

TECHNICAL MEMORANDUM



DATE: April 16, 2024
TO: Kervin St. Aimie, Director, City of Clearwater Solid Waste/Recycling
Asami Tanimoto, Sr. Bus. Systems and Program Analytics Mgr., The Recycling Partnership
FROM: Ryan Graunke, Consultant
SUBJ: Clearwater Recyclables Composition and Capture Studies
PROJ #: 201-03 and 230-13.5

Kessler Consulting, Inc. (KCI) is pleased to submit this technical memorandum to the City of Clearwater (City) and The Recycling Partnership (TRP) detailing the results of a Citywide Recyclables Composition and Capture Study (Study) conducted January 2024. The recyclables composition portion of the Study measured the composition of the single stream recycling stream collected by the City. The results will be used to establish the average market value (AMV) per the City's recycling processing contract with Waste Connections. In addition, the Study identified contaminants within the recycling stream to assist the City in outreach and education efforts to reduce contamination.

The capture portion of the Study compared the composition and generation of both the trash and recycling streams from single-family residential households to calculate the recovery and capture rate of recyclables to further evaluate the performance of the City's recycling program. KCI contracted with the City to conduct the recyclables composition portion and with TRP to include the additional samples of single-family residential trash and additional data analysis for the capture portion. This technical memorandum summarizes the methodology and results of the full Study.

Background

The City provides once-per-week collection service of trash, recyclables, and yard waste to all single-family households in the City. Residential trash, recycling, and yard waste are collected on Monday, Tuesday, Thursday, and Friday, with all three materials collected on the same day for each household¹. Residential trash and recycling are collected in automated side loader (ASL) trucks. The City runs seven residential ASL trash routes and six residential ASL recycling routes each day (except five on Tuesday).

The City also provides trash and recyclables collection service to multi-family residential and commercial properties in the City. The City runs two multi-family single stream recycling routes each day (Monday through Friday) using rear-end loader (REL) trucks; these routes also included some carted commercial recycling. Commercial single stream recyclables are collected on one route on Friday and one route on Tuesday using a front-end loader (FEL) truck, in addition to dedicated commercial corrugated cardboard routes, which were not included as part of this Study. Multi-family and commercial trash were also not included in this Study. The City also operates a recycling drop-off location at its recycling center.

Trash is delivered to the City-owned and -operated transfer station and is then transferred to the Pinellas County Solid Waste Disposal Complex, where it is disposed of at the waste-to-energy facility. Recyclables are delivered to the City-owned and -operated recycling center where it is loaded into

¹ The City has about 550 households with Thursday trash and Friday recycling collection.

transfer trailers and transported to Waste Connection’s material recovery facility (MRF) located at 1190 20th St. N, St. Petersburg, Florida where they are processed under the City’s contract with Waste Connection.

Table 1 lists the annual tons (2/2/2023 through 1/31/2024) of single stream recycling for each generator sector collected by the City. Table 2 lists the annual tons of trash and recycling for single-family households by collection day, as well as the total number of households and annual average household generation rate by day.

Table 1: Annual Tons of Single Stream Recycling

Sector	Tons	Percent	Notes
Single-Family Residential	6,189.38	74.9%	All loads of single stream recycling delivered by automated side-loader trucks.
Multi-Family Residential	1,103.98	13.4%	All loads of single stream recycling delivered by rear-end loader or multi-family trucks. This also includes some commercial properties serviced on these routes.
Commercial	812.46	9.8%	All loads of single stream recycling delivered by front-end loader trucks.
Drop-Off	119.20	1.4%	All loads of single stream recycling identified as originating from the drop-off center.
Roll-Offs	35.98	0.4%	All loads of single stream recycling delivered by roll-off trucks.
Total	8,261.00	100%	

Note: Compiled from scalehouse data provided by the City as specified in the notes column. These tonnages do not include loads of corrugated cardboard from the City or any recycling from Safety Harbor or Belleair. As a result, the total is not equal to the total on the City’s recycling dashboard.

Table 2: Single-Family Residential Tonnages, Households, and Generation by Collection Day

Collection Day	Households ¹	Annual Tons ²	Generation (pounds/household/year)
Trash			
Monday	7,639	6,017.30	1,575.42
Tuesday	7,343	6,751.21	1,838.82
Thursday	7,900	5,686.86	1,439.71
Friday	6,836	6,116.48	1,789.49
Total	29,718	24,571.85	1,653.67
Recycling			
Monday	7,599	1,582.51	416.50
Tuesday	7,175	1,611.12	449.09
Thursday	7,515	1,506.62	400.96
Friday	7,316	1,489.13	407.09
Total	29,605	6,189.38	418.13

¹Household counts were obtained using the City’s database of collection day by address after removing any addresses with unit numbers, which were assumed to be multi-family units. Note: About 550 households have Thursday trash and Friday recycling collection. In addition, some households are in communities with carted recyclables collected by the residential ASL-trucks but with trash collected in centralized dumpster/compactors not collected on the residential ASL trucks.

²Annual Tons are from the City’s scalehouse data for February 2023-January 2024 totaling the tonnages from residential ASL truck by day of the week tipped at the transfer station/recycling center, adjusting any holiday collection to the respective day.

Methodology

The sampling and sorting event was conducted from January 19-26, 2024, respectively. Sampling occurred Friday through Thursday, while sorting occurred Monday through Friday. Trash was sampled at the City’s transfer station located at 1005 Old Coachman Rd., Clearwater, FL 3376. Recycling was sampled and all sorting occurred at the City’s recycling center located at 1701 N Hercules Ave, Clearwater, FL 33765.

Sampling Schedule

For recycling KCI developed a sampling schedule (Table 3) based on the tonnages of recycling from each sector and the number of available routes for a total of 27 recycling samples. For trash, a total of 18 samples were pulled. KCI randomly pre-selected recycling and trash routes to be sampled during the sorting event. KCI prepared and provided the City with placards to give to the drivers of the preselected routes notifying them of their inclusion in the Study.

Table 3: Trash and Recycling Sample Schedule

Material	Sector	Fri 1/19	Mon 1/22	Tue 1/23	Wed 1/24	Thu 1/25	Total
Recycling	Single-Family Residential	5	5	5	-	5	20
	Multi-Family Residential	-	1	1	1	1	4
	Commercial	1	-	1	-	-	2
	Drop-Off				1		1
	Total	6	6	7	2	6	27
Trash	Single-Family Residential	4	5	5	-	4	18

Sampling Procedure

KCI pulled a sample from the first tip the truck assigned to each selected route following the Sampling and Sorting Protocol approved by TRP and the City prior to the sorting event. For trash, a sample weighing at least 200 pounds was pulled from a random area of the tipped load. For recycling, the tipped load was thoroughly mixed and a sample weighing at least 150 pounds was pulled from a random area of the mixed load. Samples were then delivered to the sorting area at the recycling facility.

Sorting Procedure

With a crew of temporary laborers, KCI hand-sorted each sample into the material categories as previously approved by TRP and City staff and located in Attachment A. Figure 1 shows the sample sorting process. Throughout the sorting process, KCI staff examined all sorting bins to ensure accurate sorting of all material categories. The weight of each sorted material was then recorded for each sample. Bagged material found in the recycling were examined by KCI staff. If the bag contained more than approximately 20 percent non-recyclables or was heavily contaminated, it was placed into the Bagged Waste category; otherwise, it was placed into the Bagged Recyclables category. At the end of the sampling and sorting event, Bagged Recyclables, which were saved from all recycling samples, were opened and sorted. Note: The composition of Bagged Recyclables was measured for informational purposes only and not included in the overall recycling composition. For the purposes of the recycling composition, Bagged Recyclables were considered a contaminant.

Figure 1: Sample Sorting Process

Data Analysis

After completing the sorting event, KCI compiled the data and calculated the following metrics.

- **Composition (percentage by weight):** The weighted average composition of the trash and recycling streams for each generator sector and collection day (single-family residential only) was calculated by averaging the composition of each sample weighted by the sample's respective load weight. Figure 2 illustrates an example of this weighting for Mixed Paper in Friday's residential recycling. The weighted average composition of the Citywide trash and recycling stream was calculated by averaging the composition for each generator sector and collection day weighted by the total annual trash or recycling tonnage for the generator sector and collection day. Figure 3 illustrates an example of this weighting for Mixed Paper in Citywide recycling. Weighting the average composition by annual tons ensures that the generator sectors and collection days are appropriately represented in the average composition.

Figure 2: Example of Weighted Average By Generator Sector/Day Composition Analysis

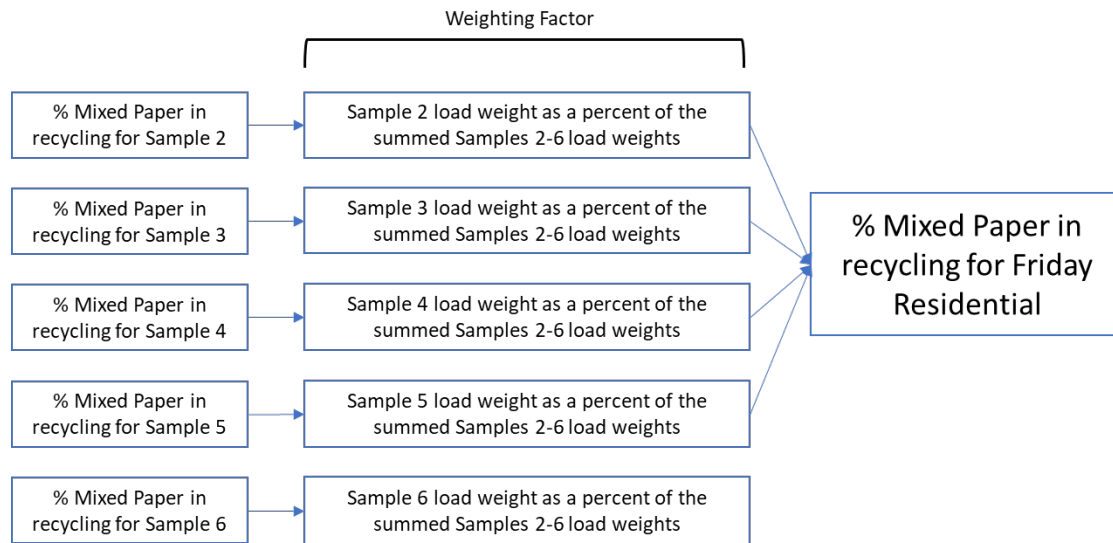
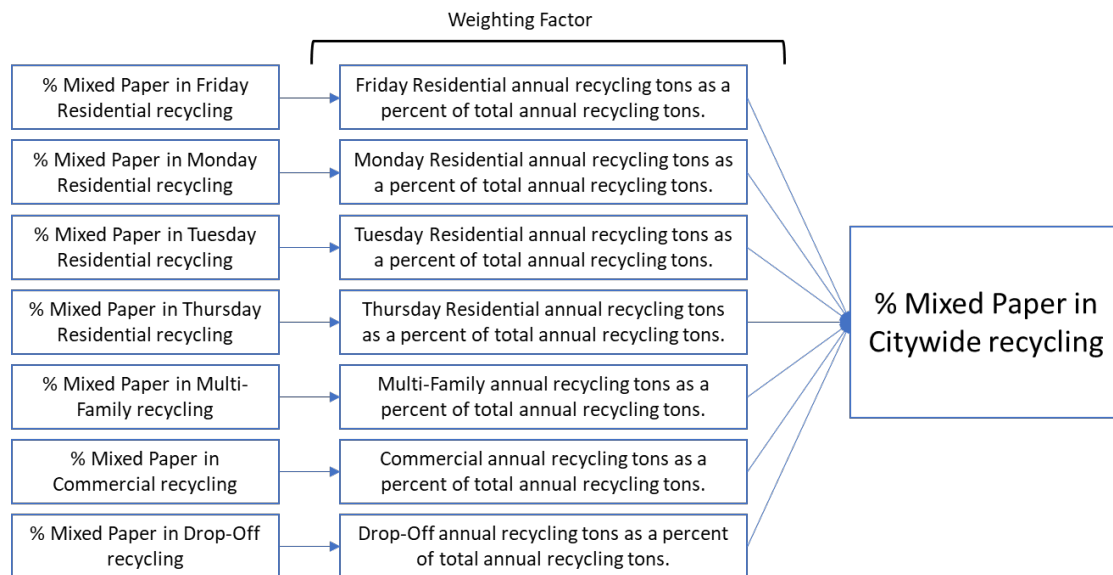
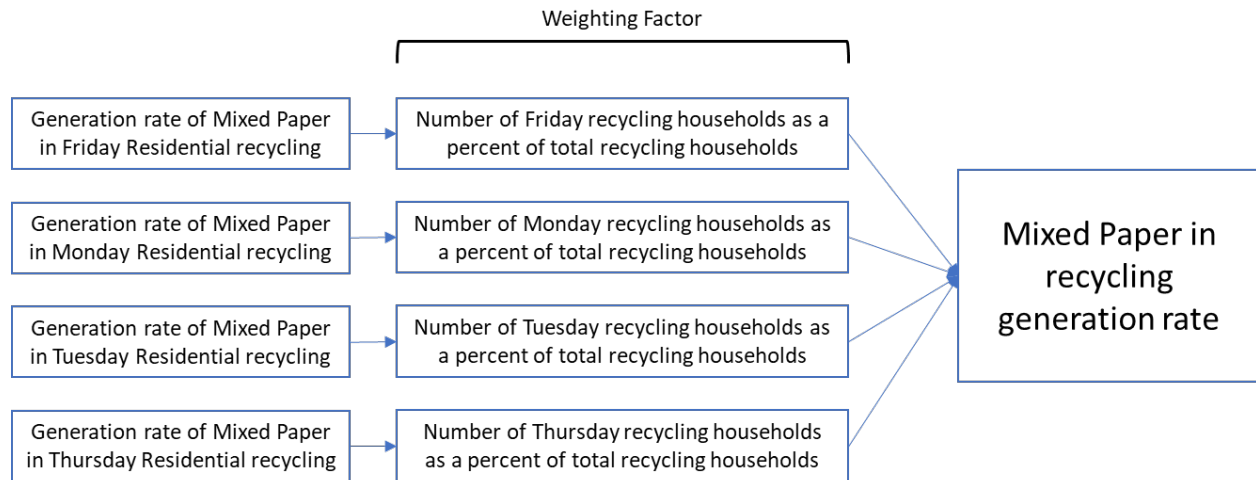


Figure 3: Example of Citywide Weighted Average Composition Analysis



- Annual Generation (pounds per household per year):** Generation rate was only calculated for the single-family residential generator sector, as this was the only sector included in the capture study. The annual generation rate for each residential collection day was calculated by dividing the annual tons for each collection day by total households for each collection day, as shown above in Table 2. The generation rate of each material type by collection was calculated by multiplying the average composition of the collection day by the respective total trash or recycling generation rate. The Citywide residential generation rate of each material type was calculated by weighting material generation rate for each collection day by the number of households for each collection day. Figure 4 illustrates an example of this weighting for Mixed Paper in recycling. Weighting the average generation by number of households ensures that each collection day is appropriately represented in the average generation rate.

Figure 4: Example of Weighted Average Generation Rate Analysis



- **Apparent Recovery Rate (percentage by weight):** The apparent recovery rate is the total generation rate of the recycling stream divided by the total generation rate of both trash and recycling.
- **Actual Recovery Rate (percentage by weight):** The actual recovery rate is the generation rate of Program Recyclables in the recycling stream divided by the total generation rate of both trash and recycling. Note: The actual recovery rate deducts contamination in the recycling stream.
- **Capture Rate (percentage by weight):** The capture rate of each material that was considered to be a Program Recyclable was calculated by dividing the average generation of each material type in the recycling stream by the total generation of that material in both the trash and recycling streams. The total capture rate of all Program Recyclables was also calculated.
- **Confidence Intervals:** A 90 percent confidence interval was also calculated for the Citywide average compositions and generation rates using a standard statistical t-test. The confidence interval indicates that, with a 90 percent level of confidence, the actual mean is within the upper and lower limits of the interval.²

Results

This section summarizes the composition of trash and recycling and the generation, recovery, and capture rates measured during the Study. For the purposes of analysis and discussion, the material categories in the Study were organized into the following groups:

- **Program Recyclables:** All recyclable materials that are accepted in the City’s recycling program. This is subdivided into Program Recyclable Fiber and Program Recyclable Containers.

² Note: Because this is a statistical analysis, the lower end of the confidence interval may be a negative number. This interval provides an understanding of how much variation occurred in the quantity of that material category found in the samples sorted. Generally, a more homogeneous stream and a greater number of samples sorted will have a higher level of accuracy and a narrower margin between the upper and lower bounds of the confidence interval.

- Contaminants (recycling stream): All materials in the recycling stream that are not accepted in the City's recycling program.
- Potentially Compostable Materials (trash stream): Materials in the trash stream that potentially could be composted in a commercial composting facility.
- All Other Materials (trash stream): All materials in the trash stream that are not accepted in the City's recycling program or are not potentially compostable.

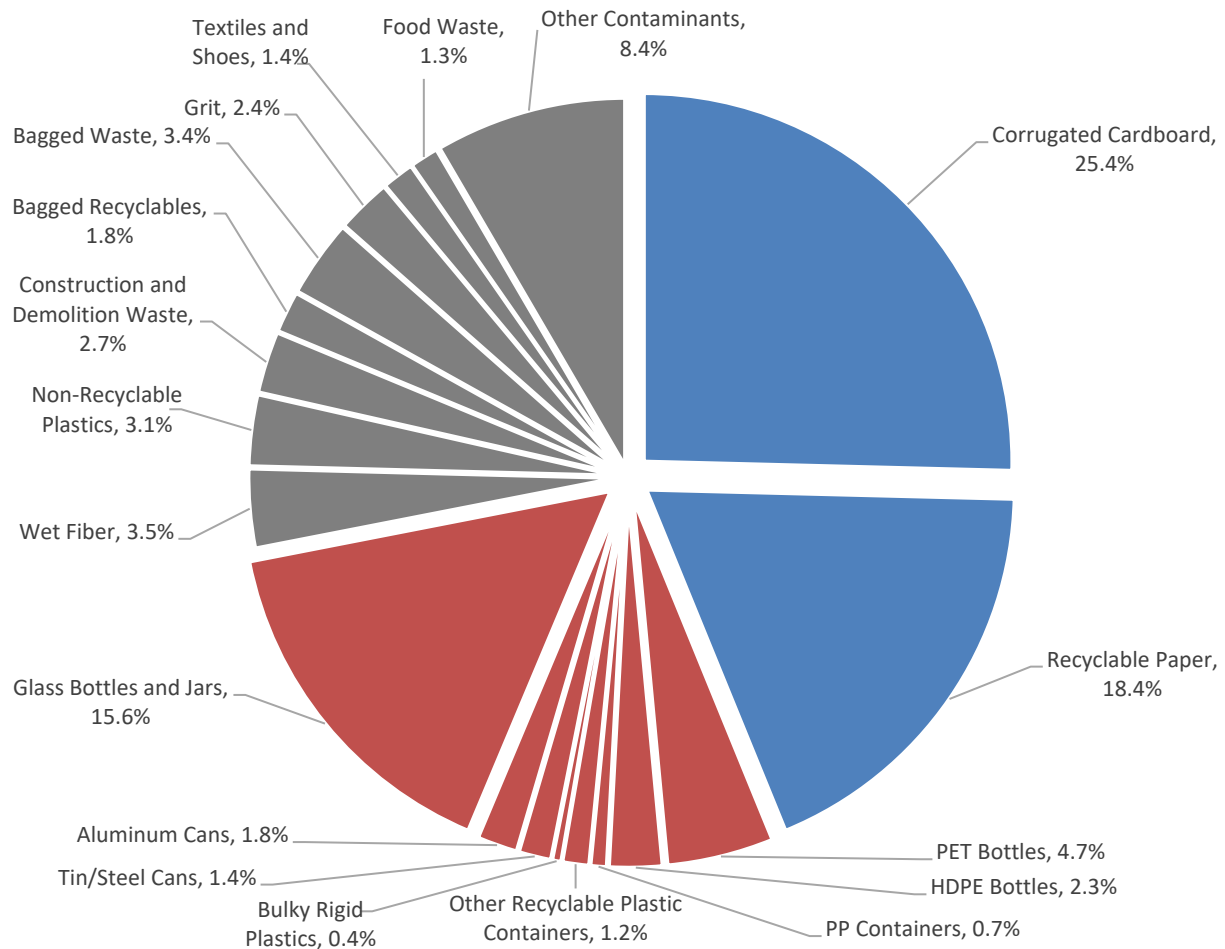
Composition Results – Citywide Recycling

Figure 5 depicts the Citywide average composition of single stream recycling. Table 4 provides the detailed composition of single stream recycling for each generator sector and the Citywide average with 90 percent confidence interval for each material category. Table 5 provides the composition of Bagged Recyclables aggregated from all samples (for informational purposes only). Table 6 calculates the AMV of the Citywide single stream recyclables per the City's contract with Waste Connections. The composition and weight of individual samples are in Attachment B (percent by weight) and Attachment C (sample weights).

Key findings from the Citywide composition results include:

- About 44 percent of the recycling stream was Program Recyclable Paper. Most of this was Corrugated Cardboard (about 25 percent of the stream). Corrugated Cardboard was highest in the Commercial recycling stream, at about 65 percent.
- About 28 percent of the recycling stream was Program Recyclable Containers, over half of which were Glass Containers. Glass Containers had especially high percentages in the multi-family and drop-off streams. Recyclable plastic containers comprised about 9 percent of the stream, about half of which were PET Bottles, Jugs, and Jars – Clear. Metal Cans comprised about 3 percent of the stream, roughly equal between Tin/Steel Cans and Aluminum Cans.
- Contaminants comprised about 28 percent of the total recycling stream.
 - Some of the significant contaminants included Bagged Waste, Construction and Demolition Waste, Grit (including dirt and small pieces of broken glass), and Other Contaminants, which were primarily composite materials (i.e., items made of more than one material). These four categories collectively comprised almost 12 percent of the stream.
 - Wet fiber (i.e., Wet Cardboard and Wet Paper) collectively comprised about 3.5 percent of the stream. Rain in the area during the week of the sorting event may have caused some of this wet fiber due to residents leaving their carts open or raining on the trucks during collection.
 - Bagged Recyclables comprised nearly 2 percent of the stream. About 75 percent of the Bagged Recyclables were Program Recyclables, most of which were Mixed Paper, Glass Bottles and Jars, and PET Bottles, Jugs, and Jars – Clear.
 - The single-family residential recycling had a much higher percentage than the other generator sectors; it was nearly double the next highest sector, commercial. The drop-off recyclables had very low percentage of Contaminants.
- The AMV of the Citywide single stream recyclables measured in the Study using April 2024 index prices is \$92.72/ton.

Figure 5: Citywide Single Stream Recycle Composition



For the purposes of this figure, the following categories have been combined:

- Recyclable Paper includes the categories of Newspapers, Magazines, and Catalogs and Mixed Paper.
- PET Bottles includes the categories of PET Bottles, Jugs, Jars – Clear (#1) and PET Bottles, Jugs, Jars - Opaque/ Pigmented (#1).
- HDPE Bottles includes the categories of Natural HDPE Bottles (#2) and Colored HDPE Bottles (#2).
- PP Containers includes the categories of PP Bottles, Jars, Jugs (#5), PP Clamshells (#5), PP Tubs (#5), PP Drink Cups (#5), and Other PP Non-bottle Rigid (#5).
- Other Recyclable Plastic Containers includes the categories of PET Clamshells (#1), PET Drink Cups (#1), Other PET Non-bottle Rigid - Clear (#1), Other PET Non-bottle Rigid - Opaque/ Pigmented (#1), Non-bottle HDPE Containers (#2), Other Plastic Drink Cups (#3, #4, #6, #7), and Other Small Rigid Packaging Containers (#3, #4, #6, #7).
- Wet Fiber includes the categories of Wet Cardboard and Wet Paper.
- Non-Recyclable Plastics includes the categories of Expanded Polystyrene Foam, Plastic Bags and Clean Film, Plastic Garbage Bags, Other Plastic Film/Flexibles, Bulky Rigid Plastics, and Unacceptable Rigid Plastics.
- Other Contaminants includes the categories of Aseptic Boxes and Gable Top Cartons, Compostable Paper, Non-recyclable Paper, Aluminum Foil and Trays, Scrap Metals, Unacceptable Glass, Ceramics, and Porcelain, Food Waste, Yard Waste, Hazardous/Special Waste, Batteries, Sharps, E-waste & Small Appliances, Bulky Items, Tangles, Disposable Diapers, and Other Contaminants.

Table 4: Citywide Single Stream Recycling Composition

Material Category	SF Resi	MF Resi	Comm	DO	Citywide	90% Confidence Interval	
						Lower	Upper
Corrugated Cardboard	22.7%	13.6%	64.9%	5.4%	25.4%	20.4%	30.4%
Newspapers, Magazines, and Catalogs	5.4%	8.8%	1.1%	6.4%	5.4%	4.0%	6.9%
Mixed Paper	12.8%	17.1%	5.8%	36.1%	13.0%	10.7%	15.3%
Program Recyclable Paper	40.9%	39.4%	71.8%	47.9%	43.8%	38.6%	49.1%
PET Bottles, Jugs, Jars – Clear (#1)	4.7%	4.9%	1.9%	4.9%	4.5%	3.9%	5.1%
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.2%	0.3%	0.1%	0.1%	0.2%	0.1%	0.2%
PET Clamshells (#1)	0.6%	0.6%	0.2%	0.5%	0.6%	0.4%	0.7%
PET Drink Cups (#1)	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.1%
Other PET Non-bottle Rigid - Clear (#1)	0.3%	0.2%	0.3%	0.1%	0.3%	0.2%	0.3%
Other PET Non-bottle Rigid – Op./ Pig. (#1)	0.1%	0.1%	0.0%	0.0%	0.1%	0.0%	0.2%
Natural HDPE Bottles (#2)	1.2%	1.0%	0.8%	1.3%	1.2%	0.9%	1.4%
Colored HDPE Bottles (#2)	1.2%	1.2%	0.7%	2.0%	1.2%	0.9%	1.4%
Non-bottle HDPE Containers (#2)	0.1%	0.1%	0.0%	0.2%	0.1%	0.1%	0.2%
PP Bottles, Jars, Jugs (#5)	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
PP Clamshells (#5)	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
PP Tubs (#5)	0.4%	0.4%	0.2%	0.1%	0.4%	0.3%	0.4%
PP Drink Cups (#5)	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.2%
Other PP Non-bottle Rigid (#5)	0.1%	0.0%	0.1%	0.2%	0.1%	0.0%	0.1%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.1%	0.2%	0.0%	0.1%	0.0%	0.1%
Bulky Rigid Plastics	0.5%	0.1%	0.2%	0.0%	0.4%	0.2%	0.6%
Tin/Steel Cans	1.6%	1.2%	0.4%	1.5%	1.4%	1.2%	1.6%
Aluminum Cans	1.9%	1.9%	0.4%	1.8%	1.8%	1.5%	2.0%
Glass Bottles and Jars	13.4%	33.3%	5.3%	35.1%	15.6%	11.7%	19.5%
Program Recyclable Containers	26.8%	45.8%	11.1%	48.0%	28.1%	24.1%	32.1%
Wet Cardboard	1.4%	1.4%	0.0%	0.0%	1.2%	0.8%	1.6%
Wet Paper	2.5%	2.7%	0.3%	0.0%	2.3%	1.5%	3.0%
Aseptic Boxes and Gable Top Cartons	0.6%	0.5%	0.2%	0.7%	0.5%	0.5%	0.6%
Compostable Paper	0.6%	0.4%	0.1%	0.1%	0.5%	0.4%	0.7%
Non-recyclable Paper	0.5%	0.4%	0.5%	0.2%	0.5%	0.4%	0.6%
Expanded Polystyrene Foam	0.2%	0.1%	0.2%	0.1%	0.2%	0.2%	0.3%
Plastic Bags and Clean Film	0.8%	0.4%	0.5%	0.2%	0.7%	0.5%	1.0%
Plastic Garbage Bags	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastic Film/Flexibles	1.0%	0.4%	0.4%	0.4%	0.9%	0.7%	1.0%
Unacceptable Rigid Plastics	1.6%	0.9%	0.4%	0.5%	1.4%	1.1%	1.6%
Aluminum Foil and Trays	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Scrap Metals	0.4%	0.5%	0.0%	0.0%	0.4%	0.2%	0.6%
Unacceptable Glass, Ceramics, and Porcelain	0.2%	1.6%	0.0%	0.0%	0.3%	0.1%	0.6%
Food Waste	1.5%	0.5%	0.7%	0.3%	1.3%	0.8%	1.8%
Yard Waste	0.9%	0.0%	0.2%	0.0%	0.7%	-0.1%	1.6%
Textiles and Shoes	1.7%	0.0%	1.1%	0.1%	1.4%	1.0%	1.8%
Construction and Demolition Waste	3.5%	0.4%	0.0%	0.0%	2.7%	0.8%	4.7%
Hazardous/Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E-waste & Small Appliances	1.6%	0.0%	0.0%	0.0%	1.2%	0.0%	2.4%
Bulky Items	0.2%	0.0%	5.4%	0.0%	0.7%	-0.5%	1.8%
Tanglers	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Bagged Recyclables	1.8%	0.9%	3.3%	0.0%	1.8%	0.9%	2.7%
Bagged Waste	4.3%	0.5%	1.0%	0.0%	3.4%	1.8%	5.0%
Disposable Diapers	0.5%	0.0%	0.0%	0.0%	0.4%	0.1%	0.6%
Other Contaminants	3.5%	1.4%	2.1%	1.3%	3.0%	2.2%	3.9%
Grit	2.8%	1.8%	0.7%	0.3%	2.4%	1.8%	3.0%
Contaminants	32.3%	14.8%	17.1%	4.1%	28.1%	23.2%	33.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%		

Note: Columns may not appear to correctly sum due to rounding.

Table 5: Bagged Recyclables Composition

Material Category	Percent
Corrugated Cardboard	6.8%
Newspapers, Magazines, and Catalogs	2.9%
Mixed Paper	14.6%
Program Recyclable Fiber	24.4%
PET Bottles, Jugs, Jars – Clear (#1)	9.2%
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	2.5%
PET Clamshells (#1)	0.5%
PET Drink Cups (#1)	0.0%
Other PET Non-bottle Rigids - Clear (#1)	0.0%
Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.0%
Natural HDPE Bottles (#2)	1.5%
Colored HDPE Bottles (#2)	1.1%
Non-bottle HDPE Containers (#2)	0.0%
PP Bottles, Jars, Jugs (#5)	0.1%
PP Clamshells (#5)	0.2%
PP Tubs (#5)	0.4%
PP Drink Cups (#5)	0.2%
Other PP Non-bottle Rigids (#5)	0.2%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%
Bulky Rigid Plastics	0.0%
Tin/Steel Cans	2.5%
Aluminum Cans	3.4%
Glass Bottles and Jars	29.0%
Program Recyclable Containers	50.7%
Wet Cardboard	0.0%
Wet Paper	2.0%
Aseptic Boxes and Gable Top Cartons	0.5%
Compostable Paper	1.8%
Non-recyclable Paper	1.4%
Expanded Polystyrene Foam	0.3%
Plastic Bags and Clean Film	1.7%
Plastic Garbage Bags	3.5%
Other Plastic Film/Flexibles	0.5%
Unacceptable Rigid Plastics	1.7%
Aluminum Foil and Trays	1.0%
Scrap Metals	0.3%
Unacceptable Glass, Ceramics, and Porcelain	0.4%
Food Waste	1.3%
Yard Waste	0.0%
Textiles and Shoes	0.1%
Construction and Demolition Waste	0.0%
Hazardous / Special Waste	0.0%
Batteries	0.2%
Sharps	0.0%
E-waste & Small Appliances	0.0%
Bulky Items	0.0%
Tanglers	0.0%
Bagged Recyclables	0.0%
Bagged Waste	0.0%
Disposable Diapers	1.1%
Other Contaminants	4.7%
Grit	2.4%
Contaminants	24.9%
Total	100.0%

Note: Columns may not appear to correctly sum due to rounding.

Table 6: Average Market Value of Single Stream Recyclables – April 2024 Index Prices

Program Material	Composition % (January 2024)	RecyclingMarkets.net	Index Price (\$/ton) April 2024	AMV (\$/ton) April 2024
Mixed Paper PS#54	13.00%	Southeast Region	\$72.50	\$9.43
SRPN PS#56 ¹	5.43%	Southeast Region	\$82.50	\$4.48
Cardboard PS#11	25.40%	Southeast Region	\$115.00	\$29.21
PET ²	4.68%	Southeast Region	\$310.00	\$14.51
Natural HDPE	1.16%	Southeast Region	\$660.00	\$7.66
Colored HDPE	1.17%	Southeast Region	\$460.00	\$5.38
PP ³	0.71%	Southeast Region	\$140.00	\$0.99
Plastics #3-7 ⁴	1.17%	Southeast Region	\$10.00	\$0.12
Mixed Bulky Rigid	0.40%	Southeast Region	\$10.00	\$0.04
Aluminum	1.77%	Southeast Region	\$1,290.00	\$22.83
Steel	1.43%	Southeast Region	\$220.00	\$3.15
Mixed Glass	15.61%	Southeast Region	(\$32.50)	(\$5.07)
Contamination	28.07%	n/a	n/a	n/a
Total	100.00%			\$92.72

¹ Is the category of Newspapers, Magazines, and Catalogs.

² Includes the categories of PET Bottles, Jugs, Jars – Clear (#1) and PET Bottles, Jugs, Jars - Opaque/ Pigmented (#1).

³ Includes the categories of PP Bottles, Jars, Jugs (#5), PP Clamshells (#5), PP Tubbs (#5), PP Drink Cups (#5), and Other PP Non-bottle Rigid (#5).

⁴ Includes the categories of PET Clamshells (#1), PET Drink Cups (#1), Other PET Non-bottle Rigid - Clear (#1), Other PET Non-bottle Rigid - Opaque/ Pigmented (#1), Non-bottle HDPE Containers (#2), Other Plastic Drink Cups (#3, #4, #6, #7), and Other Small Rigid Packaging Containers (#3, #4, #6, #7).

Composition Results – Single-Family Residential Trash and Recycling

Table 7 summarizes the single-family residential composition of the material groups for each collection day and the Citywide average. Detailed compositions of residential trash and recycling are in Attachment D.

Key findings from the composition results include:

Recycling Stream

- On average about 41 percent of the single-family residential recycling was Program Recyclable Paper and 27 percent was Program Recyclables Containers.
- Monday’s samples had the highest average percentage of Corrugated Cardboard and Mixed Paper, while Thursday’s samples had the highest average percentage of Glass Bottles and Jars.
- About one third (32 percent) of the residential recycling stream was Contaminants. Contamination was highest in Tuesday’s samples and lowest in Monday’s samples.

Trash Stream

- Program Recyclables comprised nearly 18 percent of the residential trash, about equally split between Program Recyclable Paper and Program Recyclable Containers. Thursday’s samples had the lowest average percentage of Program Recyclables in the trash.

- Nearly 40 percent of the trash stream was Potentially Compostable Materials, the vast majority of which was Food Waste. Thursday had the highest percentage of these materials.
- All Other Materials comprised almost 45 percent of the trash stream.
 - Over 10 percent of the trash stream was All Other Garbage, which included composite materials and pet waste.
 - Other major categories in this group included Construction and Demolition Waste, Disposable Diapers, Textiles and Shoes, and Non-Recyclable Paper.

Table 7: Single-Family Residential Composition Summary

	Mon	Tue	Thu	Fri	Citywide Single-Family Residential	90% Confidence Interval	
						Lower Bounds	Upper Bounds
Recycling Stream							
Program Recyclable Paper	50.3%	35.7%	35.2%	42.2%	40.9%	36.2%	45.5%
Program Recyclable Containers	25.6%	24.7%	32.2%	24.8%	26.8%	24.0%	29.6%
Contamination	24.1%	39.6%	32.5%	33.0%	32.3%	27.4%	37.3%
Trash Stream							
Program Recyclable Paper	10.1%	8.7%	7.6%	9.0%	8.9%	7.4%	10.3%
Program Recyclable Containers	8.2%	9.5%	7.5%	10.5%	9.0%	8.0%	9.9%
Potentially Compostable Materials	34.4%	36.0%	45.3%	36.2%	37.8%	35.2%	40.4%
All Other Materials	47.2%	45.8%	39.6%	44.4%	44.4%	41.3%	47.4%

Single-Family Residential Generation, Recovery, and Capture Results

Table 8 shows the single-family residential generation (pounds/household/year), recovery, and capture rates for each collection day and the Citywide average. Detailed generation rates by material type are provided in Attachment E. Generation and capture rates of individual Program Recyclables are in Attachment F.

Key findings from the generation, capture, and recovery results include:

- On average, single-family households in the City generated about 418 pounds of recycling (including contamination) and 1,650 pounds of trash per household per year. This equated to an apparent recovery rate of about 20 percent or an actual recovery rate (deducting contamination from the recycling) of nearly 14 percent.
- Single-family households generated an average of nearly 580 pounds of Program Recyclables per household per year. About 283 pounds were in the recycling stream and 295 pounds in the trash stream equating to a recyclables capture rate of 49 percent.
- Tuesday had the highest recycling stream generation at about 450 pounds per household per year, which also included the highest generation of contamination in the recycling stream. For the trash stream, Tuesday and Friday had higher average generation rates (between 1,790 and 1,840 pounds per household per year), while Thursday had the lowest trash generation rate at 1,440 pounds per household per year.

- Thursday had the highest recyclables capture rate of any collection day, at about 55 percent, due to lower contamination rate, lower percent of recyclables in the trash, and lower trash generation.
- Corrugated Cardboard had the highest capture rate of any individual program recyclable (over 75 percent) and also had the second highest generation, behind Mixed Paper. The Program Recyclable Containers had a lower overall capture rate than Program Recyclable Paper (43 percent compared to 54 percent).

Table 8: Residential Generation (pounds/household/year), Capture, and Recovery Rates

	Mon	Tue	Thu	Fri	Citywide Single-Family Residential	90% Confidence Interval	
						Lower Bounds	Upper Bounds
Recycling Stream							
Program Recyclable Paper	209.4	160.2	141.3	171.8	170.9	129.5	212.2
Program Recyclable Containers	106.8	111.1	129.2	100.8	112.0	98.0	126.1
Contamination	100.3	177.8	130.4	134.5	135.2	89.2	181.2
Total	416.5	449.1	401.0	407.1	418.1	389.2	447.0
Trash Stream							
Program Recyclable Paper	159.1	159.9	110.0	160.6	146.6	112.9	180.3
Program Recyclable Containers	129.6	174.6	108.0	187.4	148.3	108.3	188.2
Potentially Compostable Materials	542.7	662.3	652.1	647.2	625.4	547.3	703.4
All Other Materials	744.0	842.0	569.6	794.3	733.4	571.1	895.8
Total	1,575.4	1,838.8	1,439.7	1,789.5	1,653.7	1,414.9	1,892.4
Total Generation	1,991.9	2,287.9	1,840.7	2,196.6	2,071.8	1,804.1	2,339.5
Apparent Recovery Rate	20.9%	19.6%	21.8%	18.5%	20.2%	18.9%	21.5%
Actual Recovery Rate	15.9%	11.9%	14.7%	12.4%	13.7%	11.2%	16.1%
Recyclables Capture Rate	52.3%	44.8%	55.4%	43.9%	49.0%	42.6%	55.4%

Conclusions

The goal of this Study was to establish the AMV for the City’s recycling processing contract with Waste Connections and evaluate the single stream recycling program focusing on the single-family residential generator sector. This consisted of measuring the composition and generation of the trash and recycling stream in order to calculate the capture rate of recyclables in the City’s program. The following are overall findings and conclusions from the Study.

- The AMV using the composition in this Study was \$92.72/ton, which is higher than the AMV the City had been calculating using a composition from December 2022. Some reasons for this include:
 - A higher percentage of Cardboard and SRP in the current Study, both of which have a higher index value than Mixed Paper. SRP did not have any percentage in the old composition.
 - A lower percentage of Mixed Glass, which has a negative index value.
- The City’s residential recycling program is only capturing about half of the Program Recyclables that are generated. Corrugated Cardboard was the only material with a capture rate higher than 56 percent, while most other materials had a capture rate of less than 50 percent.

- The recycling stream had a high contamination rate (based on KCI's experience) at nearly 30 percent, which is above what a recycling facility would typically accept. KCI has assisted many jurisdictions with implementing customized recycling program improvement strategies and would be happy to discuss any of the below strategies the City could implement to reduce contamination:
 - Closely review all outreach and education platforms (e.g., brochures, webpages, social media, drop off signs, cart messaging, etc.) to ensure consistency in branding and that all accepted materials are up to date with the current accepted Program Recyclables and collection procedures.
 - Implement educational programming related to bagged material in the recycling stream. Bagged Waste was one of the most significant individual contaminants, especially on Friday. These are likely from residents placing a bag of trash into the recycling cart either through confusion over the correct cart or as overflow because the garbage cart was too full. Performing Cart-Tagging inspections and devising enforcement procedures for recycling cart removal for repeated offences could be effective in eliminating Bagged Waste from curbside recycling carts.
 - Similarly, Bagged Recyclables were about 2 percent of the recycling stream. Bagged Recyclables are missed opportunities of residents and businesses trying to do the right thing by recycling but not knowing it should not be bagged. Continuing education efforts focusing on not bagging recyclables could help make these materials commodities rather than contamination.
 - Several recycling samples had high percentages of Construction and Demolition Waste leading to an average of almost 3 percent of the recycling. These included drywall, tiles, and large bags of C&D. Other samples had a microwave, lamps, or large masses of leaves. Cart inspections coupled with tagging and rejecting carts with significant contamination like this could help reduce the number of instances. Additionally, the City could promote alternative reuse/repair options for small appliances, as well as target outreach efforts for routes with large quantities of C&D related contamination.
 - While the City is working hard to regain the trust of its residents after the controversy of disposing recycling in the trash, some residents may still falsely believe that the recycling is being disposed so they do not separate materials. As the City continues these efforts of promoting its program, contamination will likely decrease.
- By far, the single material with the highest generation in the single-family residential trash or recycling stream was Food Waste, accounting for over 27 percent of the trash stream or about 450 pounds per household per year (see Attachments B and E, respectively). While commercial trash was not included in this Study, typically commercial trash has a similar, if not higher, percentage of food waste as residential trash. If the City desires to make significant gains in waste reduction, it could consider looking into the feasibility of an organics collection program for composting or other organics recycling.
- An observation made by KCI staff during the fieldwork was that the area where recycling was tipped was largely uncovered, during rain events. This could result in significant wet fiber, which may not be able to be recovered at the MRF. Adding a cover to this area could help the City to deliver more processable material to the MRF, reducing contamination levels known to occur from wet fibers. Similarly, the trailers utilized by the City to transport the recycling to the MRF could be covered to prevent rain and weather from impacting the quality of collected fibers. KCI would be happy to discuss this and other operational opportunities for improving efficiency in

the transfer and transport systems for the City, as previously discussed with the City through an Operations Analysis.

- The results of this Study represent a snapshot of the composition of the City's trash and recyclables. While the week selected for the Study was intended to be representative of the typical waste stream of the City (e.g., avoiding major holidays or events), the composition may change seasonally throughout the year. A longer-term study or additional studies during different seasons could elucidate any changes in the composition and provide more representative data.

KCI would like to thank all City staff who assisted in the planning and execution of the fieldwork. KCI especially thanks all the drivers and operations staff for helping make the Study a success.

ATTACHMENT A: MATERIAL CATEGORY DESCRIPTIONS

#	Material Categories	Program Recyclable	Description of Categories
1	Corrugated Cardboard	Yes	Uncoated cardboard boxes with a wavy core, (no plastic liners, waxy coatings). Examples include shipping and moving boxes and packaging boxes. Includes clean pizza boxes (less than 30% coated with grease or food). <i>Does not include waxy or contaminated cardboard.</i>
2	Wet Cardboard (Recycling Only)	No	Corrugated cardboard that is waterlogged or has lost structural integrity due to moisture. <i>Does not include damp or contaminated cardboard or paper.</i>
3	Newspapers, Magazines, and Catalogs	Yes	All magazines and catalogs, including glossy magazines. Newspaper (loose or tied) including other paper normally distributed inside newspaper such as ads, flyers, etc. and other items made from newsprint such as advertising guides. <i>Does not include bagged newspaper.</i>
4	Mixed Paper	Yes	Printed or unprinted recyclable paper including white, colored, coated, and uncoated papers, envelopes, index cards, file folders, telephone books, paperboard, chipboard, Kraft paper, brown paper bags, mail, paperback books, blueprints, and other printed material on glossy and non-glossy paper. <i>Does not include shredded, contaminated, waxy, or metallic paper.</i>
5	Wet Paper (Recycling Only)	No	Mixed paper that is waterlogged or has lost structural integrity due to moisture. <i>Does not include damp or contaminated cardboard or paper.</i>
6	Aseptic Boxes and Gable Top Cartons	No	Aseptic Boxes: poly-coated fiber and foil containers (e.g., Tetra Pak®) designed for shelf-stable packaging, most often containing juice drinks, coconut waters, and dairy substitutes including soy, almond, rice milk, etc. May also include soups, broths, sauces, and liquid refills. Cartons: poly-coated containers with a gable shaped top, most often containing refrigerated juice drinks, dairy products, and dairy substitutes. May also contain other foods (e.g., eggs, sugar, molasses, crackers, candies, etc.). <i>Does not include Chinese take-out cartons, ice cream cartons, or similar items.</i>
7	Compostable Paper	No	Low grade paper that is not recyclable, as well as paper contaminated with food or water-saturated paper. Examples include paper towels, uncoated paper plates/cups/bowls, soiled pizza boxes (more than 30% coated with grease or food), fiber egg cartons, and tissues. <i>Does not include non-recyclable paper contaminated with food.</i>
8	Non-Recyclable Paper	No	Includes paper products with a plastic coating. Also includes items that are predominantly paper with other materials attached (e.g., orange juice cans and spiral notebooks) and other hard to recycle paper items such as carbon copy paper, receipts, hardcover books, and photographs. The items may be clean or food soiled. <i>Does not include contaminated paper or corrugated cardboard.</i>
9	PET Bottles, Jugs, Jars – Clear (#1)	Yes	Clear or light tinted translucent green/blue polyethylene terephthalate (PET #1) bottles, jugs, and jugs. Examples include bottled water, other bottled beverages, salad dressing, food sauce, and some household cleaning products. Also includes jars or canisters, such as for peanut butter, that are blow molded or injection blow molded. Caps/lids left on if attached.
10	PET Bottles, Jugs, Jars - Opaque/Pigmented (#1)	Yes	Opaque/pigmented PET #1 bottles, jugs, and jugs. Examples include non-transparent bottled beverages, salad dressing, food sauce, and some household cleaning products. Also includes jars or canisters, such as for peanut butter, that are blow molded or injection blow molded. Caps/lids left on if attached.

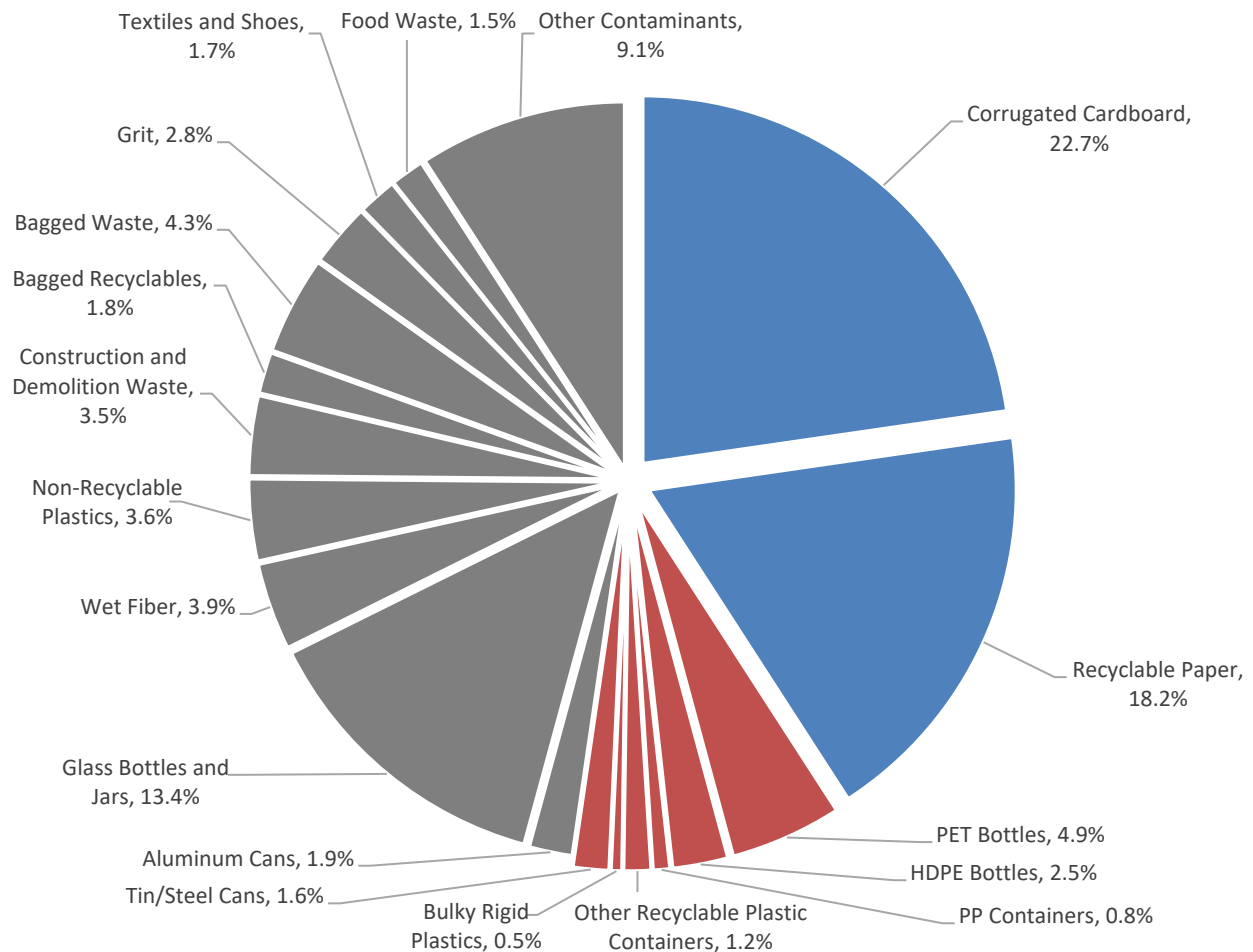
#	Material Categories	Program Recyclable	Description of Categories
11	PET Clamshells (#1)	Yes	Clamshell-style to-go containers made from PET #1 of any color.
12	PET Drink Cups (#1)	Yes	Plastic single-use drinking cups made from PET #1 of any color.
13	Other PET Non-Bottle Rigid - Clear (#1)	Yes	Other clear or translucent plastic single-use rigid containers that do not fit in other PET categories above, such as tubs, non-drinking cups, fruit or vegetable platters and frozen food trays, made of PET #1.
14	Other PET Non-Bottle Rigid - Opaque/Pigmented (#1)	Yes	Other opaque/pigmented plastic single-use rigid containers that do not fit in other PET categories above, such as tubs, non-drinking cups, fruit or vegetable platters and frozen food trays, that are not transparent and are made of PET #1.
15	Natural HDPE Bottles (#2)	Yes	Clear/natural plastic bottles coded high-density polyethylene (HDPE #2). Examples include milk jugs, vinegar bottles, and gallon water bottles. <i>Does not include loose caps and lids.</i>
16	Colored HDPE Bottles (#2)	Yes	Opaque, pigmented plastic bottles coded HDPE #2. Examples include detergent and shampoo bottles. <i>Does not include loose caps and lids.</i>
17	Non-Bottle HDPE Containers (#2)	Yes	Wide-mouthed tubs and containers coded HDPE #2. Examples include large plastic coffee containers and plastic chip tubes, including lids.
18	PP Bottles, Jars, Jugs (#5)	Yes	Polypropylene (PP #5) screw top bottles such as tea and juice beverages, syrup bottles, shampoo/personal care product, prescription bottles and storage bottles or jars of any color. Caps/lids left on if attached.
19	PP Clamshells (#5)	Yes	Clamshell-style to-go containers made from PP #5.
20	PP Tub (#5)	Yes	Clear round or squarish tubs made from PP #5, such as to-go soup containers.
21	PP Drink Cups (#5)	Yes	Plastic single-use drinking cups made from PP #5.
22	Other PP Non-Bottle Rigid (#5)	Yes	Plastic single-use rigid containers that do not fit in other PP categories above made of PP #5.
23	Other Plastic Drink Cups (#3, #4, #6, #7)	Yes	Plastic single-use drinking cups that do not fit in other categories above. Examples include polystyrene (not foam) drinking cups.
24	Other Small Rigid Packaging Containers (#3, #4, #6, #7)	Yes	All single resin plastic containers coded #3, #4, #6, or #7 that do not fit in any categories above.
25	Expanded Polystyrene Foam	No	Food service polystyrene, polystyrene packaging, and packaging “peanuts.” Any expanded foam product labeled #6.
26	Plastic Bags and Clean Film	No	Plastic grocery “t-shirt” and retail bags; bread and produce bags; newspaper bags (Trash Only); napkin, towel, tissue, diaper overwrap; bottled water case wrap; dry cleaner film bags; case and stretch wrap; and clean food storage (Ziploc®) bags. Outer mail pouch made from plastic, air cushion pillows, and bubble wrap.

#	Material Categories	Program Recyclable	Description of Categories
27	Plastic Garbage Bags	No	Plastic garbage bags, including single-use shopping bags reused as garbage bags.
28	Other Plastic Film/Flexibles	No	All other film packaging, including multi-layer and opaque food packaging such as chip bags, candy bar wrappers, prewashed salad bags, frozen food bags, pet food bags, landscaping bags and all other film items. Includes plastic wrap and dirty Ziploc® bags. Flexible packaging in a stand-up pouch format, including resealable stand-up pouches and those with a rigid plastic closure (typically opaque, may have a silver inner lining). Examples include baby food or pet food pouches, juice pouches, applesauce pouches, soap/detergent refills, stand up resealable packaging for granola, snacks, sugar, etc. Plastic squeeze tubes with a semi-flexible body (i.e., shampoo, crushed garlic).
29	Bulky Rigid Plastics	Yes	Non-container rigid plastic items such as clothes hangers, plastic drums, crates, buckets, baskets, toys, refuse totes, lawn furniture, flowerpots, laundry baskets, and other large plastic items. <i>Does not include electronic or electric toys, or bulky items consisting of mixed material.</i>
30	Unacceptable Rigid Plastics	No	All other rigid plastics not categorized elsewhere. Examples include loose caps/lids (less than 2" in diameter), and predominately plastic with other materials attached such as disposable razors, pens, lighters, fast food lids and straws, toothbrushes, plastic cutlery, and 3-ring binders.
31	Tin/Steel Cans	Yes	Tin-plated steel cans, usually food containers, including labels. Includes steel caps. <i>Does not include paint cans. Includes empty aerosol cans.</i>
32	Aluminum Cans	Yes	Aluminum soft drink, beer, and food cans. <i>Includes empty aerosol cans.</i>
33	Aluminum Foil and Trays	No	Aluminum foil and food trays, such as disposable pie plates and catering trays.
34	Scrap Metals	No	All ferrous/magnetic and nonferrous/non-magnetic metal products such as wire hangers and metal scrap such as window frames and cookware, including stainless steel, empty and punctured tanks for liquid and gaseous fuels, oil filters, metal car parts, and all other items containing a mixture of metals, or metals and other materials, whose weight is derived significantly from the metal portion of its construction.
35	Glass Bottles and Jars	Yes	Any color soda, liquor, wine, juice, beer, and food bottles, jars, and containers, as well as broken container glass pieces ½" or greater in size (Recycling only).
36	Unacceptable Glass, Ceramics, and Porcelain	No	Window glass, light bulbs (except fluorescent tubes), mirrors, and glassware. Also includes finished ceramic or porcelain products such as dishware, toilets, etc.
37	Food Waste	No	All loose or containerized food waste.
38	Yard Waste	No	Shrub and brush prunings, household bedding plants, weeds, leaves, grass clippings, and other landscaping and gardening wastes. Includes planting media (soil, compost, peat moss, etc.).
39	Textiles and Shoes	No	Clothing, rags, and accessories made of natural and synthetic textiles such as cotton, wool, silk, woven nylon, rayon, polyester, leather, and other materials. Examples include pants, shirts, fabric purses, bed sheets, towels, and shoes. Includes carpet and carpet padding.
40	Construction and Demolition	No	Dimensional lumber, pallets/crates, treated/contaminated wood, gypsum, insulation, rock/concrete/bricks, asphalt shingles/roofing, other construction

#	Material Categories	Program Recyclable	Description of Categories
	Waste		debris, and mixed fine building material scraps.
41	Hazardous / Special Waste	No	Paints and solvents, glues, and adhesives, caulking compounds and grouts, hazardous cleaners and household chemicals, pesticides/herbicides, oil/gas/fuel tanks, fluorescent tubes, and any substances or products containing potentially hazardous chemicals. Also includes non-hazardous soaps, cleaners, medicines, cosmetics, fire extinguishers, and other household chemicals.
42	Batteries	No	All small household batteries including single-use alkaline, lithium, button cell, or coin cell batteries and rechargeable Ni-MH, Ni-Cd, and lithium-ion batteries.
43	Sharps	No	All syringes or other kinds of injection devices.
44	E-Waste & Small Appliances	No	Electronics and household appliances primarily composed of mixed materials (plastic, metal, and glass), such as coffee makers, microwaves, fans, irons, hair dryers, electrical kitchen ware, and salvageable items such as machinery.
45	Bulky Items	No	Includes items like furniture, tires, or other large materials that do not fit in other categories above.
46	Tanglers (Recycling Only)	No	Any materials that could potentially be tanglers during processing, such as hoses, extension cords, and Christmas lights.
47	Bagged Recyclables (Recycling Only)	No	Any bagged material with less than 20% non-recyclables.
48	Bagged Waste (Recycling Only)	No	Any bagged material with more than 20% non-recyclables or heavily contaminated recyclables. <i>Does not include clean, bagged recyclables.</i>
49	Disposable Diapers	No	Disposable baby diapers and adult protective undergarments.
50	Other Contaminants (Recycling) / All Other Garbage (Trash)	No	Materials not included in the other categories, including composite materials, interlocked products that cannot be separated, pet waste, full containers of liquids (more than 25% full) (Recycling Only) , and film-wrapped paper (Recycling Only) .
51	Liquids	No	All liquids in containers (Trash Only) . Liquids in containers less than 25% full (Recycling Only) . Note: Liquids in Recycling are not included in the composition because these liquids are assumed to be lost during processing and baling.
52	Grit	No	Any materials that fall through the ½" screen.

ATTACHMENT B: DETAILED RESIDENTIAL COMPOSITION RESULTS

Figure B-1: Recycling Composition – Citywide Residential (percent by weight)



For the purposes of this figure, the following categories have been combined:

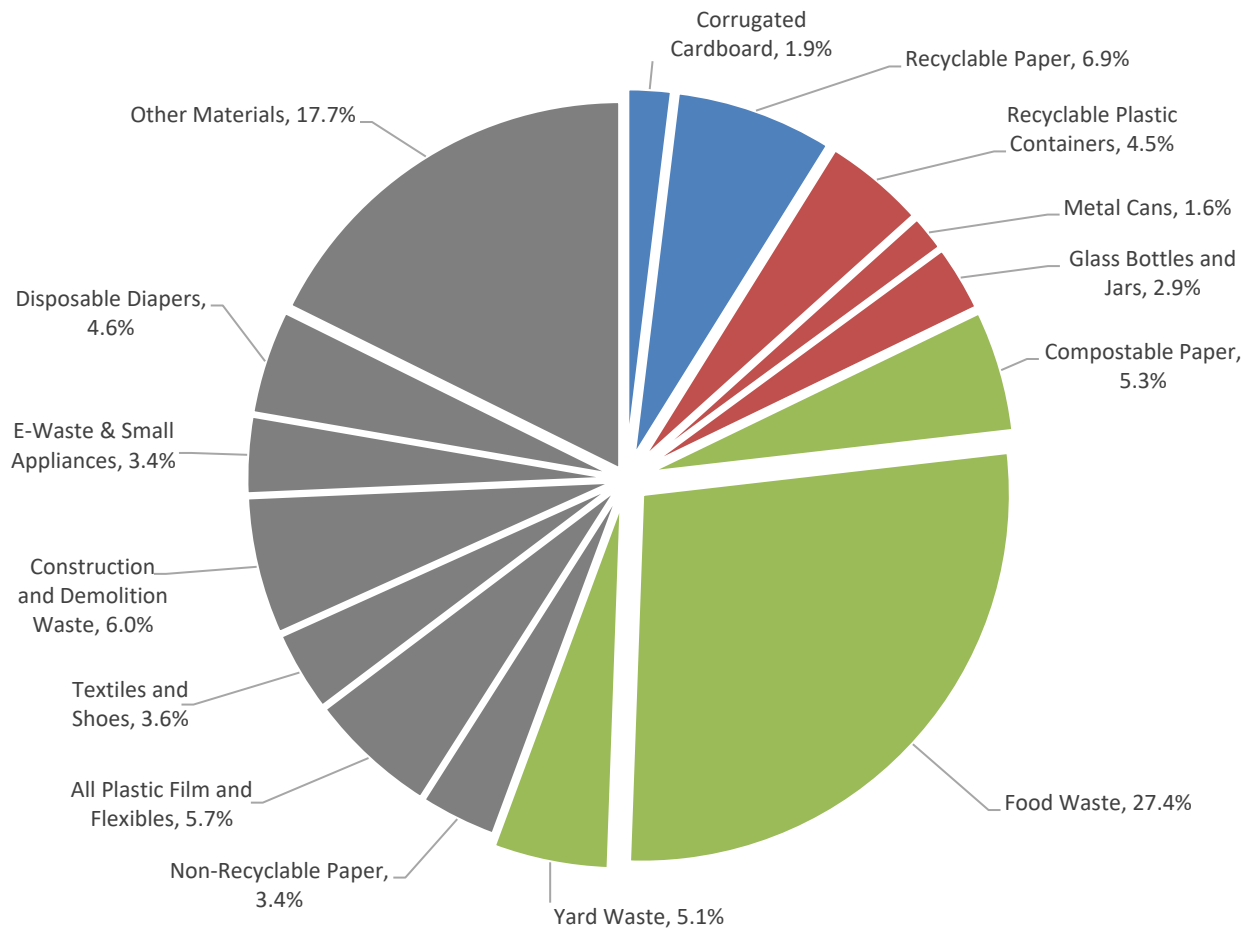
- Recyclable Paper includes the categories of Newspapers, Magazines, and Catalogs and Mixed Paper.
- PET Bottles includes the categories of PET Bottles, Jugs, Jars – Clear (#1) and PET Bottles, Jugs, Jars - Opaque/ Pigmented (#1).
- HDPE Bottles includes the categories of Natural HDPE Bottles (#2) and Colored HDPE Bottles (#2).
- PP Containers includes the categories of PP Bottles, Jars, Jugs (#5), PP Clamshells (#5), PP Tubs (#5), PP Drink Cups (#5), and Other PP Non-bottle Rigid (#5).
- Other Recyclable Plastic Containers includes the categories of PET Clamshells (#1), PET Drink Cups (#1), Other PET Non-bottle Rigid - Clear (#1), Other PET Non-bottle Rigid - Opaque/ Pigmented (#1), Non-bottle HDPE Containers (#2), Other Plastic Drink Cups (#3, #4, #6, #7), and Other Small Rigid Packaging Containers (#3, #4, #6, #7).
- Wet Fiber includes the categories of Wet Cardboard and Wet Paper.
- Non-Recyclable Plastics includes the categories of Expanded Polystyrene Foam, Plastic Bags and Clean Film, Plastic Garbage Bags, Other Plastic Film/Flexibles, Bulky Rigid Plastics, and Unacceptable Rigid Plastics.
- Other Contaminants includes the categories of Aseptic Boxes and Gable Top Cartons, Compostable Paper, Non-recyclable Paper, Aluminum Foil and Trays, Scrap Metals, Unacceptable Glass, Ceramics, and Porcelain, Food Waste, Yard Waste, Hazardous / Special Waste, Batteries, Sharps, E-waste & Small Appliances, Bulky Items, Tangles, Disposable Diapers, and Other Contaminants

Table B-1: Residential Recycling Composition (percent by weight)

Material Category	Monday	Tuesday	Thursday	Friday	Citywide Resi	90% Confidence Interval	
						Lower Bounds	Upper Bounds
Corrugated Cardboard	27.5%	21.7%	17.9%	23.5%	22.7%	19.3%	26.2%
Newspapers, Magazines, and Catalogs	6.2%	4.1%	5.7%	5.6%	5.4%	4.2%	6.6%
Mixed Paper	16.5%	9.8%	11.6%	13.2%	12.8%	10.8%	14.7%
Program Recyclable Fiber	50.3%	35.7%	35.2%	42.2%	40.9%	36.2%	45.5%
PET Bottles, Jugs, Jars – Clear (#1)	4.6%	4.4%	5.1%	5.0%	4.7%	4.3%	5.2%
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.2%	0.2%	0.1%	0.2%	0.2%	0.1%	0.2%
PET Clamshells (#1)	0.9%	0.3%	0.8%	0.3%	0.6%	0.4%	0.8%
PET Drink Cups (#1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PET Non-bottle Rigid - Clear (#1)	0.1%	0.5%	0.2%	0.3%	0.3%	0.2%	0.4%
Other PET Non-bottle Rigid – Op./ Pig. (#1)	0.0%	0.3%	0.0%	0.1%	0.1%	0.0%	0.2%
Natural HDPE Bottles (#2)	1.2%	1.5%	0.7%	1.5%	1.2%	1.0%	1.5%
Colored HDPE Bottles (#2)	1.3%	0.7%	1.2%	1.7%	1.2%	0.9%	1.5%
Non-bottle HDPE Containers (#2)	0.3%	0.1%	0.0%	0.1%	0.1%	0.1%	0.2%
PP Bottles, Jars, Jugs (#5)	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%
PP Clamshells (#5)	0.0%	0.0%	0.2%	0.2%	0.1%	0.0%	0.2%
PP Tubs (#5)	0.3%	0.3%	0.4%	0.5%	0.4%	0.3%	0.5%
PP Drink Cups (#5)	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%	0.2%
Other PP Non-bottle Rigid (#5)	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%	0.1%
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%
Bulky Rigid Plastics	1.3%	0.1%	0.1%	0.5%	0.5%	0.2%	0.8%
Tin/Steel Cans	1.7%	1.6%	1.7%	1.3%	1.6%	1.4%	1.8%
Aluminum Cans	1.3%	2.3%	2.0%	2.2%	1.9%	1.6%	2.2%
Glass Bottles and Jars	12.1%	12.1%	19.3%	10.4%	13.4%	11.0%	15.9%
Program Recyclable Containers	25.6%	24.7%	32.2%	24.8%	26.8%	24.0%	29.6%
Wet Cardboard	0.9%	1.3%	1.9%	1.4%	1.4%	0.9%	1.8%
Wet Paper	0.6%	2.5%	4.9%	2.1%	2.5%	1.6%	3.4%
Aseptic Boxes and Gable Top Cartons	0.5%	0.4%	0.7%	0.6%	0.6%	0.5%	0.7%
Compostable Paper	0.2%	0.8%	0.7%	0.8%	0.6%	0.4%	0.8%
Non-recyclable Paper	0.4%	0.6%	0.7%	0.4%	0.5%	0.4%	0.6%
Expanded Polystyrene Foam	0.2%	0.2%	0.2%	0.3%	0.2%	0.2%	0.3%
Plastic Bags and Clean Film	0.5%	0.5%	0.6%	1.7%	0.8%	0.5%	1.1%
Plastic Garbage Bags	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastic Film/Flexibles	1.2%	0.9%	0.9%	1.0%	1.0%	0.8%	1.2%
Unacceptable Rigid Plastics	1.6%	1.7%	1.5%	1.5%	1.6%	1.3%	1.8%
Aluminum Foil and Trays	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%
Scrap Metals	0.3%	0.3%	0.4%	0.8%	0.4%	0.2%	0.6%
Unacceptable Glass, Ceramics, and Porcelain	0.1%	0.0%	0.4%	0.1%	0.2%	0.0%	0.3%
Food Waste	0.2%	2.1%	2.2%	1.5%	1.5%	0.8%	2.2%
Yard Waste	0.2%	0.8%	0.0%	2.8%	0.9%	-0.2%	2.1%
Textiles and Shoes	1.4%	2.4%	1.1%	1.9%	1.7%	1.2%	2.2%
Construction and Demolition Waste	2.0%	9.7%	1.7%	0.3%	3.5%	0.9%	6.1%
Hazardous/Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Batteries	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
E-waste & Small Appliances	4.7%	0.1%	0.0%	1.5%	1.6%	0.0%	3.2%
Bulky Items	0.0%	0.0%	0.8%	0.0%	0.2%	-0.1%	0.5%
Tanglers	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%
Bagged Recyclables	1.6%	3.2%	1.6%	0.9%	1.8%	1.0%	2.7%
Bagged Waste	1.3%	4.4%	3.5%	8.3%	4.3%	2.2%	6.5%
Disposable Diapers	0.2%	0.6%	0.6%	0.6%	0.5%	0.2%	0.8%
Other Contaminants	2.4%	3.9%	5.3%	2.4%	3.5%	2.5%	4.6%
Grit	3.5%	2.9%	2.8%	1.9%	2.8%	2.0%	3.5%
Contaminants	24.1%	39.6%	32.5%	33.0%	32.3%	27.4%	37.3%
Total	100.0%	100.0%	100.0%	100.0%	100.0%		

Note: Columns may not appear to correctly sum due to rounding.

Figure B-2: Trash Composition – Citywide Residential (percent by weight)



For the purposes of this figure, the following categories have been combined:

- Recyclable Paper includes the categories of Newspapers, Magazines, and Catalogs and Mixed Paper.
- Recyclable Plastic Containers includes the categories of PET Bottles, Jugs, Jars – Clear (#1), PET Bottles, Jugs, Jars - Opaque/ Pigmented (#1), Natural HDPE Bottles (#2), Colored HDPE Bottles (#2), PP Bottles, Jugs, Jugs (#5), PP Clamshells (#5), PP Tubs (#5), PP Drink Cups (#5), Other PP Non-bottle Rigids (#5), PET Clamshells (#1), PET Drink Cups (#1), Other PET Non-bottle Rigids - Clear (#1), Other PET Non-bottle Rigids - Opaque/ Pigmented (#1), Non-bottle HDPE Containers (#2), Other Plastic Drink Cups (#3, #4, #6, #7), and Other Small Rigid Packaging Containers (#3, #4, #6, #7).
- Metal Cans includes the categories of Tin/Steel Cans and Aluminum Cans.
- All Plastic Film and Flexibles includes the categories of Plastic Bags and Clean Film, Plastic Garbage Bags, and Other Plastic Film/Flexibles.
- Other Materials includes the categories of Aseptic Boxes and Gable Top Cartons, Expanded Polystyrene Foam, Unacceptable Rigid Plastics, Aluminum Foil and Trays, Scrap Metals, Unacceptable Glass, Ceramics, and Porcelain, Hazardous/Special Waste, Batteries, Sharps, Bulky Items, All Other Garbage, Liquids, and Grit.

Table B-2: Residential Trash Composition (percent by weight)

Material Category	Monday	Tuesday	Thursday	Friday	Citywide Resi	90% Confidence Interval	
						Lower Bounds	Upper Bounds
Corrugated Cardboard	2.8%	1.7%	1.0%	2.2%	1.9%	1.5%	2.4%
Newspapers, Magazines, and Catalogs	1.5%	1.3%	1.5%	0.6%	1.2%	0.7%	1.7%
Mixed Paper	5.8%	5.7%	5.1%	6.2%	5.7%	4.9%	6.5%
Program Recyclable Fiber	10.1%	8.7%	7.6%	9.0%	8.9%	7.4%	10.3%
PET Bottles, Jugs, Jars – Clear (#1)	1.3%	2.1%	1.1%	1.9%	1.6%	1.3%	2.0%
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.2%	0.1%	0.0%	0.1%	0.1%	0.0%	0.2%
PET Clamshells (#1)	0.2%	0.2%	0.2%	0.2%	0.2%	0.1%	0.3%
PET Drink Cups (#1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PET Non-bottle Rigids - Clear (#1)	0.2%	0.3%	0.2%	0.4%	0.3%	0.2%	0.3%
Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%
Natural HDPE Bottles (#2)	0.2%	0.3%	0.2%	0.2%	0.2%	0.2%	0.3%
Colored HDPE Bottles (#2)	0.5%	0.3%	0.2%	0.4%	0.3%	0.2%	0.4%
Non-bottle HDPE Containers (#2)	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
PP Bottles, Jars, Jugs (#5)	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%	0.1%
PP Clamshells (#5)	0.1%	0.0%	0.1%	0.2%	0.1%	0.1%	0.1%
PP Tubs (#5)	0.4%	0.4%	0.4%	1.1%	0.6%	0.4%	0.7%
PP Drink Cups (#5)	0.1%	0.1%	0.2%	0.2%	0.2%	0.1%	0.2%
Other PP Non-bottle Rigids (#5)	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%	0.3%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%
Bulky Rigid Plastics	0.6%	0.0%	0.2%	0.5%	0.3%	0.1%	0.5%
Tin/Steel Cans	0.9%	1.2%	1.0%	0.9%	1.0%	0.8%	1.2%
Aluminum Cans	0.5%	0.6%	0.7%	0.6%	0.6%	0.5%	0.7%
Glass Bottles and Jars	2.4%	3.1%	2.5%	3.5%	2.9%	2.3%	3.5%
Program Recyclable Containers	8.2%	9.5%	7.5%	10.5%	9.0%	8.0%	9.9%
Compostable Paper	5.3%	4.8%	4.3%	6.9%	5.3%	4.4%	6.3%
Food Waste	26.9%	26.2%	28.6%	28.1%	27.4%	24.6%	30.2%
Yard Waste	2.3%	5.1%	12.3%	1.1%	5.1%	2.2%	7.9%
Potentially Compostable Materials	34.4%	36.0%	45.3%	36.2%	37.8%	35.2%	40.4%
Aseptic Boxes and Gable Top Cartons	0.3%	0.3%	0.1%	0.3%	0.2%	0.2%	0.3%
Non-Recyclable Paper	4.7%	3.3%	2.5%	3.0%	3.4%	2.4%	4.3%
Expanded Polystyrene Foam	0.4%	0.8%	0.6%	0.9%	0.7%	0.5%	0.8%
Plastic Bags and Clean Film	0.4%	0.6%	0.4%	0.4%	0.5%	0.4%	0.6%
Plastic Garbage Bags	2.1%	2.2%	2.4%	3.2%	2.5%	2.2%	2.8%
Other Plastic Film/Flexibles	2.9%	2.3%	2.4%	3.5%	2.8%	2.5%	3.1%
Unacceptable Rigid Plastics	2.4%	1.8%	1.3%	1.9%	1.8%	1.4%	2.3%
Aluminum Foil and Trays	0.3%	0.4%	0.2%	0.2%	0.3%	0.2%	0.4%
Scrap Metals	1.9%	1.0%	1.0%	1.1%	1.3%	0.6%	1.9%
Unacceptable Glass, Ceramics, and Porcelain	0.5%	0.6%	0.1%	0.1%	0.3%	0.2%	0.5%
Textiles and Shoes	4.7%	3.8%	2.5%	3.1%	3.6%	3.0%	4.1%
Construction and Demolition Waste	2.7%	5.4%	8.4%	7.9%	6.0%	3.8%	8.3%
Hazardous / Special Waste	0.0%	0.0%	0.3%	0.0%	0.1%	0.0%	0.2%
Batteries	0.2%	0.2%	1.2%	0.0%	0.4%	-0.1%	0.9%
Sharps	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%	0.2%
E-Waste & Small Appliances	2.8%	8.6%	1.3%	0.4%	3.4%	0.8%	6.0%
Bulky Items	0.0%	0.0%	2.5%	0.0%	0.6%	-0.1%	1.3%
Disposable Diapers	5.9%	3.8%	4.6%	4.1%	4.6%	3.3%	5.9%
All Other Garbage	13.4%	8.8%	6.5%	12.6%	10.3%	8.2%	12.4%
Liquids	1.0%	1.2%	1.2%	1.6%	1.3%	0.9%	1.7%
Grit	0.8%	0.6%	0.0%	0.0%	0.3%	0.0%	0.7%
All Other Materials	47.2%	45.8%	39.6%	44.4%	44.4%	41.3%	47.4%
Total	100.0%	100.0%	100.0%	100.0%	100.0%		

Note: Columns may not appear to correctly sum due to rounding.

ATTACHMENT C: INDIVIDUAL SAMPLE RESULTS (PERCENT)

Table C-1: Recycling Samples (percent by weight)

Load Information		Resi: Fri, Route #4, Truck #4458	Resi: Fri, Route #5, Truck #4459	Resi: Fri, Route #2, Truck #RDK	Resi: Fri, Route #1, Truck #4162	Resi: Fri, Route #6, Truck #4460	Resi: Mon, Route #3, Truck #4322
Material Categories	sample #	2	3	4	5	6	8
1	Corrugated Cardboard	38.6%	17.3%	24.9%	24.5%	14.1%	10.4%
2	Wet Cardboard	3.0%	0.5%	0.0%	0.0%	3.6%	2.1%
3	Newspapers, Magazines, and Catalogs	5.6%	7.3%	9.2%	5.7%	0.5%	6.4%
4	Mixed Paper	12.0%	20.9%	13.7%	13.8%	5.4%	20.7%
5	Wet Paper	1.1%	3.5%	1.6%	0.0%	4.5%	1.1%
6	Aseptic Boxes and Gable Top Cartons	0.4%	0.9%	0.7%	0.7%	0.3%	0.5%
7	Compostable Paper	1.6%	1.1%	0.5%	0.3%	0.5%	0.2%
8	Non-recyclable Paper	0.2%	0.3%	0.6%	0.3%	0.6%	0.2%
9	PET Bottles, Jugs, Jars – Clear (#1)	4.0%	3.8%	7.5%	5.9%	3.9%	5.8%
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.1%	0.1%	0.5%	0.3%	0.1%	0.1%
11	PET Clamshells (#1)	0.2%	0.3%	0.9%	0.0%	0.2%	0.2%
12	PET Drink Cups (#1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13	Other PET Non-bottle Rigids - Clear (#1)	0.0%	0.1%	0.7%	0.4%	0.2%	0.0%
14	Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.0%	0.3%	0.0%	0.1%	0.0%	0.0%
15	Natural HDPE Bottles (#2)	2.0%	2.3%	1.8%	0.9%	0.8%	1.3%
16	Colored HDPE Bottles (#2)	0.9%	1.3%	2.9%	1.7%	1.7%	1.1%
17	Non-bottle HDPE Containers (#2)	0.2%	0.2%	0.1%	0.1%	0.0%	0.3%
18	PP Bottles, Jars, Jugs (#5)	0.0%	0.1%	0.5%	0.0%	0.0%	0.1%
19	PP Clamshells (#5)	0.0%	0.0%	0.1%	0.5%	0.1%	0.1%
20	PP Tubs (#5)	0.3%	0.5%	0.4%	1.1%	0.1%	0.2%
21	PP Drink Cups (#5)	0.0%	0.2%	0.3%	0.3%	0.1%	0.1%
22	Other PP Non-bottle Rigids (#5)	0.0%	0.1%	0.2%	0.0%	0.2%	0.0%
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.1%	0.2%	0.0%	0.0%	0.2%
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
25	Expanded Polystyrene Foam	0.2%	0.1%	0.5%	0.1%	0.5%	0.1%
26	Plastic Bags and Clean Film	1.0%	1.4%	0.7%	3.9%	1.0%	0.4%
27	Plastic Garbage Bags	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28	Other Plastic Film/Flexibles	1.0%	0.3%	1.0%	0.7%	2.2%	0.9%
29	Bulky Rigid Plastics	1.0%	0.0%	0.4%	0.0%	1.5%	0.0%
30	Unacceptable Rigid Plastics	2.4%	1.3%	1.0%	1.2%	1.7%	0.9%
31	Tin/Steel Cans	0.8%	1.5%	1.9%	1.6%	0.7%	2.5%
32	Aluminum Cans	2.8%	2.2%	2.0%	2.1%	1.9%	1.9%
33	Aluminum Foil and Trays	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%
34	Scrap Metals	0.2%	0.6%	2.1%	0.7%	0.5%	0.8%
35	Glass Bottles and Jars	7.2%	9.7%	17.6%	11.5%	6.8%	17.3%
36	Unacceptable Glass, Ceramics, and Porcelain	0.2%	0.0%	0.0%	0.0%	0.1%	1.0%
37	Food Waste	1.5%	1.4%	0.2%	0.0%	4.3%	0.1%
38	Yard Waste	0.0%	0.1%	0.0%	0.0%	13.4%	0.0%
39	Textiles and Shoes	1.2%	2.8%	1.4%	0.9%	3.4%	0.1%
40	Construction and Demolition Waste	0.0%	0.0%	0.0%	0.0%	1.6%	10.1%
41	Hazardous / Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
42	Batteries	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
43	Sharps	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
44	E-waste & Small Appliances	3.8%	2.2%	0.0%	1.5%	0.0%	0.0%
45	Bulky Items	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
46	Tanglers	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%
47	Bagged Recyclables	0.3%	3.8%	0.3%	0.0%	0.0%	1.7%
48	Bagged Waste	1.5%	5.9%	0.5%	18.1%	12.5%	0.0%
49	Disposable Diapers	1.8%	0.0%	0.0%	0.0%	1.4%	1.4%
50	Other Contaminants	1.5%	3.5%	1.4%	0.4%	5.0%	6.6%
52	Grit	1.1%	2.2%	1.1%	0.5%	4.6%	3.0%
	Totals	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	Load Weights (tons)	3.39	3.89	3.30	4.23	3.88	2.60

Note: Columns may not appear to correctly sum due to rounding.

Table C-1: Recycling Samples (percent by weight) – Continued

Load Information		Resi: Mon, Route #2, Truck #RDK	Resi: Mon, Route #6, Truck #4460	Resi: Mon, Route #4, Truck #4458	Resi: Mon, Route #1, Truck #4162	Resi: Tue, Route #3, Truck #4322	Resi: Tue, Route #4, Truck #4458
Material Categories	sample #	9	10	11	12	13	14
1	Corrugated Cardboard	15.5%	34.9%	32.9%	38.3%	20.9%	26.9%
2	Wet Cardboard	0.0%	2.0%	0.0%	0.4%	1.2%	0.6%
3	Newspapers, Magazines, and Catalogs	8.9%	4.8%	6.4%	4.9%	11.5%	2.1%
4	Mixed Paper	22.4%	10.9%	18.4%	13.1%	12.7%	11.2%
5	Wet Paper	0.3%	0.3%	0.0%	1.2%	2.6%	0.2%
6	Aseptic Boxes and Gable Top Cartons	0.6%	0.3%	0.6%	0.5%	0.2%	0.5%
7	Compostable Paper	0.2%	0.2%	0.3%	0.1%	0.5%	0.1%
8	Non-recyclable Paper	0.2%	0.5%	0.5%	0.4%	0.2%	0.2%
9	PET Bottles, Jugs, Jars – Clear (#1)	4.0%	4.4%	6.7%	3.0%	5.0%	3.1%
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.1%	0.3%	0.5%	0.1%	0.3%	0.0%
11	PET Clamshells (#1)	1.0%	1.3%	1.2%	0.9%	0.4%	0.7%
12	PET Drink Cups (#1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13	Other PET Non-bottle Rigid - Clear (#1)	0.0%	0.0%	0.5%	0.0%	0.5%	0.3%
14	Other PET Non-bottle Rigid – Op./ Pig. (#1)	0.1%	0.0%	0.0%	0.1%	0.1%	0.2%
15	Natural HDPE Bottles (#2)	0.8%	1.4%	0.9%	1.7%	1.5%	0.9%
16	Colored HDPE Bottles (#2)	0.7%	1.8%	2.5%	0.5%	0.7%	1.4%
17	Non-bottle HDPE Containers (#2)	0.2%	0.4%	0.6%	0.0%	0.0%	0.2%
18	PP Bottles, Jars, Jugs (#5)	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
19	PP Clamshells (#5)	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
20	PP Tubs (#5)	0.4%	0.2%	0.4%	0.2%	0.4%	0.2%
21	PP Drink Cups (#5)	0.0%	0.1%	0.2%	0.1%	0.2%	0.2%
22	Other PP Non-bottle Rigid (#5)	0.1%	0.2%	0.0%	0.1%	0.1%	0.0%
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
25	Expanded Polystyrene Foam	0.2%	0.3%	0.4%	0.2%	0.1%	0.1%
26	Plastic Bags and Clean Film	0.5%	0.3%	1.3%	0.1%	0.5%	0.8%
27	Plastic Garbage Bags	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28	Other Plastic Film/Flexibles	0.4%	2.4%	0.7%	1.0%	0.9%	0.6%
29	Bulky Rigid Plastics	3.1%	1.0%	0.8%	1.0%	0.0%	0.0%
30	Unacceptable Rigid Plastics	2.0%	1.5%	2.4%	1.0%	2.6%	2.2%
31	Tin/Steel Cans	1.5%	1.9%	2.0%	1.1%	1.6%	1.8%
32	Aluminum Cans	1.2%	0.7%	1.3%	1.5%	1.6%	1.6%
33	Aluminum Foil and Trays	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%
34	Scrap Metals	0.1%	0.0%	0.2%	0.6%	0.0%	0.5%
35	Glass Bottles and Jars	20.3%	2.3%	5.4%	16.2%	12.3%	11.2%
36	Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
37	Food Waste	0.0%	0.2%	0.5%	0.2%	3.1%	0.4%
38	Yard Waste	0.6%	0.0%	0.3%	0.0%	0.6%	0.1%
39	Textiles and Shoes	0.5%	3.6%	1.3%	0.9%	4.8%	2.1%
40	Construction and Demolition Waste	1.0%	1.4%	0.0%	0.0%	0.0%	23.6%
41	Hazardous / Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
42	Batteries	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
43	Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	E-waste & Small Appliances	0.7%	18.2%	0.0%	0.1%	0.0%	0.1%
45	Bulky Items	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
46	Tanglers	0.0%	0.0%	0.1%	0.2%	0.2%	0.0%
47	Bagged Recyclables	5.7%	0.0%	0.5%	0.0%	2.6%	0.0%
48	Bagged Waste	1.8%	0.0%	5.5%	0.1%	6.9%	0.0%
49	Disposable Diapers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
50	Other Contaminants	1.2%	0.7%	2.8%	2.3%	2.2%	1.0%
52	Grit	3.5%	1.4%	1.9%	7.5%	0.7%	5.1%
	Totals	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	Load Weights (tons)	3.86	4.43	2.82	4.02	2.87	3.32

Note: Columns may not appear to correctly sum due to rounding.

Table C-1: Recycling Samples (percent by weight) – Continued

Load Information		Resi: Tue, Route #2, Truck #RDK	Resi: Tue, Route #5, Truck #4323	Resi: Tue, Route #1, Truck #4162	Resi: Thu, Route #1, Truck #4162	Resi: Thu, Route #5, Truck #4320	Resi: Thu, Route #3, Truck #4322
Material Categories	sample #	16	17	18	22	23	24
1	Corrugated Cardboard	14.4%	20.4%	27.4%	13.8%	11.6%	30.3%
2	Wet Cardboard	3.4%	0.1%	1.0%	1.0%	3.1%	1.1%
3	Newspapers, Magazines, and Catalogs	2.2%	4.6%	1.7%	10.0%	2.6%	9.1%
4	Mixed Paper	5.1%	10.9%	10.4%	11.0%	7.6%	18.1%
5	Wet Paper	3.5%	0.3%	5.9%	5.6%	5.0%	6.8%
6	Aseptic Boxes and Gable Top Cartons	0.4%	0.5%	0.4%	0.5%	0.4%	0.6%
7	Compostable Paper	1.7%	0.5%	1.1%	0.8%	0.6%	0.4%
8	Non-recyclable Paper	1.2%	0.4%	0.7%	0.2%	1.0%	0.8%
9	PET Bottles, Jugs, Jars – Clear (#1)	4.7%	5.9%	2.9%	6.3%	5.3%	4.3%
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.1%	0.2%	0.2%	0.2%	0.2%	0.1%
11	PET Clamshells (#1)	0.0%	0.3%	0.3%	1.0%	0.9%	1.2%
12	PET Drink Cups (#1)	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
13	Other PET Non-bottle Rigid - Clear (#1)	0.7%	0.3%	0.6%	0.2%	0.0%	0.4%
14	Other PET Non-bottle Rigid – Op./ Pig. (#1)	0.0%	0.1%	1.1%	0.0%	0.0%	0.0%
15	Natural HDPE Bottles (#2)	0.8%	1.3%	2.8%	0.6%	0.8%	0.9%
16	Colored HDPE Bottles (#2)	0.4%	1.2%	0.0%	1.3%	1.4%	0.8%
17	Non-bottle HDPE Containers (#2)	0.1%	0.1%	0.0%	0.2%	0.0%	0.1%
18	PP Bottles, Jars, Jugs (#5)	0.0%	0.1%	0.1%	0.1%	0.2%	0.0%
19	PP Clamshells (#5)	0.0%	0.1%	0.0%	0.2%	0.1%	0.1%
20	PP Tubs (#5)	0.2%	0.3%	0.7%	0.9%	0.4%	0.4%
21	PP Drink Cups (#5)	0.3%	0.0%	0.1%	0.1%	0.2%	0.1%
22	Other PP Non-bottle Rigid (#5)	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.2%	0.2%	0.0%	0.1%	0.0%	0.0%
25	Expanded Polystyrene Foam	0.5%	0.2%	0.2%	0.1%	0.2%	0.3%
26	Plastic Bags and Clean Film	0.6%	0.5%	0.2%	0.3%	0.5%	1.0%
27	Plastic Garbage Bags	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28	Other Plastic Film/Flexibles	1.7%	0.3%	1.0%	1.4%	1.6%	0.5%
29	Bulky Rigid Plastics	0.0%	0.0%	0.3%	0.0%	0.4%	0.0%
30	Unacceptable Rigid Plastics	1.9%	1.2%	0.9%	1.7%	1.0%	0.9%
31	Tin/Steel Cans	1.3%	1.8%	1.4%	2.0%	2.3%	1.7%
32	Aluminum Cans	1.8%	3.7%	2.3%	2.5%	2.7%	1.5%
33	Aluminum Foil and Trays	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%
34	Scrap Metals	0.6%	0.3%	0.0%	1.3%	0.6%	0.0%
35	Glass Bottles and Jars	11.4%	13.2%	12.3%	29.4%	21.0%	12.0%
36	Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.1%	0.0%	0.4%	1.1%	0.3%
37	Food Waste	3.5%	0.0%	3.9%	0.9%	5.6%	0.5%
38	Yard Waste	0.0%	2.7%	0.3%	0.0%	0.0%	0.0%
39	Textiles and Shoes	1.6%	1.8%	2.4%	0.5%	3.4%	0.0%
40	Construction and Demolition Waste	0.0%	19.5%	4.1%	0.5%	0.6%	1.0%
41	Hazardous / Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
42	Batteries	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
43	Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	E-waste & Small Appliances	0.2%	0.0%	0.4%	0.2%	0.0%	0.0%
45	Bulky Items	0.0%	0.0%	0.0%	0.0%	3.9%	0.0%
46	Tanglers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
47	Bagged Recyclables	8.7%	3.1%	0.6%	3.0%	1.3%	2.5%
48	Bagged Waste	12.1%	0.0%	2.9%	0.0%	3.0%	0.0%
49	Disposable Diapers	2.7%	0.0%	0.0%	0.0%	0.3%	0.0%
50	Other Contaminants	8.8%	2.2%	4.6%	0.7%	7.6%	1.1%
52	Grit	2.9%	1.1%	4.5%	0.8%	1.5%	1.1%
Totals		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Load Weights (tons)		4.06	4.10	3.59*	1.87	3.43	3.41

Note: Columns may not appear to correctly sum due to rounding. The load for Sample 18 could not be found in the City's scale data. It is assumed to be the average of other Tuesday loads.

Table C-1: Recycling Samples (percent by weight) – Continued

Load Information		Resi: Thu, Route #2, Truck #RDK	Resi: Thu, Route #6, Truck #4460	MF: Mon, Route #2, Truck #4169	MF: Tue, Route #1, Truck #4468	MF: Wed, Route #2, Truck #4468	MF: Thu, Route #1, Truck #4468
Material Categories	sample #	25	26	7	19	20	27
1	Corrugated Cardboard	15.5%	17.2%	7.9%	32.5%	23.1%	3.1%
2	Wet Cardboard	1.6%	2.2%	0.2%	0.5%	0.2%	3.4%
3	Newspapers, Magazines, and Catalogs	2.4%	6.7%	6.6%	6.3%	22.7%	6.3%
4	Mixed Paper	7.2%	13.9%	9.9%	18.5%	25.4%	18.5%
5	Wet Paper	3.4%	4.3%	0.0%	0.7%	0.0%	6.9%
6	Aseptic Boxes and Gable Top Cartons	1.4%	0.7%	0.5%	0.8%	0.2%	0.6%
7	Compostable Paper	0.2%	1.2%	0.8%	0.1%	0.0%	0.4%
8	Non-recyclable Paper	0.7%	0.6%	0.2%	0.9%	0.2%	0.3%
9	PET Bottles, Jugs, Jars – Clear (#1)	4.6%	5.6%	4.6%	4.8%	9.8%	3.4%
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.2%	0.0%	0.3%	0.4%	0.2%	0.2%
11	PET Clamshells (#1)	0.5%	0.6%	0.6%	0.6%	1.0%	0.4%
12	PET Drink Cups (#1)	0.0%	0.0%	0.1%	0.0%	0.8%	0.0%
13	Other PET Non-bottle Rigid - Clear (#1)	0.4%	0.2%	0.1%	0.6%	0.0%	0.0%
14	Other PET Non-bottle Rigid – Op./ Pig. (#1)	0.0%	0.0%	0.0%	0.4%	0.2%	0.0%
15	Natural HDPE Bottles (#2)	0.4%	0.8%	0.8%	0.4%	3.0%	0.6%
16	Colored HDPE Bottles (#2)	0.4%	1.9%	2.1%	1.1%	1.7%	0.4%
17	Non-bottle HDPE Containers (#2)	0.0%	0.0%	0.1%	0.5%	0.0%	0.0%
18	PP Bottles, Jars, Jugs (#5)	0.0%	0.1%	0.1%	0.1%	0.0%	0.1%
19	PP Clamshells (#5)	0.0%	0.5%	0.0%	0.1%	0.2%	0.0%
20	PP Tubs (#5)	0.2%	0.3%	0.3%	0.5%	0.2%	0.4%
21	PP Drink Cups (#5)	0.1%	0.3%	0.1%	0.0%	0.2%	0.2%
22	Other PP Non-bottle Rigid (#5)	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.1%	0.0%	0.2%	0.0%	0.0%	0.0%
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.3%	0.0%	0.0%	0.2%	0.1%
25	Expanded Polystyrene Foam	0.2%	0.0%	0.1%	0.2%	0.1%	0.2%
26	Plastic Bags and Clean Film	0.9%	0.2%	0.2%	0.9%	0.6%	0.3%
27	Plastic Garbage Bags	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28	Other Plastic Film/Flexibles	0.9%	0.6%	0.6%	0.4%	0.0%	0.3%
29	Bulky Rigid Plastics	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
30	Unacceptable Rigid Plastics	1.1%	2.6%	0.8%	0.6%	0.8%	1.2%
31	Tin/Steel Cans	1.2%	1.8%	0.8%	2.4%	0.9%	0.9%
32	Aluminum Cans	0.7%	2.7%	1.9%	2.2%	0.7%	2.3%
33	Aluminum Foil and Trays	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%
34	Scrap Metals	0.4%	0.0%	0.0%	0.0%	2.4%	0.3%
35	Glass Bottles and Jars	18.7%	19.9%	54.2%	14.3%	2.3%	40.6%
36	Unacceptable Glass, Ceramics, and Porcelain	0.1%	0.2%	0.0%	1.5%	0.0%	3.6%
37	Food Waste	2.1%	1.5%	0.6%	0.8%	0.0%	0.5%
38	Yard Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
39	Textiles and Shoes	0.9%	0.5%	0.1%	0.1%	0.0%	0.0%
40	Construction and Demolition Waste	5.7%	0.0%	0.0%	0.9%	0.0%	0.6%
41	Hazardous / Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
42	Batteries	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
43	Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	E-waste & Small Appliances	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45	Bulky Items	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
46	Tanglers	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
47	Bagged Recyclables	2.2%	0.0%	0.0%	2.6%	2.3%	0.0%
48	Bagged Waste	12.3%	0.0%	1.3%	0.4%	0.0%	0.0%
49	Disposable Diapers	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%
50	Other Contaminants	7.5%	7.0%	0.8%	1.5%	0.5%	2.0%
52	Grit	5.6%	3.4%	3.3%	1.5%	0.0%	1.6%
	Totals	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	Load Weights (tons)	3.95	4.29	1.53	1.16	0.79	1.98

Note: Columns may not appear to correctly sum due to rounding.

Table C-1: Recycling Samples (percent by weight) – Continued

Load Information		FEL: Fri, Truck #RDKFEL2	FEL: Tue, Truck #4324	DO: Wed, Truck #5216
Material Categories	sample #	1	15	21
1	Corrugated Cardboard	25.4%	82.4%	5.4%
2	Wet Cardboard	0.0%	0.0%	0.0%
3	Newspapers, Magazines, and Catalogs	1.3%	1.0%	6.4%
4	Mixed Paper	6.0%	5.7%	36.1%
5	Wet Paper	0.9%	0.0%	0.0%
6	Aseptic Boxes and Gable Top Cartons	0.2%	0.2%	0.7%
7	Compostable Paper	0.2%	0.0%	0.1%
8	Non-recyclable Paper	1.0%	0.2%	0.2%
9	PET Bottles, Jugs, Jars – Clear (#1)	2.0%	1.9%	4.9%
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.4%	0.0%	0.1%
11	PET Clamshells (#1)	0.5%	0.1%	0.5%
12	PET Drink Cups (#1)	0.0%	0.0%	0.0%
13	Other PET Non-bottle Rigid - Clear (#1)	0.1%	0.4%	0.1%
14	Other PET Non-bottle Rigid - Op./ Pig. (#1)	0.0%	0.0%	0.0%
15	Natural HDPE Bottles (#2)	0.8%	0.8%	1.3%
16	Colored HDPE Bottles (#2)	0.5%	0.7%	2.0%
17	Non-bottle HDPE Containers (#2)	0.0%	0.0%	0.2%
18	PP Bottles, Jars, Jugs (#5)	0.2%	0.0%	0.1%
19	PP Clamshells (#5)	0.0%	0.0%	0.0%
20	PP Tubs (#5)	0.1%	0.3%	0.1%
21	PP Drink Cups (#5)	0.1%	0.0%	0.0%
22	Other PP Non-bottle Rigid (#5)	0.1%	0.1%	0.2%
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.0%	0.0%
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.3%	0.0%
25	Expanded Polystyrene Foam	0.6%	0.1%	0.1%
26	Plastic Bags and Clean Film	0.4%	0.6%	0.2%
27	Plastic Garbage Bags	0.0%	0.0%	0.0%
28	Other Plastic Film/Flexibles	0.5%	0.3%	0.4%
29	Bulky Rigid Plastics	0.6%	0.0%	0.0%
30	Unacceptable Rigid Plastics	1.0%	0.2%	0.5%
31	Tin/Steel Cans	0.8%	0.2%	1.5%
32	Aluminum Cans	0.7%	0.3%	1.8%
33	Aluminum Foil and Trays	0.0%	0.0%	0.0%
34	Scrap Metals	0.0%	0.0%	0.0%
35	Glass Bottles and Jars	14.5%	1.2%	35.1%
36	Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.0%
37	Food Waste	1.5%	0.3%	0.3%
38	Yard Waste	0.5%	0.0%	0.0%
39	Textiles and Shoes	0.0%	1.5%	0.1%
40	Construction and Demolition Waste	0.0%	0.0%	0.0%
41	Hazardous / Special Waste	0.0%	0.0%	0.0%
42	Batteries	0.0%	0.0%	0.0%
43	Sharps	0.0%	0.0%	0.0%
44	E-waste & Small Appliances	0.0%	0.0%	0.0%
45	Bulky Items	17.7%	0.0%	0.0%
46	Tanglers	0.2%	0.0%	0.0%
47	Bagged Recyclables	10.8%	0.0%	0.0%
48	Bagged Waste	3.1%	0.0%	0.0%
49	Disposable Diapers	0.0%	0.0%	0.0%
50	Other Contaminants	6.7%	0.0%	1.3%
52	Grit	0.5%	0.8%	0.3%
	Totals	100.0%	100.0%	100.0%
	Load Weights (tons)	2.13	4.80	0.84

Note: Columns may not appear to correctly sum due to rounding.

Table C-2: Trash Samples (percent by weight)

Load Information		Resi: Fri, Route #5, Truck #4981	Resi: Fri, Route #1, Truck #4978	Resi: Fri, Route #2, Truck #4979	Resi: Fri, Route #4, Truck #4980	Resi: Mon, Route #6, Truck #5127	Resi: Mon, Route #1, Truck #4978
Material Categories	sample #	1	2	3	4	5	6
1	Corrugated Cardboard	2.6%	1.9%	1.3%	3.2%	1.2%	3.0%
3	Newspapers, Magazines, and Catalogs	0.8%	0.6%	0.5%	0.3%	1.1%	1.1%
4	Mixed Paper	6.0%	5.8%	3.6%	9.3%	4.0%	7.2%
6	Aseptic Boxes and Gable Top Cartons	0.1%	0.5%	0.2%	0.4%	0.1%	0.3%
7	Compostable Paper	4.1%	10.2%	5.2%	8.3%	4.1%	11.0%
8	Non-recyclable Paper	7.0%	1.1%	0.9%	2.5%	8.2%	2.8%
9	PET Bottles, Jugs, Jars – Clear (#1)	1.8%	2.0%	0.9%	2.8%	1.0%	1.9%
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.2%	0.0%	0.0%	0.0%	0.0%	0.2%
11	PET Clamshells (#1)	0.1%	0.4%	0.2%	0.2%	0.1%	0.4%
12	PET Drink Cups (#1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13	Other PET Non-bottle Rigids - Clear (#1)	0.1%	0.4%	0.4%	0.5%	0.1%	0.2%
14	Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.3%	0.1%	0.0%	0.0%	0.0%	0.2%
15	Natural HDPE Bottles (#2)	0.2%	0.3%	0.0%	0.4%	0.3%	0.1%
16	Colored HDPE Bottles (#2)	0.6%	0.5%	0.0%	0.2%	0.3%	1.1%
17	Non-bottle HDPE Containers (#2)	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%
18	PP Bottles, Jars, Jugs (#5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
19	PP Clamshells (#5)	0.2%	0.0%	0.2%	0.3%	0.0%	0.0%
20	PP Tubs (#5)	1.4%	0.7%	0.9%	1.2%	0.1%	0.6%
21	PP Drink Cups (#5)	0.2%	0.1%	0.0%	0.5%	0.1%	0.0%
22	Other PP Non-bottle Rigids (#5)	0.1%	0.2%	0.3%	0.0%	0.3%	0.3%
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.0%	0.1%	0.2%	0.0%	0.2%	0.0%
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%
25	Expanded Polystyrene Foam	0.5%	1.0%	0.5%	1.6%	0.2%	0.4%
26	Plastic Bags and Clean Film	0.7%	0.5%	0.3%	0.3%	0.1%	0.4%
27	Plastic Garbage Bags	2.4%	4.2%	2.3%	3.9%	1.5%	2.7%
28	Other Plastic Film/Flexibles	3.9%	4.4%	2.5%	3.0%	1.9%	3.7%
29	Bulky Rigid Plastics	0.8%	0.1%	1.0%	0.0%	0.0%	0.9%
30	Unacceptable Rigid Plastics	1.9%	1.7%	3.8%	0.0%	2.7%	1.5%
31	Tin/Steel Cans	1.0%	1.2%	0.5%	0.9%	0.8%	0.8%
32	Aluminum Cans	0.6%	0.5%	0.4%	0.7%	0.5%	0.7%
33	Aluminum Foil and Trays	0.3%	0.4%	0.0%	0.2%	0.1%	0.4%
34	Scrap Metals	0.9%	0.4%	1.6%	1.8%	0.7%	1.3%
35	Glass Bottles and Jars	2.7%	6.1%	3.6%	1.4%	2.5%	0.5%
36	Unacceptable Glass, Ceramics, and Porcelain	0.0%	0.0%	0.5%	0.0%	0.1%	0.0%
37	Food Waste	23.8%	31.5%	33.1%	24.0%	27.0%	24.8%
38	Yard Waste	0.2%	1.0%	3.1%	0.3%	0.2%	0.2%
39	Textiles and Shoes	3.5%	3.0%	1.9%	4.0%	5.4%	6.1%
40	Construction and Demolition Waste	16.9%	1.1%	3.4%	9.9%	4.7%	6.4%
41	Hazardous / Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
42	Batteries	0.0%	0.0%	0.1%	0.0%	0.0%	0.2%
43	Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	E-waste & Small Appliances	0.6%	0.4%	0.3%	0.1%	11.9%	0.5%
45	Bulky Items	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
49	Disposable Diapers	0.8%	7.6%	4.5%	3.5%	6.5%	1.7%
50	Other Contaminants	9.0%	8.6%	20.7%	13.1%	11.2%	11.5%
51	Liquids	3.3%	1.1%	0.9%	1.0%	0.6%	2.2%
52	Grit	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%
	Totals	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	Load Weights (tons)	10.66	10.56	9.75	9.60	10.66	9.76

Note: Columns may not appear to correctly sum due to rounding.

Table C-2: Trash Samples (percent by weight) - Continued

Load Information		Resi: Mon, Route #4, Truck #5126	Resi: Mon, Route #2, Truck #4979	Resi: Mon, Route #5, Truck #4981	Resi: Tue, Route #1, Truck #4978	Resi: Tue, Route #3, Truck #5125	Resi: Tue, Route #5, Truck #4981
Material Categories	sample #	7	8	9	10	11	12
1	Corrugated Cardboard	2.6%	2.5%	4.5%	0.7%	1.5%	2.0%
3	Newspapers, Magazines, and Catalogs	0.7%	1.3%	3.2%	1.0%	1.9%	0.3%
4	Mixed Paper	5.0%	7.3%	6.0%	4.3%	6.3%	5.3%
6	Aseptic Boxes and Gable Top Cartons	0.2%	0.4%	0.3%	0.3%	0.3%	0.2%
7	Compostable Paper	5.1%	3.0%	3.4%	6.4%	5.3%	3.5%
8	Non-recyclable Paper	2.5%	6.4%	3.4%	4.1%	7.4%	2.2%
9	PET Bottles, Jugs, Jars – Clear (#1)	1.6%	0.0%	2.0%	2.2%	1.6%	2.4%
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.1%	0.7%	0.0%	0.1%	0.1%	0.3%
11	PET Clamshells (#1)	0.0%	0.0%	0.3%	0.3%	0.3%	0.0%
12	PET Drink Cups (#1)	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%
13	Other PET Non-bottle Rigids - Clear (#1)	0.5%	0.1%	0.1%	0.2%	0.2%	0.2%
14	Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%
15	Natural HDPE Bottles (#2)	0.6%	0.0%	0.0%	0.4%	0.6%	0.3%
16	Colored HDPE Bottles (#2)	0.4%	0.1%	0.5%	0.2%	0.4%	0.6%
17	Non-bottle HDPE Containers (#2)	0.0%	0.3%	0.0%	0.2%	0.0%	0.0%
18	PP Bottles, Jars, Jugs (#5)	0.1%	0.4%	0.0%	0.0%	0.1%	0.2%
19	PP Clamshells (#5)	0.0%	0.2%	0.2%	0.0%	0.0%	0.0%
20	PP Tubs (#5)	0.5%	0.5%	0.2%	0.7%	0.7%	0.2%
21	PP Drink Cups (#5)	0.1%	0.1%	0.1%	0.0%	0.1%	0.3%
22	Other PP Non-bottle Rigids (#5)	0.3%	0.2%	0.2%	0.2%	0.3%	0.5%
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.2%	0.0%	0.1%	0.0%	0.1%	0.1%
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
25	Expanded Polystyrene Foam	0.3%	0.5%	0.5%	0.7%	0.5%	1.3%
26	Plastic Bags and Clean Film	0.4%	0.8%	0.2%	0.9%	0.6%	0.8%
27	Plastic Garbage Bags	2.5%	1.5%	2.1%	2.2%	2.1%	3.2%
28	Other Plastic Film/Flexibles	3.4%	3.0%	2.7%	2.8%	3.1%	2.1%
29	Bulky Rigid Plastics	0.0%	1.3%	0.9%	0.0%	0.0%	0.0%
30	Unacceptable Rigid Plastics	1.9%	2.1%	3.5%	2.7%	1.3%	3.6%
31	Tin/Steel Cans	1.4%	1.5%	0.3%	1.1%	0.6%	2.2%
32	Aluminum Cans	0.3%	0.6%	0.4%	0.5%	0.3%	0.9%
33	Aluminum Foil and Trays	0.3%	0.3%	0.5%	0.7%	0.3%	0.7%
34	Scrap Metals	0.3%	0.0%	6.5%	0.0%	0.7%	2.2%
35	Glass Bottles and Jars	3.0%	4.8%	1.5%	2.7%	1.7%	3.6%
36	Unacceptable Glass, Ceramics, and Porcelain	1.3%	0.4%	0.9%	0.8%	0.6%	0.4%
37	Food Waste	25.3%	32.6%	25.3%	23.7%	24.7%	39.7%
38	Yard Waste	6.8%	4.6%	0.4%	0.1%	0.4%	0.0%
39	Textiles and Shoes	3.8%	5.6%	2.7%	4.2%	3.2%	4.2%
40	Construction and Demolition Waste	0.3%	1.5%	0.3%	13.6%	0.4%	3.8%
41	Hazardous / Special Waste	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%
42	Batteries	1.0%	0.0%	0.1%	1.2%	0.0%	0.0%
43	Sharps	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%
44	E-waste & Small Appliances	0.0%	0.0%	0.2%	0.0%	20.2%	0.0%
45	Bulky Items	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
49	Disposable Diapers	1.5%	5.8%	13.5%	6.4%	2.4%	3.6%
50	Other Contaminants	23.8%	8.2%	12.6%	11.7%	6.9%	7.2%
51	Liquids	1.8%	0.0%	0.2%	0.9%	2.3%	1.3%
52	Grit	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%
	Totals	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	Load Weights (tons)	9.07	8.58	10.31	9.75	12.02	10.34

Note: Columns may not appear to correctly sum due to rounding.

Table C-2: Trash Samples (percent by weight) - Continued

Load Information		Resi: Tue, Route #7, Truck #4980	Resi: Tue, Route #6, Truck #5127	Resi: Thu, Route #2, Truck #4979	Resi: Thu, Route #3, Truck #5125	Resi: Thu, Route #4, Truck #5126	Resi: Thu, Route #7, Truck #4980
Material Categories	sample #	13	14	15	16	17	18
1	Corrugated Cardboard	3.6%	0.8%	0.8%	0.6%	2.5%	0.2%
3	Newspapers, Magazines, and Catalogs	1.3%	1.9%	5.0%	0.3%	0.7%	0.1%
4	Mixed Paper	8.5%	3.9%	9.5%	3.6%	4.6%	2.6%
6	Aseptic Boxes and Gable Top Cartons	0.4%	0.3%	0.0%	0.1%	0.2%	0.2%
7	Compostable Paper	6.1%	3.0%	3.7%	4.4%	4.2%	5.0%
8	Non-recyclable Paper	2.4%	0.4%	2.8%	2.6%	3.5%	1.2%
9	PET Bottles, Jugs, Jars – Clear (#1)	3.9%	0.8%	1.1%	1.4%	1.4%	0.4%
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%
11	PET Clamshells (#1)	0.4%	0.0%	0.1%	0.2%	0.2%	0.2%
12	PET Drink Cups (#1)	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
13	Other PET Non-bottle Rigids - Clear (#1)	0.7%	0.0%	0.2%	0.2%	0.1%	0.2%
14	Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.0%	0.0%	0.1%	0.1%	0.0%	0.3%
15	Natural HDPE Bottles (#2)	0.0%	0.2%	0.3%	0.4%	0.2%	0.1%
16	Colored HDPE Bottles (#2)	0.0%	0.2%	0.0%	0.6%	0.1%	0.3%
17	Non-bottle HDPE Containers (#2)	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%
18	PP Bottles, Jars, Jugs (#5)	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%
19	PP Clamshells (#5)	0.0%	0.0%	0.2%	0.1%	0.0%	0.1%
20	PP Tubs (#5)	0.4%	0.2%	0.1%	0.5%	0.6%	0.2%
21	PP Drink Cups (#5)	0.3%	0.0%	0.1%	0.4%	0.1%	0.0%
22	Other PP Non-bottle Rigids (#5)	0.1%	0.2%	0.2%	0.2%	0.2%	0.0%
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%
25	Expanded Polystyrene Foam	0.8%	0.5%	0.6%	0.8%	0.5%	0.4%
26	Plastic Bags and Clean Film	0.7%	0.3%	0.4%	0.5%	0.6%	0.2%
27	Plastic Garbage Bags	2.0%	1.7%	2.5%	2.6%	2.6%	1.9%
28	Other Plastic Film/Flexibles	2.0%	1.5%	2.0%	2.5%	2.7%	2.5%
29	Bulky Rigid Plastics	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
30	Unacceptable Rigid Plastics	0.7%	0.9%	1.9%	1.2%	0.9%	1.1%
31	Tin/Steel Cans	1.3%	0.9%	1.1%	1.6%	1.0%	0.4%
32	Aluminum Cans	0.9%	0.4%	0.9%	0.8%	0.4%	0.6%
33	Aluminum Foil and Trays	0.0%	0.1%	0.3%	0.1%	0.3%	0.3%
34	Scrap Metals	1.2%	0.9%	2.7%	0.4%	0.1%	0.9%
35	Glass Bottles and Jars	4.8%	3.1%	1.9%	2.4%	4.0%	1.9%
36	Unacceptable Glass, Ceramics, and Porcelain	1.1%	0.2%	0.0%	0.0%	0.1%	0.2%
37	Food Waste	21.0%	23.1%	44.8%	28.7%	16.7%	23.6%
38	Yard Waste	10.3%	12.6%	0.1%	10.2%	24.2%	15.3%
39	Textiles and Shoes	3.2%	4.2%	1.2%	4.6%	1.3%	2.9%
40	Construction and Demolition Waste	5.3%	5.2%	1.9%	8.3%	5.2%	18.6%
41	Hazardous / Special Waste	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%
42	Batteries	0.0%	0.0%	0.0%	0.1%	4.8%	0.0%
43	Sharps	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	E-waste & Small Appliances	1.7%	17.3%	1.5%	1.0%	2.4%	0.1%
45	Bulky Items	0.0%	0.0%	0.0%	3.9%	0.0%	6.1%
49	Disposable Diapers	5.5%	1.8%	7.8%	5.5%	3.1%	1.9%
50	Other Contaminants	6.4%	11.8%	1.7%	6.8%	9.7%	7.8%
51	Liquids	1.7%	0.0%	2.3%	2.1%	0.4%	0.0%
52	Grit	0.9%	1.7%	0.0%	0.0%	0.0%	0.0%
	Totals	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	Load Weights (tons)	11.42	12.79	10.13	10.30	9.80	9.56

Note: Columns may not appear to correctly sum due to rounding.

ATTACHMENT D: INDIVIDUAL SAMPLE RESULTS (WEIGHT)
Table D-1: Recycling Samples (pounds)

Load Information		Resi: Fri, Route #4, Truck #4458	Resi: Fri, Route #5, Truck #4459	Resi: Fri, Route #2, Truck #RDK	Resi: Fri, Route #1, Truck #4162	Resi: Fri, Route #6, Truck #4460	Resi: Mon, Route #3, Truck #4322
Material Categories	sample #	2	3	4	5	6	8
1	Corrugated Cardboard	68.60	31.90	43.05	38.80	27.30	27.75
2	Wet Cardboard	5.40	0.95	0.00	0.00	6.90	5.55
3	Newspapers, Magazines, and Catalogs	9.90	13.50	15.90	9.10	1.00	16.95
4	Mixed Paper	21.30	38.45	23.65	21.80	10.45	55.20
5	Wet Paper	1.90	6.45	2.70	0.00	8.70	2.80
6	Aseptic Boxes and Gable Top Cartons	0.75	1.70	1.15	1.10	0.60	1.40
7	Compostable Paper	2.90	2.05	0.85	0.45	0.95	0.50
8	Non-recyclable Paper	0.35	0.60	1.05	0.50	1.25	0.45
9	PET Bottles, Jugs, Jars – Clear (#1)	7.05	6.95	12.95	9.35	7.63	15.40
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.20	0.20	0.95	0.45	0.15	0.15
11	PET Clamshells (#1)	0.30	0.55	1.60	0.00	0.45	0.40
12	PET Drink Cups (#1)	0.00	0.00	0.00	0.05	0.05	0.00
13	Other PET Non-bottle Rigid - Clear (#1)	0.05	0.15	1.15	0.60	0.30	0.10
14	Other PET Non-bottle Rigid – Op./ Pig. (#1)	0.00	0.50	0.00	0.10	0.00	0.10
15	Natural HDPE Bottles (#2)	3.50	4.25	3.10	1.50	1.55	3.55
16	Colored HDPE Bottles (#2)	1.65	2.30	5.10	2.75	3.20	2.95
17	Non-bottle HDPE Containers (#2)	0.35	0.30	0.23	0.10	0.00	0.80
18	PP Bottles, Jars, Jugs (#5)	0.00	0.15	0.80	0.00	0.05	0.30
19	PP Clamshells (#5)	0.05	0.00	0.10	0.85	0.20	0.20
20	PP Tubs (#5)	0.60	0.95	0.65	1.70	0.10	0.45
21	PP Drink Cups (#5)	0.05	0.35	0.50	0.50	0.20	0.35
22	Other PP Non-bottle Rigid (#5)	0.00	0.25	0.40	0.00	0.30	0.00
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.00	0.10	0.35	0.00	0.00	0.65
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.00	0.00	0.10	0.00	0.00	0.00
25	Expanded Polystyrene Foam	0.40	0.15	0.80	0.20	0.95	0.25
26	Plastic Bags and Clean Film	1.80	2.50	1.15	6.20	2.00	1.00
27	Plastic Garbage Bags	0.00	0.00	0.00	0.00	0.00	0.00
28	Other Plastic Film/Flexibles	1.85	0.50	1.70	1.15	4.20	2.30
29	Bulky Rigid Plastics	1.70	0.00	0.65	0.00	2.85	0.00
30	Unacceptable Rigid Plastics	4.35	2.35	1.70	1.90	3.20	2.50
31	Tin/Steel Cans	1.50	2.80	3.30	2.60	1.30	6.55
32	Aluminum Cans	4.90	4.05	3.50	3.35	3.70	5.05
33	Aluminum Foil and Trays	0.20	0.05	0.05	0.10	0.15	0.20
34	Scrap Metals	0.35	1.05	3.70	1.15	1.00	2.15
35	Glass Bottles and Jars	12.80	17.80	30.45	18.20	13.10	46.10
36	Unacceptable Glass, Ceramics, and Porcelain	0.30	0.00	0.00	0.00	0.25	2.70
37	Food Waste	2.75	2.55	0.40	0.00	8.25	0.30
38	Yard Waste	0.00	0.15	0.00	0.00	25.85	0.00
39	Textiles and Shoes	2.10	5.20	2.40	1.40	6.50	0.30
40	Construction and Demolition Waste	0.00	0.00	0.00	0.00	3.00	26.98
41	Hazardous / Special Waste	0.00	0.00	0.00	0.00	0.00	0.00
42	Batteries	0.00	0.00	0.05	0.00	0.00	0.00
43	Sharps	0.00	0.00	0.10	0.00	0.00	0.00
44	E-waste & Small Appliances	6.80	4.00	0.00	2.30	0.00	0.00
45	Bulky Items	0.00	0.00	0.00	0.00	0.00	0.00
46	Tanglers	0.00	0.00	1.15	0.00	0.00	0.00
47	Bagged Recyclables	0.50	6.90	0.50	0.00	0.00	4.50
48	Bagged Waste	2.70	10.80	0.85	28.75	24.15	0.00
49	Disposable Diapers	3.25	0.00	0.00	0.00	2.80	3.85
50	Other Contaminants	2.75	6.45	2.50	0.70	9.70	17.70
52	Grit	1.95	4.00	1.95	0.80	8.90	7.95
Totals		177.85	183.90	173.23	158.50	193.18	266.38

Note: Columns may not appear to correctly sum due to rounding.

Table D-1: Recycling Samples (pounds) – Continued

Load Information		Resi: Mon, Route #2, Truck #RDK	Resi: Mon, Route #6, Truck #4460	Resi: Mon, Route #4, Truck #4458	Resi: Mon, Route #1, Truck #4162	Resi: Tue, Route #3, Truck #4322	Resi: Tue, Route #4, Truck #4458
Material Categories	sample #	9	10	11	12	13	14
1	Corrugated Cardboard	35.55	52.60	52.45	95.65	36.60	43.65
2	Wet Cardboard	0.00	3.00	0.00	1.10	2.15	0.95
3	Newspapers, Magazines, and Catalogs	20.30	7.20	10.15	12.35	20.15	3.45
4	Mixed Paper	51.30	16.40	29.30	32.80	22.25	18.10
5	Wet Paper	0.60	0.50	0.00	3.00	4.60	0.30
6	Aseptic Boxes and Gable Top Cartons	1.40	0.50	1.00	1.35	0.40	0.85
7	Compostable Paper	0.35	0.35	0.45	0.30	0.85	0.15
8	Non-recyclable Paper	0.55	0.80	0.85	1.00	0.40	0.25
9	PET Bottles, Jugs, Jars – Clear (#1)	9.15	6.65	10.70	7.40	8.85	5.00
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.20	0.45	0.75	0.35	0.50	0.00
11	PET Clamshells (#1)	2.25	2.00	1.85	2.15	0.75	1.15
12	PET Drink Cups (#1)	0.05	0.00	0.00	0.00	0.00	0.00
13	Other PET Non-bottle Rigids - Clear (#1)	0.00	0.00	0.75	0.00	0.85	0.45
14	Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.30	0.00	0.00	0.15	0.25	0.40
15	Natural HDPE Bottles (#2)	1.85	2.05	1.50	4.25	2.55	1.50
16	Colored HDPE Bottles (#2)	1.70	2.75	4.00	1.35	1.30	2.25
17	Non-bottle HDPE Containers (#2)	0.40	0.55	1.00	0.00	0.00	0.30
18	PP Bottles, Jars, Jugs (#5)	0.25	0.10	0.15	0.30	0.20	0.15
19	PP Clamshells (#5)	0.00	0.00	0.00	0.00	0.15	0.00
20	PP Tubs (#5)	1.00	0.30	0.60	0.50	0.75	0.30
21	PP Drink Cups (#5)	0.00	0.20	0.35	0.20	0.35	0.30
22	Other PP Non-bottle Rigids (#5)	0.20	0.35	0.00	0.15	0.20	0.00
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.05	0.00	0.05	0.10	0.10	0.05
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.00	0.05	0.05	0.00	0.00	0.00
25	Expanded Polystyrene Foam	0.35	0.45	0.60	0.45	0.10	0.10
26	Plastic Bags and Clean Film	1.25	0.40	2.00	0.30	0.80	1.25
27	Plastic Garbage Bags	0.00	0.00	0.00	0.00	0.00	0.00
28	Other Plastic Film/Flexibles	0.95	3.65	1.15	2.60	1.55	1.00
29	Bulky Rigid Plastics	7.15	1.50	1.20	2.45	0.00	0.00
30	Unacceptable Rigid Plastics	4.60	2.30	3.90	2.60	4.50	3.60
31	Tin/Steel Cans	3.45	2.80	3.25	2.85	2.80	2.85
32	Aluminum Cans	2.70	1.10	2.10	3.75	2.80	2.55
33	Aluminum Foil and Trays	0.15	0.00	0.05	0.05	0.10	0.00
34	Scrap Metals	0.20	0.00	0.30	1.60	0.00	0.85
35	Glass Bottles and Jars	46.35	3.50	8.60	40.40	21.60	18.10
36	Unacceptable Glass, Ceramics, and Porcelain	0.00	0.00	0.00	0.00	0.10	0.00
37	Food Waste	0.00	0.25	0.80	0.60	5.45	0.60
38	Yard Waste	1.30	0.00	0.40	0.00	1.00	0.10
39	Textiles and Shoes	1.15	5.45	2.10	2.20	8.45	3.35
40	Construction and Demolition Waste	2.20	2.13	0.00	0.00	0.00	38.35
41	Hazardous / Special Waste	0.00	0.00	0.00	0.00	0.00	0.00
42	Batteries	0.00	0.00	0.00	0.00	0.00	0.00
43	Sharps	0.00	0.00	0.00	0.00	0.00	0.00
44	E-waste & Small Appliances	1.55	27.40	0.00	0.25	0.00	0.15
45	Bulky Items	0.00	0.00	0.00	0.00	0.00	0.00
46	Tanglers	0.00	0.00	0.15	0.55	0.30	0.05
47	Bagged Recyclables	13.00	0.00	0.75	0.00	4.50	0.00
48	Bagged Waste	4.20	0.00	8.75	0.30	12.15	0.00
49	Disposable Diapers	0.00	0.00	0.00	0.00	0.00	0.00
50	Other Contaminants	2.80	1.00	4.40	5.85	3.80	1.65
52	Grit	7.95	2.05	2.95	18.65	1.15	8.20
Totals		228.75	150.78	159.40	249.90	175.35	162.30

Note: Columns may not appear to correctly sum due to rounding.

Table D-1: Recycling Samples (pounds) – Continued

Load Information		Resi: Tue, Route #2, Truck #RDK	Resi: Tue, Route #5, Truck #4323	Resi: Tue, Route #1, Truck #4162	Resi: Thu, Route #1, Truck #4162	Resi: Thu, Route #5, Truck #4320	Resi: Thu, Route #3, Truck #4322
Material Categories	sample #	16	17	18	22	23	24
1	Corrugated Cardboard	22.35	37.35	44.75	22.55	18.80	50.05
2	Wet Cardboard	5.30	0.20	1.60	1.60	5.00	1.75
3	Newspapers, Magazines, and Catalogs	3.40	8.50	2.75	16.40	4.15	15.05
4	Mixed Paper	7.85	20.05	17.00	18.00	12.25	29.85
5	Wet Paper	5.35	0.55	9.70	9.15	8.05	11.30
6	Aseptic Boxes and Gable Top Cartons	0.60	0.85	0.60	0.80	0.70	0.95
7	Compostable Paper	2.70	0.90	1.80	1.30	0.95	0.60
8	Non-recyclable Paper	1.80	0.75	1.20	0.30	1.60	1.40
9	PET Bottles, Jugs, Jars – Clear (#1)	7.25	10.80	4.70	10.35	8.60	7.15
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.20	0.35	0.40	0.35	0.35	0.15
11	PET Clamshells (#1)	0.00	0.55	0.45	1.70	1.40	1.95
12	PET Drink Cups (#1)	0.00	0.10	0.05	0.05	0.05	0.00
13	Other PET Non-bottle Rigid - Clear (#1)	1.05	0.55	1.05	0.35	0.00	0.65
14	Other PET Non-bottle Rigid – Op./ Pig. (#1)	0.00	0.25	1.85	0.00	0.05	0.00
15	Natural HDPE Bottles (#2)	1.30	2.45	4.55	1.05	1.30	1.50
16	Colored HDPE Bottles (#2)	0.65	2.15	0.00	2.20	2.25	1.35
17	Non-bottle HDPE Containers (#2)	0.20	0.25	0.00	0.35	0.00	0.15
18	PP Bottles, Jars, Jugs (#5)	0.00	0.25	0.10	0.15	0.25	0.05
19	PP Clamshells (#5)	0.00	0.20	0.00	0.25	0.15	0.15
20	PP Tubs (#5)	0.30	0.50	1.10	1.45	0.70	0.65
21	PP Drink Cups (#5)	0.45	0.00	0.10	0.10	0.25	0.10
22	Other PP Non-bottle Rigid (#5)	0.00	0.10	0.00	0.00	0.05	0.05
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.10	0.10	0.10	0.05	0.15	0.00
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.25	0.45	0.00	0.10	0.00	0.00
25	Expanded Polystyrene Foam	0.70	0.40	0.40	0.20	0.30	0.55
26	Plastic Bags and Clean Film	0.90	1.00	0.35	0.50	0.85	1.65
27	Plastic Garbage Bags	0.00	0.00	0.00	0.00	0.00	0.00
28	Other Plastic Film/Flexibles	2.70	0.50	1.65	2.25	2.55	0.80
29	Bulky Rigid Plastics	0.00	0.00	0.55	0.00	0.70	0.00
30	Unacceptable Rigid Plastics	2.95	2.25	1.55	2.75	1.70	1.55
31	Tin/Steel Cans	2.05	3.25	2.30	3.20	3.75	2.80
32	Aluminum Cans	2.80	6.85	3.80	4.15	4.35	2.40
33	Aluminum Foil and Trays	0.25	0.10	0.00	0.00	0.05	0.05
34	Scrap Metals	0.90	0.60	0.00	2.20	0.90	0.00
35	Glass Bottles and Jars	17.65	24.10	20.10	48.05	33.95	19.90
36	Unacceptable Glass, Ceramics, and Porcelain	0.00	0.15	0.00	0.65	1.75	0.50
37	Food Waste	5.45	0.00	6.40	1.40	9.00	0.75
38	Yard Waste	0.05	4.95	0.55	0.00	0.00	0.00
39	Textiles and Shoes	2.55	3.35	3.90	0.85	5.50	0.00
40	Construction and Demolition Waste	0.00	35.70	6.75	0.85	1.00	1.65
41	Hazardous / Special Waste	0.00	0.00	0.00	0.00	0.00	0.00
42	Batteries	0.00	0.10	0.00	0.00	0.00	0.00
43	Sharps	0.00	0.00	0.00	0.00	0.00	0.00
44	E-waste & Small Appliances	0.35	0.00	0.65	0.25	0.00	0.00
45	Bulky Items	0.00	0.00	0.00	0.00	6.35	0.00
46	Tanglers	0.00	0.00	0.00	0.00	0.00	0.00
47	Bagged Recyclables	13.45	5.70	1.05	4.85	2.10	4.20
48	Bagged Waste	18.75	0.00	4.70	0.00	4.90	0.00
49	Disposable Diapers	4.15	0.00	0.00	0.00	0.50	0.00
50	Other Contaminants	13.60	3.95	7.50	1.10	12.25	1.75
52	Grit	4.55	2.05	7.40	1.35	2.50	1.75
Totals		154.90	183.20	163.45	163.20	162.00	165.15

Note: Columns may not appear to correctly sum due to rounding.

Table D-1: Recycling Samples (pounds) – Continued

Load Information		Resi: Thu, Route #2, Truck #RDK	Resi: Thu, Route #6, Truck #4460	MF: Mon, Route #2, Truck #4169	MF: Tue, Route #1, Truck #4468	MF: Wed, Route #2, Truck #4468	MF: Thu, Route #1, Truck #4468
Material Categories	sample #	25	26	7	19	20	27
1	Corrugated Cardboard	27.95	31.06	12.60	52.75	36.60	4.95
2	Wet Cardboard	2.95	4.00	0.30	0.75	0.35	5.40
3	Newspapers, Magazines, and Catalogs	4.30	12.05	10.50	10.20	36.05	10.20
4	Mixed Paper	13.00	25.10	15.85	30.05	40.30	29.70
5	Wet Paper	6.05	7.75	0.00	1.20	0.00	11.05
6	Aseptic Boxes and Gable Top Cartons	2.45	1.25	0.80	1.25	0.30	0.95
7	Compostable Paper	0.45	2.25	1.20	0.15	0.05	0.65
8	Non-recyclable Paper	1.35	1.15	0.30	1.40	0.30	0.50
9	PET Bottles, Jugs, Jars – Clear (#1)	8.30	10.05	7.35	7.80	15.55	5.40
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.30	0.00	0.55	0.65	0.30	0.25
11	PET Clamshells (#1)	0.85	1.15	0.95	0.90	1.65	0.65
12	PET Drink Cups (#1)	0.00	0.00	0.15	0.05	1.30	0.00
13	Other PET Non-bottle Rigids - Clear (#1)	0.65	0.30	0.20	0.90	0.05	0.00
14	Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.00	0.00	0.05	0.60	0.30	0.00
15	Natural HDPE Bottles (#2)	0.80	1.40	1.30	0.70	4.75	1.00
16	Colored HDPE Bottles (#2)	0.70	3.40	3.35	1.75	2.70	0.60
17	Non-bottle HDPE Containers (#2)	0.00	0.00	0.15	0.80	0.00	0.00
18	PP Bottles, Jars, Jugs (#5)	0.00	0.15	0.15	0.15	0.00	0.20
19	PP Clamshells (#5)	0.00	0.85	0.00	0.10	0.25	0.00
20	PP Tubs (#5)	0.35	0.50	0.50	0.75	0.35	0.65
21	PP Drink Cups (#5)	0.20	0.50	0.10	0.05	0.25	0.30
22	Other PP Non-bottle Rigids (#5)	0.00	0.05	0.00	0.15	0.10	0.00
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.20	0.05	0.25	0.05	0.00	0.05
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.00	0.50	0.00	0.00	0.25	0.20
25	Expanded Polystyrene Foam	0.45	0.05	0.10	0.25	0.10	0.25
26	Plastic Bags and Clean Film	1.70	0.40	0.25	1.50	0.90	0.45
27	Plastic Garbage Bags	0.00	0.00	0.00	0.00	0.00	0.00
28	Other Plastic Film/Flexibles	1.65	1.05	0.95	0.60	0.05	0.50
29	Bulky Rigid Plastics	0.00	0.00	0.00	0.00	0.00	0.30
30	Unacceptable Rigid Plastics	1.90	4.60	1.20	0.95	1.25	1.95
31	Tin/Steel Cans	2.10	3.20	1.35	3.95	1.45	1.45
32	Aluminum Cans	1.30	4.85	2.95	3.55	1.15	3.70
33	Aluminum Foil and Trays	0.10	0.25	0.00	0.20	0.05	0.05
34	Scrap Metals	0.75	0.00	0.00	0.00	3.85	0.55
35	Glass Bottles and Jars	33.65	35.85	86.35	23.15	3.65	65.30
36	Unacceptable Glass, Ceramics, and Porcelain	0.25	0.40	0.00	2.45	0.00	5.80
37	Food Waste	3.75	2.70	0.90	1.35	0.00	0.75
38	Yard Waste	0.00	0.00	0.00	0.00	0.00	0.05
39	Textiles and Shoes	1.65	0.85	0.10	0.10	0.00	0.05
40	Construction and Demolition Waste	10.30	0.00	0.00	1.50	0.00	0.95
41	Hazardous / Special Waste	0.00	0.00	0.00	0.00	0.00	0.00
42	Batteries	0.10	0.00	0.00	0.00	0.00	0.00
43	Sharps	0.00	0.00	0.00	0.00	0.00	0.00
44	E-waste & Small Appliances	0.00	0.00	0.00	0.00	0.05	0.00
45	Bulky Items	0.00	0.00	0.00	0.00	0.00	0.00
46	Tanglers	0.00	0.00	0.00	0.00	0.00	0.00
47	Bagged Recyclables	3.90	0.00	0.00	4.25	3.60	0.00
48	Bagged Waste	22.25	0.00	2.15	0.65	0.00	0.00
49	Disposable Diapers	0.00	3.75	0.00	0.00	0.00	0.00
50	Other Contaminants	13.45	12.70	1.35	2.40	0.85	3.25
52	Grit	10.10	6.20	5.20	2.40	0.00	2.60
Totals		180.20	180.36	159.45	162.40	158.70	160.65

Note: Columns may not appear to correctly sum due to rounding.

Table D-1: Recycling Samples (pounds) – Continued

Load Information		FEL: Fri, Truck #RDKFEL2	FEL: Tue, Truck #4324	DO: Wed, Truck #5216	
	Material Categories	sample #	1	15	21
1	Corrugated Cardboard		51.10	132.60	9.40
2	Wet Cardboard		0.00	0.00	0.00
3	Newspapers, Magazines, and Catalogs		2.60	1.65	11.25
4	Mixed Paper		12.10	9.15	63.15
5	Wet Paper		1.90	0.00	0.00
6	Aseptic Boxes and Gable Top Cartons		0.45	0.40	1.30
7	Compostable Paper		0.40	0.05	0.15
8	Non-recyclable Paper		2.05	0.35	0.30
9	PET Bottles, Jugs, Jars – Clear (#1)		4.00	3.05	8.55
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)		0.90	0.00	0.25
11	PET Clamshells (#1)		1.00	0.15	0.80
12	PET Drink Cups (#1)		0.00	0.00	0.00
13	Other PET Non-bottle Rigid - Clear (#1)		0.23	0.60	0.25
14	Other PET Non-bottle Rigid - Op./ Pig. (#1)		0.00	0.00	0.00
15	Natural HDPE Bottles (#2)		1.60	1.25	2.20
16	Colored HDPE Bottles (#2)		1.05	1.15	3.50
17	Non-bottle HDPE Containers (#2)		0.00	0.00	0.35
18	PP Bottles, Jars, Jugs (#5)		0.40	0.05	0.15
19	PP Clamshells (#5)		0.00	0.00	0.00
20	PP Tubs (#5)		0.20	0.45	0.25
21	PP Drink Cups (#5)		0.25	0.05	0.05
22	Other PP Non-bottle Rigid (#5)		0.30	0.20	0.30
23	Other Plastic Drink Cups (#3, #4, #6, #7)		0.00	0.00	0.00
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)		0.00	0.55	0.00
25	Expanded Polystyrene Foam		1.20	0.10	0.20
26	Plastic Bags and Clean Film		0.75	0.95	0.30
27	Plastic Garbage Bags		0.00	0.00	0.00
28	Other Plastic Film/Flexibles		1.05	0.55	0.70
29	Bulky Rigid Plastics		1.15	0.00	0.00
30	Unacceptable Rigid Plastics		2.05	0.30	0.80
31	Tin/Steel Cans		1.70	0.40	2.60
32	Aluminum Cans		1.35	0.55	3.20
33	Aluminum Foil and Trays		0.00	0.00	0.00
34	Scrap Metals		0.00	0.00	0.00
35	Glass Bottles and Jars		29.15	2.00	61.45
36	Unacceptable Glass, Ceramics, and Porcelain		0.00	0.00	0.00
37	Food Waste		2.95	0.55	0.45
38	Yard Waste		1.00	0.00	0.00
39	Textiles and Shoes		0.00	2.45	0.10
40	Construction and Demolition Waste		0.00	0.00	0.00
41	Hazardous / Special Waste		0.00	0.00	0.00
42	Batteries		0.00	0.00	0.05
43	Sharps		0.00	0.00	0.00
44	E-waste & Small Appliances		0.00	0.00	0.00
45	Bulky Items		35.65	0.00	0.00
46	Tanglers		0.35	0.00	0.00
47	Bagged Recyclables		21.70	0.00	0.00
48	Bagged Waste		6.30	0.00	0.00
49	Disposable Diapers		0.00	0.00	0.00
50	Other Contaminants		13.50	0.00	2.35
52	Grit		1.00	1.30	0.55
	Totals		201.38	160.85	174.95

Note: Columns may not appear to correctly sum due to rounding.

Table D-2: Trash Samples (pounds)

Load Information		Resi: Fri, Route #5, Truck #4981	Resi: Fri, Route #1, Truck #4978	Resi: Fri, Route #2, Truck #4979	Resi: Fri, Route #4, Truck #4980	Resi: Mon, Route #6, Truck #5127	Resi: Mon, Route #1, Truck #4978
Material Categories	sample #	1	2	3	4	5	6
1	Corrugated Cardboard	5.25	4.15	2.60	6.65	2.60	6.15
3	Newspapers, Magazines, and Catalogs	1.55	1.30	1.10	0.70	2.35	2.30
4	Mixed Paper	12.15	12.40	7.45	19.65	8.65	14.80
6	Aseptic Boxes and Gable Top Cartons	0.20	1.05	0.40	0.75	0.20	0.65
7	Compostable Paper	8.30	21.65	10.60	17.60	8.70	22.55
8	Non-recyclable Paper	14.15	2.45	1.95	5.35	17.55	5.65
9	PET Bottles, Jugs, Jars – Clear (#1)	3.70	4.20	1.80	5.95	2.05	4.00
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.40	0.00	0.00	0.00	0.00	0.35
11	PET Clamshells (#1)	0.30	0.75	0.45	0.40	0.20	0.75
12	PET Drink Cups (#1)	0.00	0.00	0.00	0.00	0.10	0.10
13	Other PET Non-bottle Rigids - Clear (#1)	0.30	0.85	0.90	1.15	0.20	0.40
14	Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.55	0.25	0.00	0.05	0.10	0.35
15	Natural HDPE Bottles (#2)	0.40	0.70	0.00	0.75	0.60	0.30
16	Colored HDPE Bottles (#2)	1.30	1.10	0.05	0.40	0.60	2.30
17	Non-bottle HDPE Containers (#2)	0.00	0.00	0.00	0.00	0.40	0.00
18	PP Bottles, Jars, Jugs (#5)	0.10	0.00	0.05	0.00	0.00	0.05
19	PP Clamshells (#5)	0.45	0.00	0.45	0.65	0.00	0.00
20	PP Tubs (#5)	2.85	1.40	1.90	2.60	0.15	1.20
21	PP Drink Cups (#5)	0.50	0.30	0.10	1.10	0.30	0.00
22	Other PP Non-bottle Rigids (#5)	0.30	0.45	0.70	0.00	0.60	0.70
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.00	0.30	0.35	0.00	0.40	0.00
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.10	0.10	0.15	0.40	0.05	0.05
25	Expanded Polystyrene Foam	1.00	2.15	0.95	3.40	0.40	0.75
26	Plastic Bags and Clean Film	1.40	1.00	0.55	0.60	0.30	0.80
27	Plastic Garbage Bags	4.75	9.00	4.75	8.30	3.30	5.50
28	Other Plastic Film/Flexibles	7.85	9.30	5.20	6.40	4.10	7.55
29	Bulky Rigid Plastics	1.55	0.30	2.05	0.00	0.00	1.90
30	Unacceptable Rigid Plastics	3.85	3.65	7.85	0.00	5.75	3.10
31	Tin/Steel Cans	2.00	2.50	0.95	1.80	1.75	1.55
32	Aluminum Cans	1.25	1.15	0.90	1.40	1.15	1.35
33	Aluminum Foil and Trays	0.55	0.90	0.10	0.40	0.15	0.75
34	Scrap Metals	1.80	0.80	3.20	3.75	1.60	2.70
35	Glass Bottles and Jars	5.50	12.95	7.40	3.05	5.40	0.95
36	Unacceptable Glass, Ceramics, and Porcelain	0.00	0.00	1.10	0.00	0.20	0.00
37	Food Waste	48.05	67.25	68.15	50.60	57.95	51.00
38	Yard Waste	0.50	2.20	6.35	0.60	0.40	0.50
39	Textiles and Shoes	7.05	6.50	3.85	8.40	11.70	12.50
40	Construction and Demolition Waste	34.20	2.30	7.05	21.00	10.00	13.05
41	Hazardous / Special Waste	0.00	0.00	0.00	0.00	0.00	0.00
42	Batteries	0.00	0.00	0.15	0.00	0.00	0.35
43	Sharps	0.10	0.05	0.00	0.10	0.00	0.00
44	E-waste & Small Appliances	1.25	0.90	0.55	0.20	25.50	1.00
45	Bulky Items	0.00	0.00	0.00	0.00	0.00	0.00
49	Disposable Diapers	1.65	16.25	9.30	7.35	13.90	3.40
50	Other Contaminants	18.15	18.25	42.55	27.55	24.10	23.55
51	Liquids	6.70	2.40	1.80	2.05	1.25	4.50
52	Grit	0.00	0.00	0.00	0.00	0.00	5.95
	Totals	202.00	213.20	205.75	211.10	214.70	205.35

Note: Columns may not appear to correctly sum due to rounding.

Table D-2: Trash Samples (pounds) - Continued

Load Information		Resi: Mon, Route #4, Truck #5126	Resi: Mon, Route #2, Truck #4979	Resi: Mon, Route #5, Truck #4981	Resi: Tue, Route #1, Truck #4978	Resi: Tue, Route #3, Truck #5125	Resi: Tue, Route #5, Truck #4981
Material Categories	sample #	7	8	9	10	11	12
1	Corrugated Cardboard	5.70	5.30	9.20	1.50	3.10	4.15
3	Newspapers, Magazines, and Catalogs	1.45	2.70	6.55	2.00	4.05	0.65
4	Mixed Paper	10.95	15.40	12.35	8.85	13.10	11.15
6	Aseptic Boxes and Gable Top Cartons	0.45	0.75	0.65	0.70	0.60	0.50
7	Compostable Paper	11.25	6.40	6.90	13.25	11.05	7.50
8	Non-recyclable Paper	5.50	13.55	6.95	8.55	15.40	4.65
9	PET Bottles, Jugs, Jars – Clear (#1)	3.45	0.00	4.15	4.50	3.45	5.15
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.30	1.55	0.00	0.25	0.30	0.65
11	PET Clamshells (#1)	0.10	0.00	0.70	0.70	0.70	0.10
12	PET Drink Cups (#1)	0.10	0.00	0.00	0.35	0.00	0.00
13	Other PET Non-bottle Rigids - Clear (#1)	1.15	0.25	0.30	0.50	0.45	0.50
14	Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.00	0.10	0.10	0.10	0.45	0.00
15	Natural HDPE Bottles (#2)	1.30	0.05	0.00	0.75	1.35	0.70
16	Colored HDPE Bottles (#2)	0.80	0.25	1.00	0.50	0.75	1.20
17	Non-bottle HDPE Containers (#2)	0.00	0.65	0.00	0.35	0.00	0.00
18	PP Bottles, Jars, Jugs (#5)	0.15	0.75	0.10	0.00	0.20	0.45
19	PP Clamshells (#5)	0.00	0.50	0.35	0.05	0.10	0.10
20	PP Tubs (#5)	1.00	1.10	0.40	1.50	1.50	0.45
21	PP Drink Cups (#5)	0.25	0.30	0.20	0.05	0.30	0.55
22	Other PP Non-bottle Rigids (#5)	0.75	0.35	0.40	0.35	0.60	1.15
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.40	0.05	0.15	0.05	0.20	0.25
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.05	0.10	0.10	0.05	0.05	0.50
25	Expanded Polystyrene Foam	0.75	1.15	1.10	1.55	1.15	2.85
26	Plastic Bags and Clean Film	0.90	1.65	0.45	1.95	1.20	1.60
27	Plastic Garbage Bags	5.60	3.10	4.35	4.65	4.40	6.85
28	Other Plastic Film/Flexibles	7.45	6.40	5.50	5.70	6.55	4.40
29	Bulky Rigid Plastics	0.00	2.70	1.95	0.00	0.00	0.00
30	Unacceptable Rigid Plastics	4.10	4.50	7.30	5.60	2.80	7.60
31	Tin/Steel Cans	3.10	3.20	0.70	2.30	1.30	4.70
32	Aluminum Cans	0.70	1.25	0.75	0.95	0.60	2.00
33	Aluminum Foil and Trays	0.70	0.70	1.05	1.55	0.55	1.55
34	Scrap Metals	0.70	0.00	13.40	0.00	1.45	4.70
35	Glass Bottles and Jars	6.65	10.05	3.15	5.50	3.55	7.65
36	Unacceptable Glass, Ceramics, and Porcelain	2.80	0.90	1.75	1.60	1.30	0.85
37	Food Waste	55.60	68.70	52.10	49.10	51.75	83.90
38	Yard Waste	14.85	9.65	0.80	0.20	0.85	0.00
39	Textiles and Shoes	8.40	11.90	5.65	8.75	6.60	8.85
40	Construction and Demolition Waste	0.65	3.15	0.70	28.15	0.85	7.95
41	Hazardous / Special Waste	0.00	0.00	0.00	0.55	0.00	0.00
42	Batteries	2.25	0.00	0.15	2.40	0.10	0.10
43	Sharps	0.00	0.00	0.00	2.00	0.00	0.10
44	E-waste & Small Appliances	0.00	0.00	0.35	0.00	42.20	0.00
45	Bulky Items	0.00	0.00	0.00	0.00	0.00	0.00
49	Disposable Diapers	3.25	12.30	27.70	13.30	5.10	7.65
50	Other Contaminants	52.20	17.20	26.00	24.15	14.45	15.25
51	Liquids	4.00	0.00	0.40	1.90	4.90	2.65
52	Grit	0.00	2.20	0.00	0.00	0.00	0.00
	Totals	219.75	210.80	205.85	206.75	209.35	211.55

Note: Columns may not appear to correctly sum due to rounding.

Table D-2: Trash Samples (pounds) - Continued

Load Information		Resi: Tue, Route #7, Truck #4980	Resi: Tue, Route #6, Truck #5127	Resi: Thu, Route #2, Truck #4979	Resi: Thu, Route #3, Truck #5125	Resi: Thu, Route #4, Truck #5126	Resi: Thu, Route #7, Truck #4980
Material Categories	sample #	13	14	15	16	17	18
1	Corrugated Cardboard	8.05	1.65	1.70	1.30	5.90	0.35
3	Newspapers, Magazines, and Catalogs	2.80	3.95	10.25	0.65	1.65	0.30
4	Mixed Paper	19.00	7.95	19.55	8.40	10.95	5.70
6	Aseptic Boxes and Gable Top Cartons	0.95	0.60	0.10	0.20	0.40	0.45
7	Compostable Paper	13.55	6.10	7.65	10.30	10.10	11.10
8	Non-recyclable Paper	5.35	0.90	5.75	6.00	8.35	2.60
9	PET Bottles, Jugs, Jars – Clear (#1)	8.70	1.65	2.30	3.20	3.45	0.90
10	PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.40	0.00	0.00	0.00	0.20	0.00
11	PET Clamshells (#1)	0.90	0.10	0.25	0.55	0.40	0.35
12	PET Drink Cups (#1)	0.00	0.00	0.00	0.00	0.00	0.15
13	Other PET Non-bottle Rigids - Clear (#1)	1.65	0.10	0.40	0.55	0.35	0.50
14	Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.00	0.05	0.20	0.20	0.00	0.60
15	Natural HDPE Bottles (#2)	0.00	0.45	0.60	0.95	0.40	0.25
16	Colored HDPE Bottles (#2)	0.00	0.35	0.05	1.30	0.20	0.65
17	Non-bottle HDPE Containers (#2)	0.00	0.00	0.00	0.00	0.50	0.00
18	PP Bottles, Jars, Jugs (#5)	0.05	0.00	0.05	0.15	0.25	0.15
19	PP Clamshells (#5)	0.00	0.00	0.35	0.15	0.00	0.30
20	PP Tubs (#5)	0.80	0.40	0.30	1.25	1.35	0.45
21	PP Drink Cups (#5)	0.70	0.00	0.20	0.90	0.25	0.00
22	Other PP Non-bottle Rigids (#5)	0.15	0.45	0.35	0.50	0.55	0.10
23	Other Plastic Drink Cups (#3, #4, #6, #7)	0.35	0.00	0.05	0.05	0.35	0.10
24	Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.10	0.00	0.00	0.00	0.40	0.25
25	Expanded Polystyrene Foam	1.70	1.00	1.20	1.80	1.10	0.95
26	Plastic Bags and Clean Film	1.50	0.60	0.80	1.10	1.35	0.35
27	Plastic Garbage Bags	4.50	3.40	5.05	6.05	6.35	4.25
28	Other Plastic Film/Flexibles	4.55	3.05	4.10	5.80	6.45	5.50
29	Bulky Rigid Plastics	0.00	0.00	0.00	0.00	0.00	1.40
30	Unacceptable Rigid Plastics	1.65	1.75	3.90	2.90	2.15	2.50
31	Tin/Steel Cans	2.90	1.75	2.20	3.75	2.35	0.95
32	Aluminum Cans	2.05	0.80	1.80	1.85	1.00	1.35
33	Aluminum Foil and Trays	0.10	0.20	0.60	0.30	0.70	0.60
34	Scrap Metals	2.70	1.85	5.45	0.95	0.30	1.90
35	Glass Bottles and Jars	10.65	6.25	3.85	5.50	9.55	4.25
36	Unacceptable Glass, Ceramics, and Porcelain	2.45	0.35	0.00	0.00	0.15	0.45
37	Food Waste	46.95	47.15	92.00	66.80	40.25	52.70
38	Yard Waste	23.10	25.70	0.25	23.75	58.20	34.25
39	Textiles and Shoes	7.05	8.55	2.50	10.80	3.15	6.55
40	Construction and Demolition Waste	11.90	10.55	4.00	19.30	12.40	41.45
41	Hazardous / Special Waste	0.00	0.00	0.00	0.00	0.00	3.25
42	Batteries	0.10	0.00	0.00	0.25	11.50	0.00
43	Sharps	0.10	0.00	0.00	0.10	0.00	0.00
44	E-waste & Small Appliances	3.70	35.40	3.15	2.25	5.80	0.25
45	Bulky Items	0.00	0.00	0.00	9.10	0.00	13.55
49	Disposable Diapers	12.20	3.70	16.05	12.80	7.45	4.15
50	Other Contaminants	14.35	24.10	3.45	15.85	23.40	17.35
51	Liquids	3.75	0.00	4.80	4.80	0.90	0.00
52	Grit	2.10	3.45	0.00	0.00	0.00	0.00
	Totals	223.55	204.30	205.25	232.40	240.50	223.20

Note: Columns may not appear to correctly sum due to rounding.

ATTACHMENT E: DETAILED GENERATION RATE RESULTS

Table E-1: Residential Recycling Generation (pounds/household/year)

Material Category	Monday	Tuesday	Thursday	Friday	Citywide Resi	90% Confidence Interval	
						Lower Bounds	Upper Bounds
Corrugated Cardboard	114.70	97.54	71.94	95.54	94.95	74.27	115.63
Newspapers, Magazines, and Catalogs	25.79	18.53	22.88	22.65	22.52	19.00	26.03
Mixed Paper	68.88	44.11	46.46	53.61	53.41	40.27	66.56
Program Recyclable Fiber	209.37	160.18	141.29	171.81	170.89	137.10	204.67
PET Bottles, Jugs, Jars – Clear (#1)	18.99	19.58	20.56	20.28	19.85	19.02	20.68
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.87	0.75	0.50	0.90	0.75	0.54	0.97
PET Clamshells (#1)	3.95	1.45	3.20	1.24	2.48	0.92	4.04
PET Drink Cups (#1)	0.02	0.08	0.04	0.05	0.05	0.02	0.08
Other PET Non-bottle Rigid - Clear (#1)	0.33	2.15	0.92	1.05	1.10	0.21	1.99
Other PET Non-bottle Rigid - Op./ Pig. (#1)	0.20	1.46	0.03	0.29	0.48	-0.29	1.26
Natural HDPE Bottles (#2)	5.19	6.54	2.87	6.25	5.19	3.23	7.15
Colored HDPE Bottles (#2)	5.42	3.32	4.66	6.86	5.07	3.33	6.81
Non-bottle HDPE Containers (#2)	1.14	0.42	0.17	0.44	0.55	0.06	1.03
PP Bottles, Jars, Jugs (#5)	0.41	0.35	0.27	0.42	0.37	0.29	0.45
PP Clamshells (#5)	0.05	0.17	0.69	0.64	0.39	0.00	0.77
PP Tubs (#5)	1.14	1.54	1.52	1.99	1.55	1.14	1.95
PP Drink Cups (#5)	0.44	0.65	0.59	0.77	0.61	0.45	0.77
Other PP Non-bottle Rigid (#5)	0.38	0.14	0.08	0.41	0.25	0.05	0.45
Other Plastic Drink Cups (#3, #4, #6, #7)	0.23	0.24	0.22	0.19	0.22	0.20	0.25
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.06	0.42	0.31	0.04	0.20	-0.02	0.42
Bulky Rigid Plastics	5.29	0.30	0.35	2.22	2.07	-0.69	4.83
Tin/Steel Cans	7.23	7.04	7.00	5.36	6.66	5.64	7.69
Aluminum Cans	5.28	10.22	7.88	8.92	8.03	5.57	10.50
Glass Bottles and Jars	50.20	54.25	77.37	42.46	56.17	38.49	73.84
Program Recyclable Containers	106.81	111.09	129.23	100.77	112.05	97.62	126.47
Wet Cardboard	3.76	5.84	7.57	5.70	5.71	3.88	7.54
Wet Paper	2.36	11.19	19.53	8.69	10.42	2.06	18.78
Aseptic Boxes and Gable Top Cartons	2.15	1.80	3.01	2.47	2.36	1.76	2.96
Compostable Paper	0.80	3.69	2.62	3.18	2.55	1.06	4.03
Non-recyclable Paper	1.60	2.55	2.91	1.69	2.19	1.43	2.95
Expanded Polystyrene Foam	0.93	1.00	0.73	1.10	0.94	0.76	1.12
Plastic Bags and Clean Film	1.95	2.31	2.47	6.86	3.38	0.66	6.11
Plastic Garbage Bags	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Plastic Film/Flexibles	4.88	4.11	3.72	4.21	4.23	3.67	4.80
Unacceptable Rigid Plastics	6.59	7.74	5.93	6.10	6.58	5.62	7.54
Aluminum Foil and Trays	0.14	0.26	0.24	0.25	0.22	0.16	0.29
Scrap Metals	1.30	1.36	1.44	3.27	1.84	0.71	2.96
Unacceptable Glass, Ceramics, and Porcelain	0.62	0.13	1.65	0.23	0.67	-0.15	1.49
Food Waste	0.80	9.63	8.72	6.09	6.26	1.59	10.93
Yard Waste	0.68	3.57	0.00	11.38	3.85	-2.28	9.99
Textiles and Shoes	5.99	10.87	4.32	7.92	7.23	3.92	10.54
Construction and Demolition Waste	8.53	43.35	6.88	1.31	14.77	-7.76	37.29
Hazardous/Special Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.06	0.05	0.02	0.03	0.00	0.06
Sharps	0.00	0.00	0.00	0.04	0.01	-0.01	0.03
E-waste & Small Appliances	19.62	0.66	0.07	6.00	6.70	-4.00	17.39
Bulky Items	0.00	0.00	3.18	0.00	0.81	-1.06	2.68
Tanglers	0.27	0.15	0.00	0.48	0.22	-0.01	0.46
Bagged Recyclables	6.50	14.44	6.44	3.59	7.69	2.20	13.18
Bagged Waste	5.41	19.87	13.99	33.73	18.09	4.09	32.10
Disposable Diapers	0.88	2.72	2.36	2.57	2.12	1.12	3.12
Other Contaminants	9.90	17.66	21.41	9.80	14.68	7.86	21.50
Grit	14.66	12.87	11.20	7.82	11.66	8.23	15.09
Contaminants	100.32	177.82	130.44	134.51	135.20	97.65	172.75
Total	416.50	449.09	400.96	407.09	418.13	392.92	443.35

Note: Columns may not appear to correctly sum due to rounding.

Table E-2: Residential Trash Generation (pounds/household/year)

Material Category	Monday	Tuesday	Thursday	Friday	Citywide Resi	90% Confidence Interval	
						Lower Bounds	Upper Bounds
Corrugated Cardboard	43.4	31.5	14.4	40.1	32.0	16.7	47.3
Newspapers, Magazines, and Catalogs	23.6	24.5	22.2	10.2	20.3	12.5	28.2
Mixed Paper	92.2	103.9	73.4	110.4	94.3	75.1	113.4
Program Recyclable Fiber	159.1	159.9	110.0	160.6	146.6	117.2	176.0
PET Bottles, Jugs, Jars – Clear (#1)	20.9	39.5	15.7	33.5	27.0	14.1	39.9
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	3.0	2.7	0.3	0.9	1.7	0.2	3.3
PET Clamshells (#1)	2.8	4.3	2.5	4.1	3.4	2.3	4.4
PET Drink Cups (#1)	0.5	0.5	0.2	0.0	0.3	0.0	0.6
Other PET Non-bottle Rigid - Clear (#1)	3.3	5.4	2.9	6.7	4.5	2.4	6.6
Other PET Non-bottle Rigid – Op./ Pig. (#1)	1.0	1.1	1.6	1.9	1.4	0.9	1.9
Natural HDPE Bottles (#2)	3.2	5.7	3.6	4.0	4.1	2.8	5.4
Colored HDPE Bottles (#2)	7.6	4.8	3.5	6.3	5.5	3.4	7.6
Non-bottle HDPE Containers (#2)	1.5	0.5	0.7	0.0	0.7	0.0	1.5
PP Bottles, Jars, Jugs (#5)	1.4	1.2	0.9	0.3	1.0	0.4	1.5
PP Clamshells (#5)	1.2	0.4	1.3	3.3	1.5	0.1	3.0
PP Tubs (#5)	5.6	8.0	5.2	18.9	9.1	1.6	16.7
PP Drink Cups (#5)	1.5	2.7	2.2	4.2	2.6	1.3	4.0
Other PP Non-bottle Rigid (#5)	4.2	4.7	2.4	3.1	3.6	2.4	4.8
Other Plastic Drink Cups (#3, #4, #6, #7)	1.5	1.4	0.8	1.4	1.3	0.9	1.6
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.5	1.1	1.0	1.6	1.0	0.5	1.5
Bulky Rigid Plastics	9.7	0.0	2.2	8.5	5.0	-0.6	10.6
Tin/Steel Cans	14.8	21.9	14.9	15.7	16.8	12.8	20.8
Aluminum Cans	7.8	10.8	9.7	10.1	9.6	8.0	11.1
Glass Bottles and Jars	37.6	57.9	36.4	62.7	48.0	32.0	64.1
Program Recyclable Containers	129.6	174.6	108.0	187.4	148.3	146.2	150.3
Compostable Paper	83.8	88.2	62.3	124.1	88.4	58.3	118.6
Food Waste	423.4	481.2	412.4	502.7	453.0	401.4	504.6
Yard Waste	35.5	93.0	177.4	20.4	84.0	0.3	167.7
Potentially Compostable Materials	542.7	662.3	652.1	647.2	625.4	623.3	627.4
Aseptic Boxes and Gable Top Cartons	4.0	5.8	1.8	5.1	4.1	2.0	6.2
Non-Recyclable Paper	73.8	60.2	36.2	53.1	55.7	37.3	74.1
Expanded Polystyrene Foam	6.1	14.0	8.1	15.8	10.8	5.4	16.3
Plastic Bags and Clean Film	5.9	11.5	5.7	7.8	7.7	4.5	10.9
Plastic Garbage Bags	32.6	40.8	34.7	57.3	40.8	27.7	54.0
Other Plastic Film/Flexibles	45.8	41.9	34.7	62.3	45.7	31.9	59.4
Unacceptable Rigid Plastics	37.5	32.3	18.7	33.3	30.3	20.6	39.9
Aluminum Foil and Trays	5.0	6.5	3.5	4.3	4.8	3.3	6.3
Scrap Metals	29.6	18.5	14.6	20.1	20.7	13.2	28.2
Unacceptable Glass, Ceramics, and Porcelain	8.1	11.1	0.9	2.3	5.6	0.0	11.2
Textiles and Shoes	74.5	69.2	36.6	55.5	58.8	38.8	78.7
Construction and Demolition Waste	42.6	99.0	120.6	141.5	100.0	49.9	150.1
Hazardous / Special Waste	0.0	0.8	5.0	0.0	1.5	-1.3	4.4
Batteries	3.8	4.2	17.4	0.3	6.7	-2.1	15.5
Sharps	0.0	3.4	0.2	0.5	1.0	-0.9	2.9
E-Waste & Small Appliances	43.3	157.6	18.2	6.4	56.4	-25.1	137.9
Bulky Items	0.0	0.0	35.6	0.0	9.5	-11.5	30.4
Disposable Diapers	93.6	70.2	66.6	73.5	76.0	61.8	90.2
All Other Garbage	210.8	161.8	93.0	226.3	170.9	100.3	241.5
Liquids	15.0	22.6	17.6	28.7	20.7	13.6	27.8
Grit	12.1	10.6	0.0	0.0	5.7	-2.0	13.5
All Other Materials	744.0	842.0	569.6	794.3	733.4	593.6	873.3
Total	1,575.4	1,838.8	1,439.7	1,789.5	1,653.7	1,434.1	1,873.2

Note: Columns may not appear to correctly sum due to rounding.

ATTACHMENT F: DETAILED RECYCLABLES GENERATION AND CAPTURE RESULTS

Table F-1: Program Recyclables Generation and Capture Rate – Citywide Residential

Material Category	Generation (lbs/HH/year)			Capture Rate
	Recycling	Trash	Total	
Corrugated Cardboard	94.95	31.99	126.94	74.8%
Newspapers, Magazines, and Catalogs	22.52	20.35	42.87	52.5%
Mixed Paper	53.41	94.25	147.67	36.2%
Program Recyclable Paper	170.89	146.59	317.47	53.8%
PET Bottles, Jugs, Jars – Clear (#1)	19.85	27.02	46.87	42.4%
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.75	1.72	2.47	30.5%
PET Clamshells (#1)	2.48	3.35	5.84	42.5%
PET Drink Cups (#1)	0.05	0.31	0.36	13.3%
Other PET Non-bottle Rigids - Clear (#1)	1.10	4.50	5.59	19.7%
Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.48	1.40	1.88	25.7%
Natural HDPE Bottles (#2)	5.19	4.11	9.30	55.8%
Colored HDPE Bottles (#2)	5.07	5.51	10.59	47.9%
Non-bottle HDPE Containers (#2)	0.55	0.72	1.26	43.2%
PP Bottles, Jars, Jugs (#5)	0.37	0.98	1.35	27.1%
PP Clamshells (#5)	0.39	1.53	1.92	20.3%
PP Tubs (#5)	1.55	9.13	10.68	14.5%
PP Drink Cups (#5)	0.61	2.61	3.22	18.9%
Other PP Non-bottle Rigids (#5)	0.25	3.59	3.84	6.6%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.22	1.28	1.50	14.7%
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.20	1.03	1.24	16.4%
Bulky Rigid Plastics	2.07	5.04	7.11	29.1%
Tin/Steel Cans	6.66	16.78	23.44	28.4%
Aluminum Cans	8.03	9.59	17.63	45.6%
Glass Bottles and Jars	56.17	48.05	104.21	53.9%
Program Recyclable Containers	112.05	148.26	260.30	43.0%
All Program Recyclables	282.93	294.84	577.78	49.0%

Note: Columns may not appear to correctly sum due to rounding.

Table F-2: Program Recyclables Generation and Capture Rate – Monday Residential

Material Category	Generation (lbs/HH/year)			Capture Rate
	Recycling	Trash	Total	
Corrugated Cardboard	114.70	43.41	158.11	72.5%
Newspapers, Magazines, and Catalogs	25.79	23.57	49.36	52.2%
Mixed Paper	68.88	92.16	161.04	42.8%
Program Recyclable Paper	209.37	159.14	368.52	56.8%
PET Bottles, Jugs, Jars – Clear (#1)	18.99	20.91	39.90	47.6%
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.87	3.00	3.87	22.4%
PET Clamshells (#1)	3.95	2.76	6.71	58.8%
PET Drink Cups (#1)	0.02	0.45	0.47	4.2%
Other PET Non-bottle Rigid - Clear (#1)	0.33	3.31	3.64	9.2%
Other PET Non-bottle Rigid – Op./ Pig. (#1)	0.20	1.00	1.20	16.6%
Natural HDPE Bottles (#2)	5.19	3.25	8.44	61.5%
Colored HDPE Bottles (#2)	5.42	7.57	12.99	41.7%
Non-bottle HDPE Containers (#2)	1.14	1.51	2.65	43.0%
PP Bottles, Jars, Jugs (#5)	0.41	1.44	1.85	22.3%
PP Clamshells (#5)	0.05	1.23	1.28	3.6%
PP Tubs (#5)	1.14	5.55	6.70	17.1%
PP Drink Cups (#5)	0.44	1.54	1.98	22.1%
Other PP Non-bottle Rigid (#5)	0.38	4.18	4.56	8.3%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.23	1.50	1.72	13.2%
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.06	0.52	0.58	9.6%
Bulky Rigid Plastics	5.29	9.70	14.99	35.3%
Tin/Steel Cans	7.23	14.78	22.01	32.9%
Aluminum Cans	5.28	7.77	13.05	40.4%
Glass Bottles and Jars	50.20	37.60	87.80	57.2%
Program Recyclable Containers	106.81	129.56	236.37	45.2%
All Program Recyclables	316.19	288.70	604.89	52.3%

Note: Columns may not appear to correctly sum due to rounding.

Table F-3: Program Recyclables Generation and Capture Rate – Tuesday Residential

Material Category	Generation (lbs/HH/year)			Capture Rate
	Recycling	Trash	Total	
Corrugated Cardboard	97.54	31.54	129.08	75.6%
Newspapers, Magazines, and Catalogs	18.53	24.45	42.98	43.1%
Mixed Paper	44.11	103.92	148.03	29.8%
Program Recyclable Paper	160.18	159.91	320.09	50.0%
PET Bottles, Jugs, Jars – Clear (#1)	19.58	39.50	59.08	33.1%
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.75	2.65	3.40	22.1%
PET Clamshells (#1)	1.45	4.26	5.71	25.4%
PET Drink Cups (#1)	0.08	0.54	0.62	13.4%
Other PET Non-bottle Rigids - Clear (#1)	2.15	5.37	7.52	28.6%
Other PET Non-bottle Rigids – Op./ Pig. (#1)	1.46	1.10	2.56	57.1%
Natural HDPE Bottles (#2)	6.54	5.72	12.26	53.3%
Colored HDPE Bottles (#2)	3.32	4.81	8.12	40.8%
Non-bottle HDPE Containers (#2)	0.42	0.54	0.96	44.1%
PP Bottles, Jars, Jugs (#5)	0.35	1.18	1.53	23.1%
PP Clamshells (#5)	0.17	0.42	0.60	29.0%
PP Tubs (#5)	1.54	7.99	9.53	16.2%
PP Drink Cups (#5)	0.65	2.68	3.33	19.4%
Other PP Non-bottle Rigids (#5)	0.14	4.67	4.81	2.9%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.24	1.43	1.68	14.5%
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.42	1.14	1.55	26.8%
Bulky Rigid Plastics	0.30	0.00	0.30	100.0%
Tin/Steel Cans	7.04	21.89	28.93	24.3%
Aluminum Cans	10.22	10.83	21.05	48.5%
Glass Bottles and Jars	54.25	57.87	112.12	48.4%
Program Recyclable Containers	111.09	174.59	285.68	38.9%
All Program Recyclables	271.27	334.50	605.77	44.8%

Note: Columns may not appear to correctly sum due to rounding.

Table F-4: Program Recyclables Generation and Capture Rate – Thursday Residential

Material Category	Generation (lbs/HH/year)			Capture Rate
	Recycling	Trash	Total	
Corrugated Cardboard	71.94	14.36	86.31	83.4%
Newspapers, Magazines, and Catalogs	22.88	22.24	45.13	50.7%
Mixed Paper	46.46	73.36	119.82	38.8%
Program Recyclable Paper	141.29	109.97	251.25	56.2%
PET Bottles, Jugs, Jars – Clear (#1)	20.56	15.72	36.28	56.7%
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.50	0.29	0.79	62.9%
PET Clamshells (#1)	3.20	2.46	5.66	56.5%
PET Drink Cups (#1)	0.04	0.23	0.27	14.2%
Other PET Non-bottle Rigid - Clear (#1)	0.92	2.89	3.81	24.1%
Other PET Non-bottle Rigid – Op./ Pig. (#1)	0.03	1.61	1.63	1.5%
Natural HDPE Bottles (#2)	2.87	3.57	6.44	44.6%
Colored HDPE Bottles (#2)	4.66	3.48	8.13	57.3%
Non-bottle HDPE Containers (#2)	0.17	0.74	0.91	18.6%
PP Bottles, Jars, Jugs (#5)	0.27	0.93	1.21	22.8%
PP Clamshells (#5)	0.69	1.33	2.02	34.3%
PP Tubs (#5)	1.52	5.23	6.75	22.6%
PP Drink Cups (#5)	0.59	2.17	2.76	21.3%
Other PP Non-bottle Rigid (#5)	0.08	2.39	2.47	3.1%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.22	0.84	1.06	20.8%
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.31	0.98	1.29	24.0%
Bulky Rigid Plastics	0.35	2.17	2.52	13.9%
Tin/Steel Cans	7.00	14.88	21.88	32.0%
Aluminum Cans	7.88	9.75	17.63	44.7%
Glass Bottles and Jars	77.37	36.36	113.73	68.0%
Program Recyclable Containers	129.23	108.02	237.25	54.5%
All Program Recyclables	270.52	217.98	488.50	55.4%

Note: Columns may not appear to correctly sum due to rounding.

Table F-5: Program Recyclables Generation and Capture Rate – Friday Residential

Material Category	Generation (lbs/HH/year)			Capture Rate
	Recycling	Trash	Total	
Corrugated Cardboard	95.54	40.06	135.60	70.5%
Newspapers, Magazines, and Catalogs	22.65	10.15	32.81	69.1%
Mixed Paper	53.61	110.36	163.98	32.7%
Program Recyclable Paper	171.81	160.57	332.38	51.7%
PET Bottles, Jugs, Jars – Clear (#1)	20.28	33.49	53.76	37.7%
PET Bottles, Jugs, Jars – Op./ Pig. (#1)	0.90	0.93	1.83	49.1%
PET Clamshells (#1)	1.24	4.08	5.32	23.3%
PET Drink Cups (#1)	0.05	0.00	0.05	100.0%
Other PET Non-bottle Rigids - Clear (#1)	1.05	6.74	7.79	13.4%
Other PET Non-bottle Rigids – Op./ Pig. (#1)	0.29	1.93	2.22	13.0%
Natural HDPE Bottles (#2)	6.25	3.96	10.21	61.2%
Colored HDPE Bottles (#2)	6.86	6.34	13.20	52.0%
Non-bottle HDPE Containers (#2)	0.44	0.00	0.44	100.0%
PP Bottles, Jars, Jugs (#5)	0.42	0.34	0.76	55.6%
PP Clamshells (#5)	0.64	3.29	3.94	16.4%
PP Tubs (#5)	1.99	18.88	20.87	9.5%
PP Drink Cups (#5)	0.77	4.23	5.00	15.3%
Other PP Non-bottle Rigids (#5)	0.41	3.14	3.56	11.6%
Other Plastic Drink Cups (#3, #4, #6, #7)	0.19	1.39	1.58	12.1%
Other Small Rigid Pack. Cont. (#3, #4, #6, #7)	0.04	1.57	1.61	2.6%
Bulky Rigid Plastics	2.22	8.55	10.77	20.6%
Tin/Steel Cans	5.36	15.71	21.08	25.4%
Aluminum Cans	8.92	10.11	19.03	46.9%
Glass Bottles and Jars	42.46	62.68	105.14	40.4%
Program Recyclable Containers	100.77	187.36	288.14	35.0%
All Program Recyclables	272.58	347.94	620.52	43.9%

Note: Columns may not appear to correctly sum due to rounding.