<b>18.22</b>	<b>1.68</b>	<b>0.00</b>	<b>3.11</b>	<b>36.49</b>
<b>2. PAPER PACKAGING</b>							
Corrugated Wire Bag in Box	x	0.00	0.00	0.00	C11	0.00	0.00
Other Corrugated	x	0.02	1.70	0.07	C11	0.09	3.40
Knit Paper	x	0.29	0.12	0.08	C11	0.37	0.24
Board / Boxes	x	1.26	3.76	1.79	C11	3.05	7.51
Mixed Pulp	x	0.13	0.08	0.11	C11	0.26	0.15
Paper Cups and Paper Ice-Cream Containers	x	0.27	0.09	0.38	C11	0.65	0.17
Laminated Paper Packaging	x	0.33	0.27	0.50	C11	0.83	0.53
Composite Cans	x	0.24	0.00	0.26	C11	0.49	0.00
Gable Top Cartons	x	0.04	0.60	0.04	C11	0.07	1.19
Aseptic Alcohol Over 630 ml	x	0.00	0.00	0.00	C11	0.00	0.00
Aseptic Alcohol 630 ml and Under	x	0.00	0.00	0.00	C11	0.00	0.00
Aseptic Other Containers	x	0.12	0.20	0.07	C11	0.19	0.40
Teas/Teabags	x	1.08	0.00	1.82	C11	2.90	0.29
<b>Total Paper Packaging</b>		<b>3.79</b>	<b>6.94</b>	<b>5.08</b>	<b>0.00</b>	<b>8.86</b>	<b>13.87</b>
<b>3. PLASTICS</b>							
PET Beer Bottles Over 630 ml	x	0.00	0.00	0.00	C11	0.00	0.00
PET Beer Bottles 630 ml and Under	x	0.00	0.00	0.00	C11	0.00	0.00
PET Other Alcohol Bottles Over 630 ml	x	0.00	0.00	0.00	C11	0.00	0.00
PET Other Alcohol Bottles Over 100 ml and Less	x	0.05	0.05	0.00	C11	0.05	0.09
PET Other Alcohol Bottles 100 ml and Under	x	0.00	0.00	0.00	C11	0.00	0.00
PET Other Beverage Bottles	x	0.26	0.86	0.07	C11	0.32	1.71
PET Other Bottles & Jars	x	0.00	0.22	0.14	C11	0.14	0.45
PET Other Packaging	x	0.04	0.22	0.02	C11	0.06	0.43
HDPE Beverage Bottles	x	0.00	0.09	0.00	C11	0.00	0.17
HDPE Other Bottles & Jugs	x	0.05	1.14	0.16	C11	0.20	2.27
PVC Bottles & Jars	x	0.00	0.00	0.00	C11	0.00	0.00
Other Plastic Alcohol Containers 100 ml and Under	x	0.00	0.00	0.00	C11	0.00	0.00
Other Bottles, Jars & Jugs	x	0.03	0.15	0.07	C11	0.10	0.30
Polystyrene Packaging	x	0.04	0.11	0.27	C11	0.30	0.22
Wide Mouth Tubs & Lids	x	0.18	0.20	0.56	C11	0.53	0.40
Large HDPE & PP Tubs & Lids	x	0.00	0.00	0.00	C11	0.00	0.00
Polyethylene Plastic Bags & Film - Packaging	x	0.09	0.42	1.50	C11	2.28	0.83
Polyethylene Plastic Bags & Film - Non-Packaging	x	0.37	0.09	0.50	C11	0.06	0.17
Laminated Pouches & Bag in Box Liners for	x	0.00	0.00	0.00	C11	0.00	0.00
Laminated/Other Plastic Film and Bags	x	0.52	0.52	1.16	C11	1.68	0.64
Other Hard Plastic Packaging	x	0.47	0.29	0.62	C11	1.08	0.56
Disposable Plastic Products	x	0.22	2.13	0.37	C11	0.78	4.25
<b>Total Plastics</b>		<b>3.19</b>	<b>8.28</b>	<b>5.27</b>	<b>0.00</b>	<b>8.46</b>	<b>12.56</b>
<b>4. METALS</b>							
Aluminum Alcoholic Beverage Cans Over 1 L	x	0.00	0.00	0.00	C11	0.00	0.00
Aluminum Alcoholic Beverage Cans 1 L and Under	x	0.00	0.00	0.00	C11	0.00	0.00
Aluminum Food & Other Beverage Cans	x	0.05	0.13	0.01	C11	0.06	0.23
Aluminum Food & Fuel Tins	x	0.23	0.01	0.13	C11	0.33	0.06
Other Aluminum Containers	x	0.01	0.00	0.01	C11	0.02	0.00
Steel Alcoholic Beverage Cans Over 1 L	x	0.00	0.00	0.00	C11	0.00	0.00
Steel Alcoholic Beverage Cans 1 L and Under	x	0.00	0.00	0.00	C11	0.00	0.00
Steel Food & Other Beverage Cans	x	0.54	0.07	0.59	C11	0.91	1.75
Steel Aerosol Cans	x	0.13	0.00	0.07	C11	0.20	0.16
Steel Paint Cans	x	0.18	0.00	0.00	C11	0.18	0.00
Other Metal	x	0.12	0.00	0.33	C11	0.65	0.00
<b>Total Metals</b>		<b>1.03</b>	<b>1.20</b>	<b>1.33</b>	<b>0.00</b>	<b>2.36</b>	<b>2.40</b>
<b>5. GLASS</b>							
Clear Glass Beer Over 630 ml	x	0.00	0.00	0.00	C11	0.00	0.00
Clear Glass Beer 630 ml and Under	x	0.30	0.00	0.00	C11	0.30	0.00
Clear Glass Other Alcohol Over 630 ml	x	0.00	0.00	0.00	C11	0.00	0.00
Clear Glass Other Alcohol Over 100 ml and Less	x	0.00	0.00	0.00	C11	0.00	0.00
Clear Glass Other Alcohol 100 ml and Under	x	0.00	0.00	0.00	C11	0.00	0.00
Coloured Glass Beer Over 630 ml	x	0.00	0.00	0.00	C11	0.00	0.00
Coloured Glass Beer 630 ml and Under	x	0.55	0.00	0.00	C11	0.55	0.00
Coloured Glass Other Alcohol Over 630 ml	x	0.00	0.00	0.00	C11	0.00	0.00
Coloured Glass Other Alcohol Over 100 ml and	x	0.00	0.00	0.00	C11	0.00	0.00
Coloured Glass Other Alcohol 100 ml and Under	x	0.00	0.00	0.00	C11	0.00	0.00
Clear Glass Other Beverage and Food	x	0.18	1.55	0.79	C11	0.97	3.89
Coloured Glass Other Beverage and Food	x	0.00	0.00	0.00	C11	0.00	0.00
Other Glass	x	0.56	0.00	0.12	C11	0.68	0.00
<b>Total Glass</b>		<b>1.65</b>	<b>1.55</b>	<b>0.91</b>	<b>0.00</b>	<b>2.56</b>	<b>3.89</b>
<b>6. HOUSEHOLD SPECIAL WASTE</b>							
Batteries	x	0.08	0.00	0.50	C11	0.38	0.00
Paint & Stain	x	0.00	0.00	0.00	C11	0.00	0.00
Motor Oil	x	0.00	0.00	0.00	C11	0.00	0.00
Other HSW Liquids	x	0.00	0.00	0.00	C11	0.00	0.00
Other HSW	x	0.00	0.00	0.07	C11	0.07	0.00
<b>Total HSW</b>		<b>0.08</b>	<b>0.00</b>	<b>0.97</b>	<b>0.00</b>	<b>1.05</b>	<b>0.00</b>
<b>7. ORGANICS</b>							
Food Waste	x	40.72	0.08	28.05	C11	78.76	0.08
Yard Waste	x	0.00	0.00	0.15	C11	0.15	0.00
Pet waste	x	8.26	0.00	12.46	C11	20.72	0.00
<b>Total Organics</b>		<b>48.98</b>	<b>0.08</b>	<b>47.63</b>	<b>0.00</b>	<b>96.61</b>	<b>0.08</b>
<b>8. OTHER MATERIALS</b>							
Diapers and Sanitary Products	x	7.83	0.00	0.91	C11	16.76	0.00
Toilets	x	16.65	0.50	2.56	C11	19.60	0.77
Carpentry	x	0.00	0.00	0.00	C11	0.00	0.00
Construction & Renovation	x	0.18	0.00	0.22	C11	0.40	0.00
Computer / IT Equipment	x	0.00	0.00	0.00	C11	0.00	0.00
Television Equipment	x	0.00	0.00	0.00	C11	0.00	0.00
TV & Audio Equipment	x	0.00	0.00	0.00	C11	0.00	0.00
Small Kitchen Appliances	x	0.00	0.00	0.83	C11	0.83	0.00
Other Electronics	x	0.03	0.00	0.00	C11	0.03	0.00
Tires and Other Rubber	x	0.00	0.00	0.00	C11	0.00	0.00
Appliances	x	0.00	0.00	0.15	C11	0.15	0.00
Furniture	x	0.00	0.00	0.00	C11	0.00	0.00
Mattresses	x	0.00	0.00	0.00	C11	0.00	0.00
Other Large Bulky Items	x	0.00	0.00	0.00	C11	0.00	0.00
Other Waste	x	1.03	0.78	1.07	C11	2.10	1.53
<b>Total Other Materials</b>		<b>29.74</b>	<b>1.28</b>	<b>13.58</b>	<b>0.00</b>	<b>39.34</b>	<b>2.32</b>
<b>Grand Total</b>		<b>85.88</b>	<b>35.81</b>	<b>76.36</b>	<b>0.00</b>	<b>162.23</b>	<b>71.61</b>
<b>Contamination</b>							<b>9.35</b>
<b>Blue Box Total without Contamination</b>							<b>62.26</b>

Municipality: Sample Area: Waste Stream: Date Collected (month/day/year): Waste Generation Period (number of days): Audit Supervisor: Notes:	All Areas Combined		
	Garbage	Recycling	Capture Rate
	2 Week Total	2 Week Total	
Material Category			
<b>1. PAPER</b>			
Newspaper - Dailies and Weeklys	0.00	12.75	100.00%
Newspaper - Other	0.24	25.54	98.99%
Telephone Books / Directories	0.00	0.25	100.00%
Magazines & Catalogues	1.22	5.82	92.72%
Mixed Fine Paper	5.22	7.44	38.79%
Books	0.12	0.00	0.00%
Other Paper	0.14	0.08	
<b>Total Paper</b>	<b>6.97</b>	<b>49.86</b>	<b>4.40</b>
<b>2. PAPER PACKAGING</b>			
Corrugated Wine Bag or Box	0.00	0.00	
Other Corrugated	0.13	13.23	99.03%
Retail Paper	0.32	0.27	45.69%
Board / Cases	3.09	11.40	78.70%
Waxed Paper	0.10	0.24	77.27%
Paper Cups and Paper Ice-Cream Containers	0.43	0.32	
Laminated Paper Packaging	1.20	1.19	
Composite Cans	0.27	0.96	77.96%
Guill-Top Cartons	0.07	1.25	94.58%
Aseptic Alcohol Over 630 ml	0.00	0.00	
Aseptic Alcohol 630 ml and Under	0.00	0.00	
Aseptic Other Containers	0.75	0.90	54.41%
Tissue/Toweling	8.40	0.09	
<b>Total Paper Packaging</b>	<b>14.74</b>	<b>29.91</b>	<b>3.28</b>
<b>3. PLASTICS</b>			
PET Beer Bottles Over 630 ml	0.00	0.00	
PET Beer Bottles 630 ml and Under	0.00	0.00	
PET Other Alcohol Bottles Over 630 ml	0.00	0.06	100.00%
PET Other Alcohol Bottles 100 ml and Less Than or Equal to 630 ml	0.00	0.10	100.00%
PET Other Alcohol Bottles 100 ml and Under	0.00	0.00	
PET Other Beverage Bottles	0.45	0.67	93.74%
PET Other Bottles & Jars	0.10	3.77	97.42%
PET Other Packaging	0.19	1.02	84.50%
HDPE Beverage Bottles	0.00	0.39	100.00%
HDPE Other Bottles & Jugs	0.07	3.28	84.54%
PVC Bottles & Jars	0.12	0.06	31.43%
Other Plastic Alcohol Containers 100 ml and Under	0.00	0.00	
Other Bottles, Jars & Jugs	0.30	0.41	57.86%
Polystyrene Packaging	0.84	3.67	81.37%
Wax Mount Tubs & Lids	0.32	2.12	87.14%
Large HDPE & PP Pails & Lids	0.00	0.17	100.00%
Polyethylene Plastic Bags & Film - Packaging	3.37	6.41	64.23%
Polyethylene Plastic Bags & Film - Non-Packaging	3.66	0.82	18.30%
Laminated Pouches & Bag in Box Liners for Alcohol	0.00	0.00	
Laminated Other Plastic Film and Bags	3.30	1.64	
Other Rigid Plastic Packaging	2.04	2.00	
Disposable Products	3.08	1.60	
<b>Total Plastics</b>	<b>18.92</b>	<b>34.36</b>	<b>11.00</b>
<b>4. METALS</b>			
Aluminum Alcohol Beverage Cans Over 1 L	0.00	0.00	
Aluminum Alcohol Beverage Cans 1 L and Under	0.00	0.78	100.00%
Aluminum Food & Other Beverage Cans	0.04	2.31	98.51%
Aluminum Food & Food Trays	0.72	0.39	35.00%
Other Aluminum Containers	0.00	0.07	100.00%
Steel Alcohol Beverage Cans Over 1 L	0.00	0.00	
Steel Alcohol Beverage Cans 1 L and Under	0.00	0.00	
Steel Food & Other Beverage Cans	0.82	13.20	94.18%
Steel Aerosol Cans	0.22	1.19	84.70%
Steel Plant Cans	0.00	0.00	
Other Metal	0.84	0.26	
<b>Total Metals</b>	<b>2.82</b>	<b>18.18</b>	<b>3.12</b>
<b>5. GLASS</b>			
Clear Glass Beer Over 630 ml	0.00	0.00	
Clear Glass Beer 630 ml and Under	0.00	0.00	
Clear Glass Other Alcohol Over 630 ml	0.00	0.00	
Clear Glass Other Alcohol 100 ml and Less Than or Equal to 630 ml	0.00	0.63	100.00%
Clear Glass Other Alcohol 100 ml and Under	0.00	0.17	100.00%
Euro-style Glass Beer Over 630 ml	0.00	0.00	
Euro-style Glass Beer 630 ml and Under	0.00	0.00	
Euro-style Glass Other Alcohol Over 630 ml	0.00	0.00	
Euro-style Glass Other Alcohol 100 ml and Less Than or Equal to 630 ml	0.00	0.00	
Euro-style Glass Other Alcohol 100 ml and Under	0.00	0.00	
Clear Glass Other Beverage and Food	3.19	17.57	84.63%
Euro-style Glass Other Beverage and Food	0.00	0.31	100.00%
Other Glass	2.18	0.73	
<b>Total Glass</b>	<b>5.37</b>	<b>19.39</b>	<b>3.85</b>
<b>6. HOUSEHOLD SPECIAL WASTE</b>			
Batteries	0.08	0.05	
Paint & Stain	0.00	0.00	
Motor Oil	0.00	0.00	
Other HSW liquids	0.00	0.00	
Other HSW	0.12	0.00	
<b>Total HSW</b>	<b>1.10</b>	<b>0.03</b>	<b>0.00</b>
<b>7. ORGANICS</b>			
Food Waste	105.60	0.85	
Yard Waste	6.06	0.00	
Pet waste	29.30	0.00	
<b>Total Organics</b>	<b>138.95</b>	<b>0.85</b>	<b>0.40</b>
<b>8. OTHER MATERIALS</b>			
Diapers and Sanitary Products	40.74	0.02	
Textiles	10.86	0.81	
Barbwire	0.00	0.00	
Construction & Renovation	1.47	1.92	
Computer / IT Equipment	0.00	0.00	
Telecom Equipment	0.00	0.00	
TV & Audio Equipment	0.10	0.00	
Small Kitchen Appliances	0.00	0.00	
Other Electronics	0.19	0.00	
Tires and Other Rubber	0.00	0.00	
Stumps	0.67	0.00	
Furniture	0.00	2.52	
Mattresses	0.00	0.00	
Other Large Bulky Items	0.00	0.00	
Other Waste	7.52	0.08	
<b>Total Other Materials</b>	<b>63.31</b>	<b>3.38</b>	<b>0.00</b>
<b>Grand Total</b>	<b>249.98</b>	<b>159.71</b>	<b>29.66</b>
<b>Contamination</b>		<b>12.60</b>	
<b>Blue Box Total without Contamination</b>		<b>147.11</b>	<b>35.91%</b>

*Appendix D*  
Detailed Capture Rates

	C. Hastings		
	2007	2008	+/- capture rate
<b>Material Category Accepted in Blue Box Program Only</b>			
Newspaper – Dailys and Weeklys	95.28%	24.34%	<b>-70.94%</b>
Newspaper - Other	96.97%	7.90%	<b>-89.07%</b>
Telephone Books / Directories			
Magazines & Catalogues	91.16%	30.80%	<b>-60.36%</b>
Mixed Fine Paper	62.90%	41.07%	<b>-21.83%</b>
Books	100.00%	84.75%	<b>-15.25%</b>
<i>Corrugated Wine Bag in Box</i>			
Other Corrugated	98.03%	6.74%	<b>-91.29%</b>
Kraft Paper	29.89%	64.47%	<b>34.58%</b>
Boxboard / Cores	63.50%	37.28%	<b>-26.22%</b>
Molded Pulp	30.89%	79.44%	<b>48.54%</b>
Composite Cans	0.00%	19.03%	<b>19.03%</b>
Gable Top Cartons	60.67%	38.47%	<b>-22.20%</b>
<i>Aseptic Alcohol Over 630 ml</i>			
<i>Aseptic Alcohol 630 ml and Under</i>			
Aseptic Other Containers	0.00%	13.79%	<b>13.79%</b>
<i>PET Beer Bottles Over 630 ml</i>			
<i>PET Beer Bottles 630 ml and Under</i>			
PET Other Alcohol Bottles Over 630 ml			
PET Other Alcohol Bottles Over 100 ml and Less Than or Equal to 630 ml			
<i>PET Other Alcohol Bottles 100 ml and Under</i>			
PET Other Beverage Bottles	86.46%	24.87%	<b>-61.59%</b>
PET Other Bottles & Jars	65.64%	37.68%	<b>-27.97%</b>
PET Other Packaging	85.00%	36.60%	<b>-48.40%</b>
HDPE Beverage Bottles	0.00%	3.85%	<b>3.85%</b>
HDPE Other Bottles & Jugs	67.66%	34.58%	<b>-33.08%</b>
PVC Bottles & Jars	100.00%	45.87%	<b>-54.13%</b>
<i>Other Plastic Alcohol Containers 100 ml and Under</i>			
Other Bottles, Jars & Jugs	0.00%	20.32%	<b>20.32%</b>
Polystyrene Packaging	29.29%	60.85%	<b>31.56%</b>
Wide Mouth Tubs & Lids	70.75%	38.13%	<b>-32.61%</b>
Large HDPE & PP Pails & Lids	0.00%	100.00%	<b>100.00%</b>
Polyethylene Plastic Bags & Film - Packaging	51.29%	64.13%	<b>12.84%</b>
Polyethylene Plastic Bags & Film - Non-Packaging	11.00%	15.41%	<b>4.40%</b>
<i>Aluminum Alcoholic Beverage Cans Over 1 L</i>			
Aluminum Alcoholic Beverage Cans 1 L and Under	0.00%	1.48%	<b>1.48%</b>
Aluminum Food & Other Beverage Cans	39.61%	42.00%	<b>2.39%</b>
Aluminum Foil & Foil Trays	4.23%	58.57%	<b>54.34%</b>
Other Aluminum Containers	59.26%	89.00%	<b>29.75%</b>
<i>Steel Alcoholic Beverage Cans Over 1 L</i>			
<i>Steel Alcoholic Beverage Cans 1 L and Under</i>			
Steel Food & Other Beverage Cans	84.93%	20.50%	<b>-64.43%</b>
Steel Aerosol Cans	0.00%	9.91%	<b>9.91%</b>
Steel Paint Cans	100.00%		<b>-100.00%</b>
<i>Clear Glass Beer Over 630 ml</i>			
<i>Clear Glass Beer 630 ml and Under</i>			
<i>Clear Glass Other Alcohol Over 630 ml</i>			
Clear Glass Other Alcohol Over 100 ml and Less Than or Equal to 630 ml	0.00%		
Clear Glass Other Alcohol 100 ml and Under			
<i>Coloured Glass Beer Over 630 ml</i>			
Coloured Glass Beer 630 ml and Under	0.00%		
<i>Coloured Glass Other Alcohol Over 630 ml</i>			
<i>Coloured Glass Other Alcohol Over 100 ml and Less Than or Equal to 630 ml</i>			
<i>Coloured Glass Other Alcohol 100 ml and Under</i>			
Clear Glass Other Beverage and Food	57.54%	41.35%	<b>-16.19%</b>
Coloured Glass Other Beverage and Food	91.06%	26.30%	<b>-64.76%</b>
<b>Blue Box Total without Contamination</b>	<b>31.83%</b>	<b>56.44%</b>	<b>24.61%</b>

QWS- Clear Bag Pilot Waste Audit  
Appendix D

	Madoc Township		
	2007	2008	+/- capture rate
<b>Material Category Accepted in Blue Box Program Only</b>			
Newspaper – Dailys and Weeklys	29.33%	100.00%	70.67%
Newspaper - Other	40.17%	82.73%	42.56%
Telephone Books / Directories	100.00%		-100.00%
Magazines & Catalogues	44.86%	100.00%	55.14%
Mixed Fine Paper	35.52%	37.92%	2.40%
Books			
<i>Corrugated Wine Bag in Box</i>			
Other Corrugated	89.18%	100.00%	10.82%
Kraft Paper	0.92%	31.71%	30.79%
Boxboard / Cores	53.04%	85.65%	32.62%
Molded Pulp	0.00%	0.00%	
Composite Cans	11.49%	100.00%	88.51%
Gable Top Cartons	77.03%	100.00%	22.97%
<i>Aseptic Alcohol Over 630 ml</i>			
<i>Aseptic Alcohol 630 ml and Under</i>			
Aseptic Other Containers	30.09%	100.00%	69.91%
<i>PET Beer Bottles Over 630 ml</i>			
<i>PET Beer Bottles 630 ml and Under</i>			
PET Other Alcohol Bottles Over 630 ml		100.00%	100.00%
PET Other Alcohol Bottles Over 100 ml and Less Than or Equal to 630 ml		100.00%	100.00%
<i>PET Other Alcohol Bottles 100 ml and Under</i>			0.00%
PET Other Beverage Bottles	83.99%	96.16%	12.17%
PET Other Bottles & Jars	64.03%	100.00%	35.97%
PET Other Packaging	90.57%	100.00%	9.43%
HDPE Beverage Bottles	100.00%	100.00%	0.00%
HDPE Other Bottles & Jugs	70.68%	95.39%	24.71%
PVC Bottles & Jars	89.47%	100.00%	10.53%
<i>Other Plastic Alcohol Containers 100 ml and Under</i>			
Other Bottles, Jars & Jugs	0.00%	100.00%	100.00%
Polystyrene Packaging	11.76%	60.91%	49.14%
Wide Mouth Tubs & Lids	68.42%	97.66%	29.24%
Large HDPE & PP Pails & Lids			
Polyethylene Plastic Bags & Film - Packaging	9.81%	64.74%	54.93%
Polyethylene Plastic Bags & Film - Non-Packaging	0.19%	27.88%	27.70%
<i>Aluminum Alcoholic Beverage Cans Over 1 L</i>			
Aluminum Alcoholic Beverage Cans 1 L and Under	98.34%	100.00%	1.66%
Aluminum Food & Other Beverage Cans	78.39%	100.00%	21.61%
Aluminum Foil & Foil Trays	4.82%	63.01%	58.19%
Other Aluminum Containers			0.00%
<i>Steel Alcoholic Beverage Cans Over 1 L</i>			
<i>Steel Alcoholic Beverage Cans 1 L and Under</i>			
Steel Food & Other Beverage Cans	57.83%	98.23%	40.40%
Steel Aerosol Cans	0.00%	100.00%	100.00%
Steel Paint Cans			
<i>Clear Glass Beer Over 630 ml</i>			
<i>Clear Glass Beer 630 ml and Under</i>			
<i>Clear Glass Other Alcohol Over 630 ml</i>			
Clear Glass Other Alcohol Over 100 ml and Less Than or Equal to 630 ml	100.00%	100.00%	
Clear Glass Other Alcohol 100 ml and Under			
<i>Coloured Glass Beer Over 630 ml</i>			
Coloured Glass Beer 630 ml and Under	100.00%		-100.00%
<i>Coloured Glass Other Alcohol Over 630 ml</i>			
<i>Coloured Glass Other Alcohol Over 100 ml and Less Than or Equal to 630 ml</i>			
<i>Coloured Glass Other Alcohol 100 ml and Under</i>			
Clear Glass Other Beverage and Food	76.24%	100.00%	23.76%
Coloured Glass Other Beverage and Food	100.00%	100.00%	
<b>Blue Box Total without Contamination</b>	<b>17.98%</b>	<b>30.07%</b>	<b>12.09%</b>

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	Town of Madoc		
	2007	2008	+/- capture rate
<b>Material Category Accepted in Blue Box Program Only</b>			
Newspaper – Dailys and Weeklys	95.08%	100.00%	4.92%
Newspaper - Other	99.82%	100.00%	0.18%
Telephone Books / Directories	100.00%	100.00%	
Magazines & Catalogues	98.14%	79.55%	-18.60%
Mixed Fine Paper	66.72%	34.12%	-32.60%
Books	100.00%		-100.00%
<i>Corrugated Wine Bag in Box</i>			
Other Corrugated	97.56%	98.62%	1.06%
Kraft Paper	39.67%	54.55%	14.88%
Boxboard / Cores	71.15%	75.20%	4.05%
Molded Pulp	36.59%	100.00%	63.41%
Composite Cans	14.29%	48.91%	34.63%
Gable Top Cartons	94.44%	97.79%	3.35%
<i>Aseptic Alcohol Over 630 ml</i>			
<i>Aseptic Alcohol 630 ml and Under</i>			
Aseptic Other Containers	67.80%	82.54%	14.74%
<i>PET Beer Bottles Over 630 ml</i>			
<i>PET Beer Bottles 630 ml and Under</i>			
PET Other Alcohol Bottles Over 630 ml			
PET Other Alcohol Bottles Over 100 ml and Less Than or Equal to 630 ml	64.29%		-64.29%
<i>PET Other Alcohol Bottles 100 ml and Under</i>			
PET Other Beverage Bottles	84.24%	84.84%	0.60%
PET Other Bottles & Jars	76.11%	90.87%	14.76%
PET Other Packaging	88.66%	68.33%	-20.33%
HDPE Beverage Bottles	100.00%	100.00%	
HDPE Other Bottles & Jugs	91.90%	82.30%	-9.60%
PVC Bottles & Jars	100.00%		-100.00%
<i>Other Plastic Alcohol Containers 100 ml and Under</i>			
Other Bottles, Jars & Jugs	75.95%	57.89%	-18.05%
Polystyrene Packaging	42.31%	82.33%	40.02%
Wide Mouth Tubs & Lids	43.01%	78.72%	35.71%
Large HDPE & PP Pails & Lids			0.00%
Polyethylene Plastic Bags & Film - Packaging	26.69%	64.13%	37.44%
Polyethylene Plastic Bags & Film - Non-Packaging	15.11%	15.41%	0.30%
<i>Aluminum Alcoholic Beverage Cans Over 1 L</i>			
Aluminum Alcoholic Beverage Cans 1 L and Under			
Aluminum Food & Other Beverage Cans	80.65%	91.25%	10.60%
Aluminum Foil & Foil Trays	14.63%	29.29%	14.66%
Other Aluminum Containers	0.00%		
<i>Steel Alcoholic Beverage Cans Over 1 L</i>			
<i>Steel Alcoholic Beverage Cans 1 L and Under</i>			
Steel Food & Other Beverage Cans	68.08%	80.57%	12.49%
Steel Aerosol Cans	44.44%	75.98%	31.53%
Steel Paint Cans	0.00%		
<i>Clear Glass Beer Over 630 ml</i>			
<i>Clear Glass Beer 630 ml and Under</i>	0.00%		
<i>Clear Glass Other Alcohol Over 630 ml</i>			
Clear Glass Other Alcohol Over 100 ml and Less Than or Equal to 630 ml			
Clear Glass Other Alcohol 100 ml and Under		100.00%	100.00%
<i>Coloured Glass Beer Over 630 ml</i>			
Coloured Glass Beer 630 ml and Under	0.00%		
<i>Coloured Glass Other Alcohol Over 630 ml</i>			
<i>Coloured Glass Other Alcohol Over 100 ml and Less Than or Equal to 630 ml</i>			
<i>Coloured Glass Other Alcohol 100 ml and Under</i>			
Clear Glass Other Beverage and Food	80.12%	62.90%	-17.22%
Coloured Glass Other Beverage and Food			
<b>Blue Box Total without Contamination</b>	<b>26.63%</b>	<b>31.36%</b>	<b>4.74%</b>

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	All Areas Combined		
	2007	2008	+/- capture rate
<b>Material Category Accepted in Blue Box Program Only</b>			
Newspaper – Dailys and Weeklys	85.95%	75.94%	<b>-10.01%</b>
Newspaper - Other	92.81%	51.61%	<b>-41.20%</b>
Telephone Books / Directories	100.00%	100.00%	<b>0.00%</b>
Magazines & Catalogues	75.47%	62.86%	<b>-12.61%</b>
Mixed Fine Paper	57.36%	37.70%	<b>-19.66%</b>
Books	100.00%	84.75%	<b>-15.25%</b>
<i>Corrugated Wine Bag in Box</i>			
Other Corrugated	97.04%	38.57%	<b>-58.47%</b>
Kraft Paper	29.74%	61.14%	<b>31.40%</b>
Boxboard / Cores	64.21%	58.40%	<b>-5.81%</b>
Molded Pulp	30.36%	78.50%	<b>48.14%</b>
Composite Cans	10.57%	43.74%	<b>33.17%</b>
Gable Top Cartons	77.07%	53.17%	<b>-23.90%</b>
<i>Aseptic Alcohol Over 630 ml</i>			
<i>Aseptic Alcohol 630 ml and Under</i>			
Aseptic Other Containers	43.35%	42.97%	<b>-0.37%</b>
<i>PET Beer Bottles Over 630 ml</i>			
<i>PET Beer Bottles 630 ml and Under</i>			
PET Other Alcohol Bottles Over 630 ml		5.66%	<b>5.66%</b>
PET Other Alcohol Bottles Over 100 ml and Less Than or Equal to 630 ml	64.29%	9.09%	<b>-55.19%</b>
<i>PET Other Alcohol Bottles 100 ml and Under</i>			
PET Other Beverage Bottles	85.24%	56.07%	<b>-29.17%</b>
PET Other Bottles & Jars	67.79%	67.36%	<b>-0.42%</b>
PET Other Packaging	87.10%	49.39%	<b>-37.71%</b>
HDPE Beverage Bottles	95.60%	27.27%	<b>-68.33%</b>
HDPE Other Bottles & Jugs	74.41%	58.46%	<b>-15.95%</b>
PVC Bottles & Jars	95.65%	47.20%	<b>-48.45%</b>
<i>Other Plastic Alcohol Containers 100 ml and Under</i>			
Other Bottles, Jars & Jugs	40.27%	34.46%	<b>-5.81%</b>
Polystyrene Packaging	27.58%	65.68%	<b>38.10%</b>
Wide Mouth Tubs & Lids	60.33%	59.27%	<b>-1.07%</b>
Large HDPE & PP Pails & Lids	0.00%	100.00%	<b>100.00%</b>
Polyethylene Plastic Bags & Film - Packaging	32.49%	64.23%	<b>31.74%</b>
Polyethylene Plastic Bags & Film - Non-Packaging	9.13%	18.30%	<b>9.18%</b>
<i>Aluminum Alcoholic Beverage Cans Over 1 L</i>			
Aluminum Alcoholic Beverage Cans 1 L and Under	96.74%	21.88%	<b>-74.86%</b>
Aluminum Food & Other Beverage Cans	61.54%	64.15%	<b>2.62%</b>
Aluminum Foil & Foil Trays	6.78%	53.37%	<b>46.59%</b>
Other Aluminum Containers	53.33%	89.00%	<b>35.67%</b>
<i>Steel Alcoholic Beverage Cans Over 1 L</i>			
<i>Steel Alcoholic Beverage Cans 1 L and Under</i>			
Steel Food & Other Beverage Cans	74.59%	53.67%	<b>-20.92%</b>
Steel Aerosol Cans	16.24%	48.84%	<b>32.60%</b>
Steel Paint Cans	94.63%	23.98%	<b>-70.65%</b>
<i>Clear Glass Beer Over 630 ml</i>			
<i>Clear Glass Beer 630 ml and Under</i>	0.00%		
<i>Clear Glass Other Alcohol Over 630 ml</i>			
Clear Glass Other Alcohol Over 100 ml and Less Than or Equal to 630 ml	55.56%	50.62%	<b>-4.94%</b>
Clear Glass Other Alcohol 100 ml and Under		100.00%	<b>100.00%</b>
<i>Coloured Glass Beer Over 630 ml</i>			
Coloured Glass Beer 630 ml and Under	38.16%	100.00%	<b>61.84%</b>
<i>Coloured Glass Other Alcohol Over 630 ml</i>			
<i>Coloured Glass Other Alcohol Over 100 ml and Less Than or Equal to 630 ml</i>			
<i>Coloured Glass Other Alcohol 100 ml and Under</i>			
Clear Glass Other Beverage and Food	69.73%	64.04%	<b>-5.69%</b>
Coloured Glass Other Beverage and Food	91.75%	27.99%	<b>-63.76%</b>
<b>Blue Box Total without Contamination</b>	<b>26.65%</b>	<b>35.68%</b>	<b>9.03%</b>

*Appendix E*  
Detailed Bag Check

QWS- Clear Bag Pilot Waste Audit  
Appendix E

Area	Town of Madoc				
Date	Week 1				
Bag #	Clear	Privacy Bags in Clear	Privacy Bag Exceeds Size	Recycling Contaminants	
	YES/NO	#	YES/NO	YES/NO	If Yes #
1	yes	0	n/a	no	n/a
2	yes	1	no	yes	3
3	yes	5	no	yes	3
4	yes	2	no	yes	3
5	yes	5	no	yes	3
6	yes	0	n/a	no	n/a
7	yes	0	n/a	no	n/a
8	yes	1	no	no	n/a
9	yes	1	no	yes	1
10	yes	1	no	no	n/a
	10	3	0	5	5
Area	Springbrook				
Date	Week 1				
1	yes	1	no	yes	3
2	yes	0	n/a	yes	3
3	yes	0	n/a	yes	3
4	yes	0	n/a	yes	2
5	yes	0	n/a	yes	3
6	yes	0	n/a	yes	3
	6	0	0	6	6
Area	Madoc Township				
Date	Week 2				
1	yes	4	no	?	?
2	yes	0	n/a	yes	3
3	yes	1	no	yes	3
4	yes	0	n/a	no	n/a
5	yes	2	no	no	n/a
6	yes	0	no	yes	3
7	yes	2	no	yes	3
8	yes	1	no	no	no
9	yes	2	n/a	yes	2
10	no	1	no	?	?
	9	4	0	5	5
Area	Town of Madoc				
Date	Week 2				
1	yes	2	no	yes	3
2	yes	1	no	yes	3
3	yes	1	no	yes	3
4	yes	0	n/a	no	n/a
5	yes	0	n/a	no	n/a
6	yes	1	no	yes	3
7	yes	5	no	yes	3
8	yes	5	no	yes	3
9	yes	0	n/a	no	n/a
	9	3	0	6	6
Area	Springbrook				
Date	Week 2				
1	yes	0	n/a	yes	2
2	yes	1	no	yes	2
	2	0	0	2	2
Bag #	Clear	Privacy Bags in Clear	Privacy Bag Exceeds Size	Recycling Contaminants	
	YES/NO	#	YES/NO	YES/NO	If Yes #
	36	10	0	24	