



# SIMS MUNICIPAL RECYCLING OF NEW YORK & NEW YORK CITY DEPARTMENT OF SANITATION

## 2013 WASTE CHARACTERIZATION STUDY FIELD PROCEDURES MANUAL AND SELECTED RESULTS

FINAL REPORT

March 27, 2014



## **MSW CONSULTANTS**

*MidAtlantic Solid Waste Consultants*

6225 Sawyer Road, New Market, MD 21774

11875 High Tech Avenue, Suite 150, Orlando, FL 32817

[www.mswconsultants.com](http://www.mswconsultants.com)

(301) 607-6428

(407) 380-8951



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### ACCEPTANCE FACILITIES

- ◆ Sims Metal Management, Bronx
- ◆ Varick Transfer Station, Brooklyn
- ◆ IWS Transfer Station, Jersey City
- ◆ Harlem River Yard, Manhattan
- ◆ Sims Metal Management, Claremont, Jersey City
- ◆ Review Transfer Station, Queens
- ◆ Staten Island Transfer Station, Staten Island

### NEW YORK DEPARTMENT OF SANITATION STAFF

- ◆ Bridget Anderson, Director, Recycling Unit
- ◆ George Best, District Superintendent, Bureau of Cleaning and Collections, DSNY
- ◆ Paul Brown, Deputy Chief, Bureau of Cleaning and Collections, DSNY
- ◆ Adam Conanan, Director, Fresh Kills Landfill
- ◆ Robert Lange, Director, Bureau of Waste Prevention, Reuse and Recycling
- ◆ Samantha MacBride, former Deputy Director, Recycling Unit (resigned)
- ◆ James Marinello, Supervisor, Bureau of Cleaning and Collections, DSNY
- ◆ Peter McKeon, Chief, Collection Operations, Bureau of Cleaning and Collections, DSNY
- ◆ Richard Perrotta, Supervisor, Bureau of Cleaning and Collections, DSNY
- ◆ Randy Rizzo, Supervisor, Bureau of Cleaning and Collections, DSNY

### SIMS MUNICIPAL RECYCLING OF NEW YORK STAFF

- ◆ Tom Outerbridge, General Manager
- ◆ Thomas Ferretti, Operations Manager
- ◆ Maite Quinn, Project Manager

This study would not have been successful without their ongoing cooperation.

*Prime Contractor*

### MidAtlantic Solid Waste Consultants, LLC

6225 Sawyer Road, New Market, MD 21774

11875 High Tech Avenue, Suite 150, Orlando, FL 32817

(301) 607-6428

(407) 380-8951

[www.mswconsultants.com](http://www.mswconsultants.com)

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# EXECUTIVE SUMMARY

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## ES 1. INTRODUCTION

New York City last conducted a comprehensive Waste Characterization Study (WCS) in 2005. Starting in September 2012, and concluding in May 2013, the New York City Department of Sanitation (DSNY) and Sims Municipal Recycling of New York (SMRNY) jointly conducted an update to the prior study. The 2013 Waste Characterization Study specifically sought to meet the following objectives:

- ◆ To update the characterization of Metal, Glass, Plastic and Carton (MGP)<sup>1</sup> Recyclables for use in updating the composition table used to calculate the value of MGP materials as specified in the processing contract between SMRNY and DSNY;
- ◆ To assess changes in the composition of designated MGP Recycling, designated Paper Recycling, and Refuse;
- ◆ To assess changes in Capture Rates for materials designated in MGP and Paper Recycling;
- ◆ To quantify the composition of Plastics discards in even greater detail than in the 2005 WCS; and
- ◆ To quantify the composition of Bottle, Can and Carton discards in even greater detail than in the 2005 WCS.

This report describes the planning, implementation, and results of the 2013 WCS.

## ES 2. SAMPLING PLAN

**Overview:** The 2013 WCS separately analyzed Refuse, MGP, and Paper, and was conducted over two seasonal data collection events in September 2012 and May 2013. Results were generated for each of the three streams individually, as well as for the aggregate of the three streams, which represented all Waste collected curbside by DSNY. Table ES-1 summarizes the sampling schedule and identifies which materials were analyzed each season. As shown, Refuse was analyzed in September 2012, Paper was analyzed in May 2013, and MGP was analyzed over both seasons.

**Table ES-1 Sampling Plan**

Data Collection Event	Refuse Samples	MGP Samples	Paper Samples	Total Samples
September 9-29, 2012	256	93	0	349
May 6-17, 2013	0	90	130	220
<b>Total</b>	<b>256</b>	<b>183</b>	<b>130</b>	<b>569</b>

**Random Sampling and Sample Distribution:** Samples were randomly selected from the universe of roughly 8,800 Refuse, MGP and Paper routes operated by DSNY at any given time. Samples were distributed across boroughs, districts, and sections in conformance with the DSNY route management system, and were also distributed across the six days of the week on which DSNY provides collection services. In the case of Refuse, which is collected more than once per week in many areas of the City,

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<sup>1</sup> This report maintains the acronym “MGP” in deference to historical precedence to when this stream included only Metal, Glass and Plastic but did not include Cartons.

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the sampling plan also allowed for appropriate allocation of samples on the first collection day of the week, which is known to be relatively heavier, and for the remaining collection days per week.

**Sample Weights:** Throughout the 2013 WCS, sample weight was targeted at 100 lbs for MGP, 100 lbs for Paper, and 200 lbs for Refuse. This weight target is consistent with both industry literature and also with prior WCS's performed by DSNY.

**Material Categories and Subsorts:** The list of material categories used in the 2013 WCS was intended to be consistent with prior WCS performed by DSNY. For summary reporting purposes throughout this report, 70 primary material categories are defined, and are split into nine material groups (Paper, Plastic, Organics, etc.). However, the 2013 WCS protocol included comprehensive subsorting of:

- ◆ **Bottles, Cans, Cartons and Film Pouches:** Each and every bottle, jar, can, aseptic or gable top carton, and juice pouch, whether made of Metal, Glass, Plastic, or Carton/Aseptic, was characterized into one of 15 product types (such as Soda, Beer, Wine, Dairy/Soy, etc.).
- ◆ **Plastic Resins:** Each and every rigid plastic item was sorted into one of 17 resin categories, including all numbered resins (#1 through #7), unlabeled, dual labeled, bioplastic and other labeled resin. All film plastic items were characterized as being either polyethylene (#2 or #4) or non-polyethylene.

As a result of the primary sorting and subsorting for the 2013 WCS, over 500 unique material categories were mathematically possible during this study. In practice, over 330 unique material categories were found in the Waste stream.

**Sampling Sites:** DSNY currently delivers Wastes to 18 different acceptance facilities across the five boroughs and in New Jersey. Table ES-2 summarizes the facilities that hosted sampling for one or both seasons of the 2013 WCS.

**Table ES-2 Host Facilities**

Facility Name	Location	Material(s) Sampled
Varick Transfer Station	123 Varick Avenue Brooklyn, NY 11237	Refuse
Review Transfer Station	38-50 Review Avenue Queens, NY 11101	Refuse
Staten Island Transfer Station	310 West Service Road Staten Island, NY 10314	Refuse
Visy Paper - Staten Island	4435 Victory Boulevard Staten Island, NY 10314	Paper
IWS Transfer Station	375 Route 1&9 South Jersey City, NJ 07306	Refuse
Sims Metal Management Transfer Station	850 Edgewater Road Bronx, NY 10474	MGP, Paper
Sims - Claremont	1 Linden Avenue East Jersey City, NJ 07305	MGP
Harlem River Yard	98 Lincoln Avenue Bronx NY 10454	Refuse

**Sorting Location:** DSNY made available the Plant 2 Building on its Fresh Kills Landfill on Staten Island, accessible through the West Service Road entrance, for use as the sort location. All samples were transported from the host acceptance facilities to this location to undergo the sorting protocol.

### ES 3. SAMPLING LOGISTICS

Obtaining samples of Refuse, MGP and Paper required extensive coordination with DSNY and each host facility throughout the study. Randomly selected routes were provided to DSNY in advance of the study. DSNY personnel were responsible for deploying each randomly selected load to one of the participating host facilities during the overnight shift. DSNY drivers were informed of the need to communicate with the Sample Managers upon arrival at the host facility to assure samples were obtained.

Each night of the study, Sample Managers were deployed to each host facility to obtain samples from the randomly selected loads, load the samples into carts for overnight storage and transportation, and deliver the samples to the sort location. As targeted loads arrived, the driver was interviewed to confirm contents of the load, and the vehicle was directed to tip the full load in the designated location. From the tipped load, the Sampling Manager directed a loader operator (provided by each host facility) to take a scoop of material (Refuse, MGP or Paper) from a randomly selected quadrant of the tipped load. Material from the loader bucket was systematically loaded into carts for transport and sorting. To the extent bulky items were contained in a scoop, the Sample Manager recorded the weight of the bulky item and the fraction of the bulky item judged to be within the sample. All data was recorded on sampling field data collection sheets and affixed to the cart (as well as recorded by the Sample Manager).

Table ES-3 summarizes the distribution of samples obtained by borough and by material stream.

**Table ES-3 2013 WCS Sample Summary**

Borough	Refuse Samples	MGP Samples	Paper Samples	Total Samples
Bronx	44	36	22	102
Brooklyn	68	36	28	132
Manhattan	43	37	26	106
Queens	57	38	32	127
Staten Island	44	36	22	102
<b>Total</b>	<b>256</b>	<b>183</b>	<b>130</b>	<b>569</b>

### ES 4. SORT LOGISTICS

Sorting was conducted by a dedicated sorting team comprised of professional supervisory staff, crew chiefs, and sorters. Field supervisors inventoried incoming samples from the prior night against the targeted routes to confirm adherence to the sampling plan. Individual samples were processed by sorting teams assembled to focus on Refuse, MGP or Paper, with appropriate modifications made for each material stream. Each sorting team processed each sample across a sequence of three sorting stations:

- ◆ The **Main Sort Table** was where the entire sample was first emptied and sorted into many final categories, with beverage containers and resins separated for further subsorting.
- ◆ The **Bottle/Can/Carton Subsort Table** received all bottles, cans, cartons and film pouches, which were then sorted into the different types of beverage and non-beverages products.

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- ◆ The **Resin Subsort Table** received the majority of plastics categories for further breakdown into specific resin codes and product types.

Each Main Sort Table and each Subsort Table was managed by a professional staff member serving as a Crew Chief, and each table had its own scale for weigh-outs. Crew Chiefs were responsible for manually recording weight data for sorted categories, and at the conclusion of the processing of each sample, completed field forms were collected by supervisor staff for scanning and data entry.

### ES 5. DATA RECORDING AND ANALYSIS

Each sample was entered into a custom database for quality assurance and analysis. Individual field forms were reviewed for accuracy and logical consistency with material category definitions. Macro queries were applied to test for outliers and miscodes.

The mean composition percentage for each material stream in each borough was calculated from the universe of samples. In addition to the mean composition, confidence intervals were calculated at a 90 percent level of confidence. The mean composition percentage and confidence intervals were propagated to Citywide aggregate according to the quantity of materials collected curbside by DSNY in FY2013, shown in Table ES-4.

**Table ES-4 Quantity of Wastes Collected Curbside in New York City, FY2013**

Borough	Refuse Tons	MGP Tons	Paper Tons	Total Tons of Waste
Manhattan	436,099	43,118	68,288	547,505
Bronx	429,181	28,361	28,728	486,270
Brooklyn South	816,295	60,069	84,705	961,069
Queens West	719,473	62,331	79,181	860,985
Staten Island	187,153	18,379	24,489	230,021
<b>Total</b>	<b>2,588,201</b>	<b>212,257</b>	<b>285,391</b>	<b>3,085,849</b>
<b>Percent of Total</b>	<b>83.9%</b>	<b>6.9%</b>	<b>9.2%</b>	<b>100%</b>

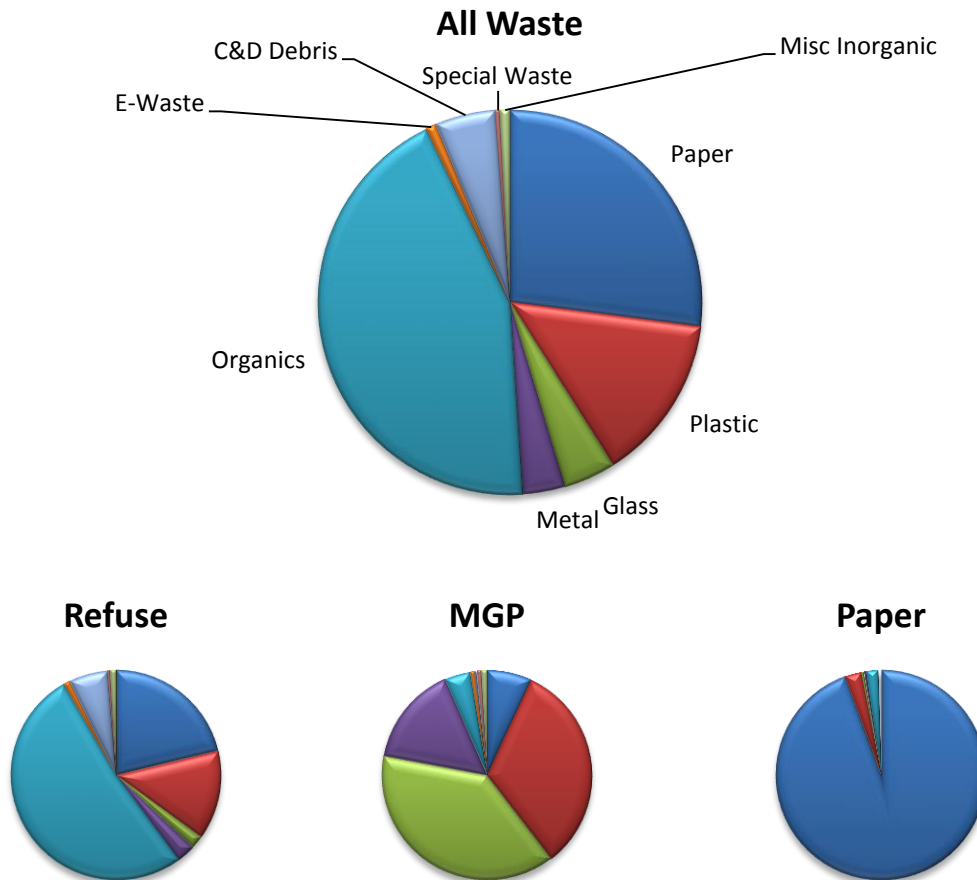
Selected results are shown on the following pages.

ES 6. RESULTS

ES 6.1. COMPOSITION

Figure ES-1 shows the breakdown of materials in Wastes, as well as for Refuse, MGP and Paper. The pie pieces in the Figure have been consistently color coded to allow for a quick visual comparison of the differences in absolute composition by material group. For example, Paper as a group makes up just over one quarter of the aggregate Waste stream as shown in the top pie chart in Figure ES-1. Not surprisingly, the vast majority of the Paper stream is, in fact, Paper, as shown in the smaller pie at lower right.

Figure ES-1 Composition by Material Group



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Figure ES-2 shows the proportion of each material group that was contained in each of the three streams collected by DSNY. For example, the vast majority of Organics are collected as Refuse, with only trace amounts in Paper or MGP. Conversely, more than half of the Glass collected by DSNY is contained in the MGP stream.

**Figure ES-2 Distribution of Material Groups in Refuse, MGP and Paper (Percent)**

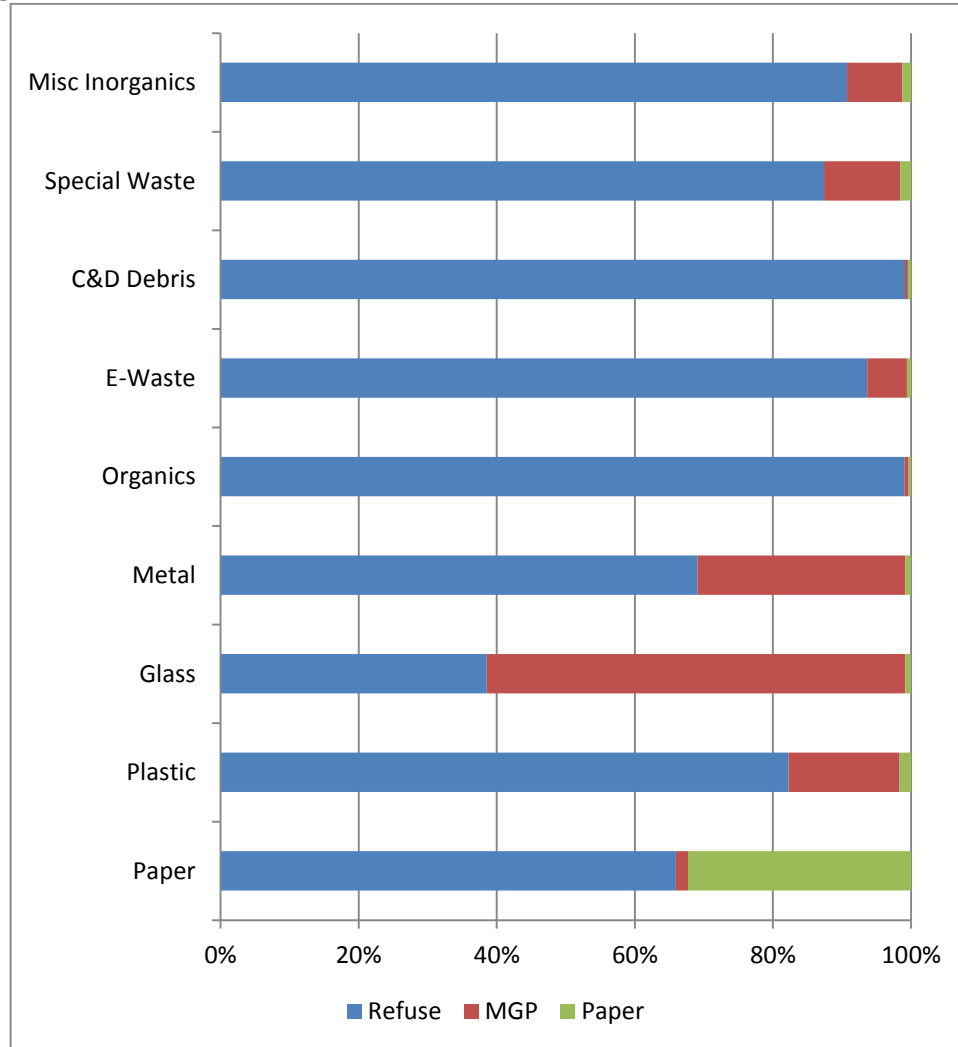
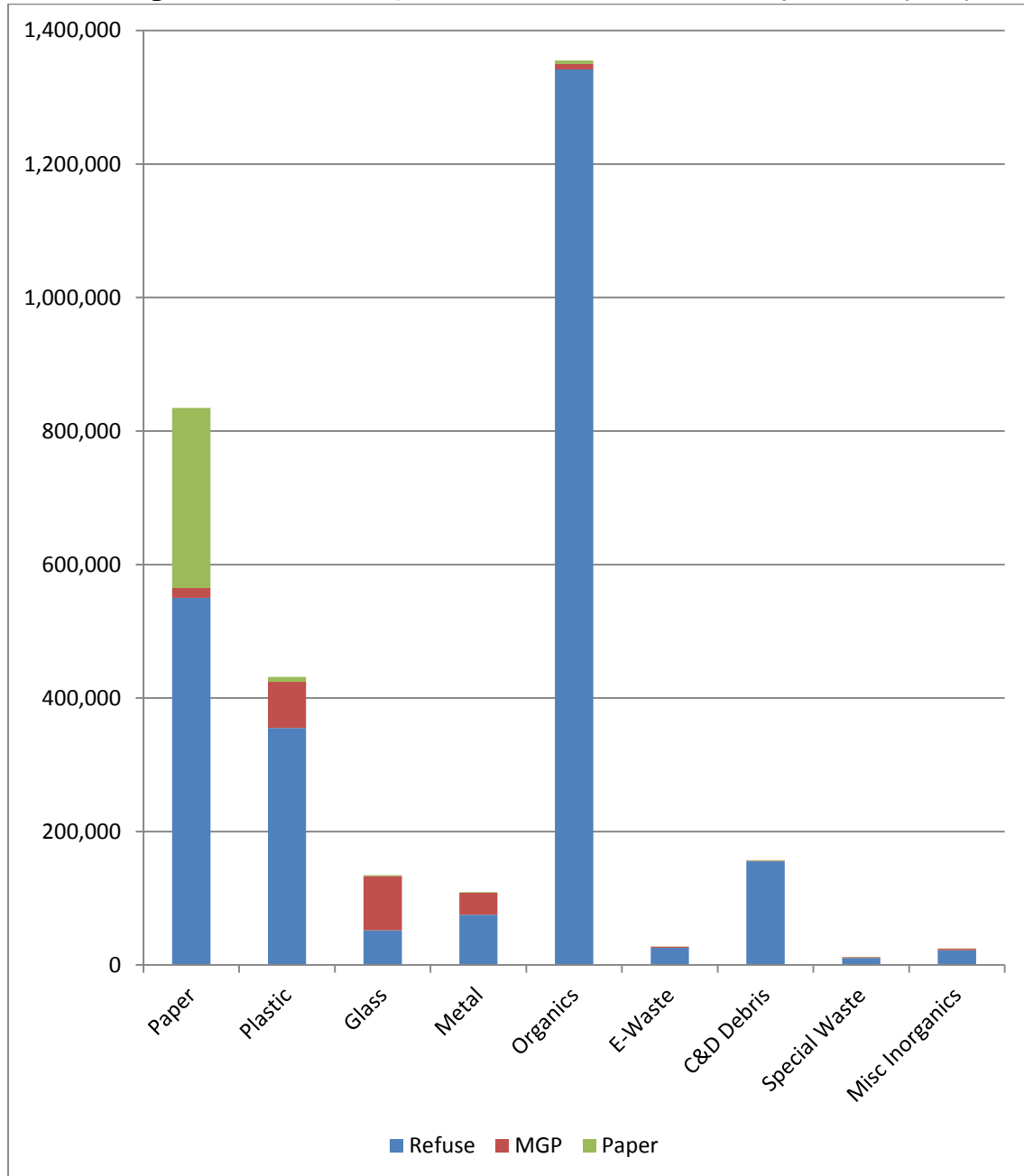




Figure ES-3 applied the composition estimates for Refuse, MGP and Paper to the actual quantity of each stream collected by DSNY to give perspective on the relative contribution to overall Waste from each stream and each material group. As shown, Organics are far and away the most prevalent material generated in the City, with almost all Organics being collected as Refuse. Paper is the second most prevalent material group, with significant fractions collected both as Paper and as Refuse.

**Figure ES-3 Absolute Quantities of Refuse, MGP and Paper, FY13 (Tons)**



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Table ES-5 provides the mean composition of Refuse, MGP, Paper, and aggregated Waste for the primary material categories included in the 2013 WCS. It is followed by Table ES-6, which shows the absolute quantities by stream and by primary material category.

**Table ES-5 Composition of Waste, Refuse, MGP and Paper**

<b>Material</b>	<b>Waste</b>	<b>Refuse</b>	<b>MGP</b>	<b>Paper</b>
<b>Paper</b>	<b>27.0%</b>	<b>21.3%</b>	<b>6.9%</b>	<b>94.5%</b>
Newspaper	3.3%	1.5%	0.7%	21.1%
Plain OCC/Kraft Paper	4.4%	1.5%	0.5%	33.7%
High Grade Paper	1.3%	0.9%	0.1%	5.9%
Mixed Low Grade Paper	9.3%	7.4%	2.4%	31.9%
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.5%	8.8%	0.5%	0.6%
Other Nonrecyclable Paper	0.9%	0.9%	0.5%	0.9%
Paper Beverage Cartons/Aseptic Boxes	0.4%	0.3%	2.3%	0.3%
<b>Plastic</b>	<b>14.0%</b>	<b>13.7%</b>	<b>32.7%</b>	<b>2.5%</b>
#1 PET Bottles	1.4%	0.9%	9.5%	0.2%
#2 HDPE Natural Bottles	0.5%	0.2%	4.5%	0.0%
#2 HDPE Pigmented Bottles	0.4%	0.2%	3.6%	0.0%
Other Plastic Bottles	0.1%	0.1%	0.8%	0.0%
Rigid Plastic Containers/Packaging	1.6%	1.5%	4.0%	0.2%
#6 EPS Containers/Packaging (including Single Use)	0.8%	0.9%	0.1%	0.2%
Film Plastic: Retail Bags/Sleeves	2.3%	2.7%	0.9%	0.2%
Film Plastic: Garbage Bags	2.5%	2.6%	3.2%	1.1%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%
Film Plastic: All Other Film	1.9%	2.2%	0.6%	0.3%
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.5%	0.5%	0.3%	0.0%
Appliances: Plastic	0.2%	0.3%	0.4%	0.0%
Bulk/Rigid Plastic	0.9%	0.8%	3.2%	0.1%
Other Plastics	0.8%	0.8%	1.5%	0.2%
<b>Glass</b>	<b>4.4%</b>	<b>2.0%</b>	<b>38.4%</b>	<b>0.4%</b>
Clear Container Glass	1.8%	0.9%	14.9%	0.1%
Green Container Glass	0.7%	0.2%	7.2%	0.0%
Brown Container Glass	0.4%	0.2%	3.0%	0.0%
Other Color Container Glass	0.0%	0.0%	0.3%	0.0%
Mixed Cullet	1.1%	0.4%	11.9%	0.1%
Other Glass	0.4%	0.3%	1.2%	0.1%
<b>Metal</b>	<b>3.5%</b>	<b>2.9%</b>	<b>15.5%</b>	<b>0.3%</b>
Aluminum Cans	0.3%	0.2%	1.2%	0.0%
Aluminum Foil/Containers	0.5%	0.5%	0.8%	0.0%
Other Aluminum	0.1%	0.1%	0.3%	0.0%
Other Non-Ferrous	0.1%	0.1%	0.4%	0.0%
Steel/Tin Food Cans	0.9%	0.5%	6.2%	0.1%
Empty Aerosol Cans	0.1%	0.1%	0.8%	0.0%
Other Ferrous	0.8%	0.7%	3.0%	0.1%
Mixed Metals	0.4%	0.5%	0.9%	0.0%

## EXECUTIVE SUMMARY

Material	Waste	Refuse	MGP	Paper
Appliances: Ferrous	0.3%	0.2%	1.6%	0.0%
Appliances: Non-Ferrous	0.0%	0.0%	0.3%	0.0%
<b>Organics</b>	<b>43.9%</b>	<b>51.8%</b>	<b>3.9%</b>	<b>1.8%</b>
Yard Waste	6.1%	7.2%	0.1%	0.0%
Food	18.0%	21.1%	2.6%	0.8%
Non-C&D Wood	3.5%	4.1%	0.1%	0.1%
Textiles: Non-Clothing	2.2%	2.7%	0.1%	0.1%
Textiles: Clothing	2.8%	3.4%	0.1%	0.1%
Carpet/Upholstery	1.2%	1.5%	0.0%	0.0%
Disposable Diapers/Sanitary Products	3.8%	4.5%	0.1%	0.1%
Animal By-Products	1.8%	2.1%	0.0%	0.0%
Shoes/Rubber/Leather	1.1%	1.2%	0.2%	0.3%
Fines	2.8%	3.3%	0.6%	0.2%
Miscellaneous Organics	0.6%	0.7%	0.1%	0.1%
<b>E-Waste</b>	<b>0.9%</b>	<b>1.0%</b>	<b>0.7%</b>	<b>0.1%</b>
Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.1%	0.2%	0.0%
Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.2%	0.2%	0.0%
Computer Monitors	0.0%	0.0%	0.0%	0.0%
Televisions	0.3%	0.3%	0.0%	0.0%
Other Computer Equipment	0.3%	0.3%	0.3%	0.0%
<b>Construction &amp; Demolition</b>	<b>5.1%</b>	<b>6.0%</b>	<b>0.3%</b>	<b>0.2%</b>
Untreated Dimensional Lumber/Pallets/Crates	0.8%	0.9%	0.0%	0.0%
Treated/Contaminated Wood	1.3%	1.5%	0.0%	0.1%
Other C&D Debris Not Elsewhere Classified	3.0%	3.6%	0.3%	0.2%
<b>Special Waste</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.1%</b>
Oil Filters	0.0%	0.0%	0.0%	0.0%
Antifreeze	0.0%	0.0%	0.0%	0.0%
Wet-Cell Batteries	0.0%	0.0%	0.0%	0.0%
Water-Based Adhesives/Glues	0.0%	0.0%	0.1%	0.0%
Latex Paint	0.1%	0.1%	0.3%	0.0%
Oil-Based Paint/Solvent	0.0%	0.0%	0.1%	0.0%
Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0.0%	0.0%
Dry-Cell Batteries	0.1%	0.1%	0.0%	0.0%
Fluorescent Tubes/CFLs	0.0%	0.0%	0.0%	0.0%
Mercury-Laden Wastes	0.0%	0.0%	0.0%	0.0%
Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0.0%	0.0%
Home Medical Products	0.1%	0.2%	0.1%	0.0%
Other Potentially Harmful Wastes	0.0%	0.1%	0.0%	0.0%
<b>Miscellaneous Inorganics</b>	<b>0.8%</b>	<b>0.9%</b>	<b>0.9%</b>	<b>0.1%</b>
<b>Totals</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>
<b>Sample Count</b>	<b>569</b>	<b>256</b>	<b>183</b>	<b>130</b>

# EXECUTIVE SUMMARY

Table ES-6 Quantity of Waste, Refuse, MGP and Paper

Material	Waste	Refuse	MGP	Paper
<b>Paper</b>	<b>834,438</b>	<b>550,172</b>	<b>14,617</b>	<b>269,649</b>
Newspaper	101,035	39,508	1,421	60,107
Plain OCC/Kraft Paper	136,039	38,623	1,109	96,307
High Grade Paper	40,977	23,792	219	16,966
Mixed Low Grade Paper	286,715	190,549	5,068	91,099
Paper: Compostable/Soiled/Waxed OCC/Kraft	230,253	227,541	987	1,726
Other Nonrecyclable Paper	26,558	23,124	962	2,472
Paper Beverage Cartons/Aseptic Boxes	12,861	7,037	4,852	973
<b>Plastic</b>	<b>431,580</b>	<b>355,033</b>	<b>69,323</b>	<b>7,224</b>
#1 PET Bottles	44,274	23,643	20,170	461
#2 HDPE Natural Bottles	15,749	6,085	9,515	149
#2 HDPE Pigmented Bottles	13,355	5,523	7,739	93
Other Plastic Bottles	3,960	2,170	1,745	44
Rigid Plastic Containers/Packaging	48,240	39,232	8,427	580
#6 EPS Containers/Packaging (including Single Use)	24,513	23,783	283	447
Film Plastic: Retail Bags/Sleeves	71,923	69,470	1,862	591
Film Plastic: Garbage Bags	77,341	67,522	6,804	3,014
Film Plastic: Food/Drink Pouches	1,045	1,016	25	4
Film Plastic: All Other Film	58,096	55,891	1,280	925
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	14,599	13,754	730	115
Appliances: Plastic	7,336	6,510	773	54
Bulk/Rigid Plastic	26,991	20,009	6,742	240
Other Plastics	24,159	20,425	3,227	508
<b>Glass</b>	<b>134,498</b>	<b>51,831</b>	<b>81,533</b>	<b>1,134</b>
Clear Container Glass	55,798	23,845	31,549	404
Green Container Glass	20,443	5,103	15,262	77
Brown Container Glass	11,370	4,943	6,329	98
Other Color Container Glass	968	327	641	0
Mixed Cullet	35,095	9,721	25,187	187
Other Glass	10,824	7,892	2,564	368
<b>Metal</b>	<b>109,288</b>	<b>75,515</b>	<b>32,885</b>	<b>889</b>
Aluminum Cans	8,745	6,116	2,491	138
Aluminum Foil/Containers	14,717	12,850	1,793	74
Other Aluminum	2,749	2,146	593	10
Other Non-Ferrous	3,528	2,554	931	43
Steel/Tin Food Cans	26,998	13,596	13,141	261
Empty Aerosol Cans	4,351	2,614	1,694	43
Other Ferrous	24,891	18,386	6,319	185
Mixed Metals	13,622	11,728	1,824	70
Appliances: Ferrous	8,584	5,162	3,395	26
Appliances: Non-Ferrous	1,104	362	704	37
<b>Organics</b>	<b>1,355,236</b>	<b>1,341,743</b>	<b>8,360</b>	<b>5,133</b>
Yard Waste	186,715	186,418	164	134

## EXECUTIVE SUMMARY

Material	Waste	Refuse	MGP	Paper
Food	554,903	547,316	5,438	2,149
Non-C&D Wood	107,188	106,650	294	245
Textiles: Non-Clothing	69,419	68,906	142	371
Textiles: Clothing	87,545	87,021	214	310
Carpet/Upholstery	37,905	37,905	1	0
Disposable Diapers/Sanitary Products	117,859	117,483	200	176
Animal By-Products	54,092	53,876	85	131
Shoes/Rubber/Leather	32,841	31,695	321	824
Fines	87,618	85,730	1,310	578
Miscellaneous Organics	19,150	18,743	191	215
<b>E-Waste</b>	<b>27,413</b>	<b>25,673</b>	<b>1,577</b>	<b>164</b>
Audio/Visual Equipment-TV Peripherals (Covered)	3,668	3,253	402	13
Audio/Visual Equipment-Other (Non-Covered)	6,545	5,977	439	129
Computer Monitors	78	66	12	0
Televisions	7,925	7,925	0	0
Other Computer Equipment	9,197	8,451	724	21
<b>Construction &amp; Demolition</b>	<b>156,876</b>	<b>155,502</b>	<b>674</b>	<b>700</b>
Untreated Dimensional Lumber/Pallets/Crates	23,487	23,439	32	17
Treated/Contaminated Wood	39,997	39,837	14	146
Other C&D Debris Not Elsewhere Classified	93,391	92,226	628	537
<b>Special Waste</b>	<b>12,054</b>	<b>10,536</b>	<b>1,326</b>	<b>192</b>
Oil Filters	3	3	0	1
Antifreeze	4	0	0	4
Wet-Cell Batteries	20	0	14	6
Water-Based Adhesives/Glues	211	61	123	28
Latex Paint	2,410	1,777	633	0
Oil-Based Paint/Solvent	271	43	227	0
Pesticides/Herbicides/Rodenticides	283	269	14	0
Dry-Cell Batteries	2,643	2,524	75	45
Fluorescent Tubes/CFLs	219	189	30	0
Mercury-Laden Wastes	52	52	0	0
Compressed Gas Cylinders/Fire Extinguishers	97	97	0	0
Home Medical Products	4,418	4,194	126	99
Other Potentially Harmful Wastes	1,423	1,328	85	10
<b>Miscellaneous Inorganics</b>	<b>24,467</b>	<b>22,197</b>	<b>1,962</b>	<b>307</b>
<b>Totals</b>	<b>3,085,849</b>	<b>2,588,201</b>	<b>212,257</b>	<b>285,391</b>

## EXECUTIVE SUMMARY

Table ES-7 provides the five most prevalent material categories in each stream, showing both percentage and absolute tonnage.

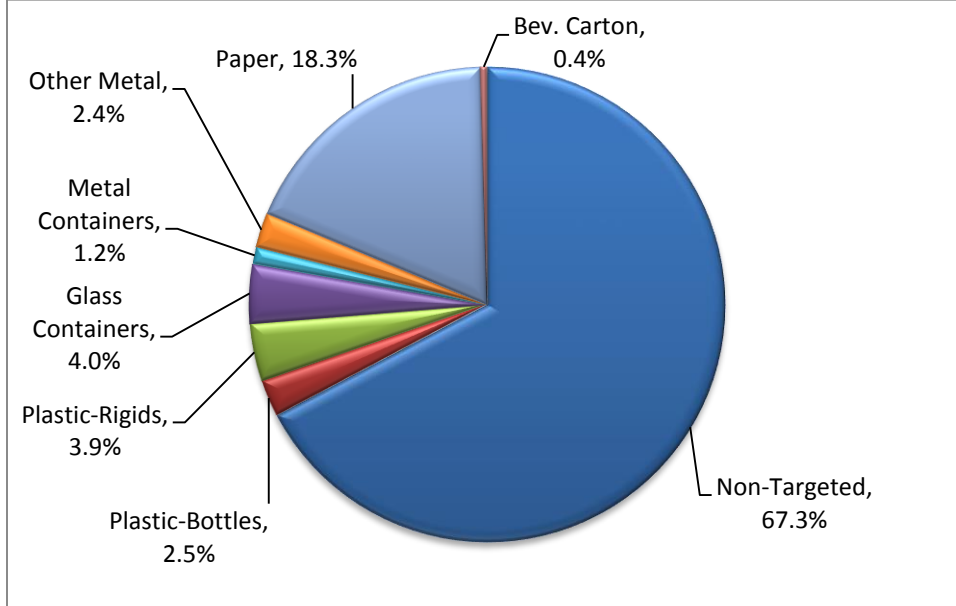
**Table ES-7 Top Five Most Prevalent Categories in Waste, Refuse, MGP and Paper**

<b>Stream</b>	<b>Material Category</b>	<b>Estimated Percent</b>	<b>Tons</b>
<b>Waste</b>	1 Food	18.0%	554,903
	2 Mixed Low Grade Paper	9.3%	286,715
	3 Paper: Compostable/Soiled/Waxed OCC/Kraft	7.5%	230,253
	4 Yard Waste	6.1%	186,715
	5 Plain OCC/Kraft Paper	4.4%	136,039
<b>Refuse</b>	1 Food	21.1%	547,316
	2 Paper: Compostable/Soiled/Waxed OCC/Kraft	8.8%	227,541
	3 Mixed Low Grade Paper	7.4%	190,549
	4 Yard Waste	7.2%	186,418
	5 Disposable Diapers/Sanitary Products	4.5%	117,483
<b>MGP</b>	1 Clear Container Glass	14.9%	31,549
	2 Mixed Cullet	11.9%	25,187
	3 #1 PET Bottles	9.5%	20,170
	4 #2 HDPE Bottles	8.1%	17,255
	5 Green Container Glass	7.2%	15,262
<b>Paper</b>	1 Plain OCC/Kraft Paper	33.7%	96,307
	2 Mixed Low Grade Paper	31.9%	91,099
	3 Newspaper	21.1%	60,107
	4 High Grade Paper	5.9%	16,966
	5 Film Plastic: Garbage Bags	1.1%	3,014

**ES 6.2. TARGETED RECYCLABLES**

Applying composition percentages from the 2013 WCS to DSNY’s FY13 curbside collected quantities yields just over 1.0 million tons of Recyclable Paper and MGP available for recycling in the City. Figure ES-4 identifies the major material groups of recyclables generated. As shown, over 67 percent of all Waste generated is not targeted in the City recycling program. Over 18 percent of the Waste stream is recoverable Paper, and 14.4 percent consists of Metals, Glass and Plastic (including Beverage Cartons). Note that the addition of All Rigid Plastics to the recycling program added 3.9 percent to the amount of MGP targeted for recycling.

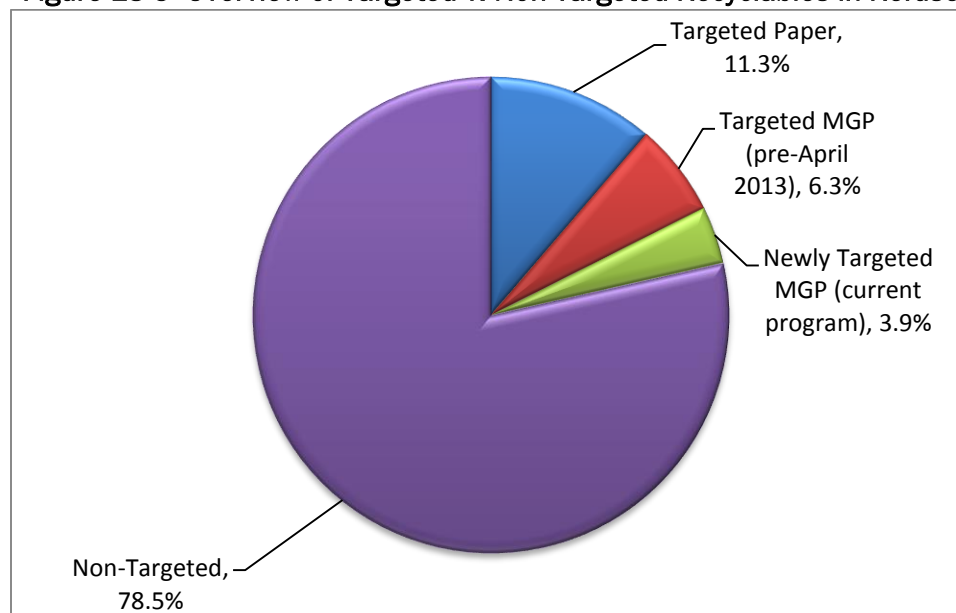
**Figure ES-4 Overview of Targeted vs. Non-Targeted Recyclables in Waste**



## EXECUTIVE SUMMARY

Over 550,000 tons of recyclable materials were found to still be disposed in the Refuse stream. These are materials that could be diverted to the City's recycling program based on current program definitions. Figure ES-5 shows the incidence of Targeted Paper and MGP (including All Rigid Plastics) that was found to still be disposed in the Refuse stream.

**Figure ES-5 Overview of Targeted v. Non-Targeted Recyclables in Refuse**



### ES 6.3. CAPTURE RATES

One of the primary objectives of this study was to calculate the Capture Rate for Targeted Recyclables. The Capture Rate is calculated using two different definitions of what materials are included in Targeted Recyclables. Prior to April 2013, only Plastic Bottles were targeted for recycling within the universe of plastics. Subsequent to April 2013, the City added All Rigid Plastics to the program. Expansion of the list of Targeted Recyclables had an adverse impact on the overall Capture Rate, which would be expected to increase over time as residents begin to change their behavior and shift Rigid Plastics from the Refuse stream to the MGP stream. Table ES-8 shows the overall Capture Rates for all Targeted Recyclables by material group using both definitions of Targeted MGP.

**Table ES-8 Capture Rates**

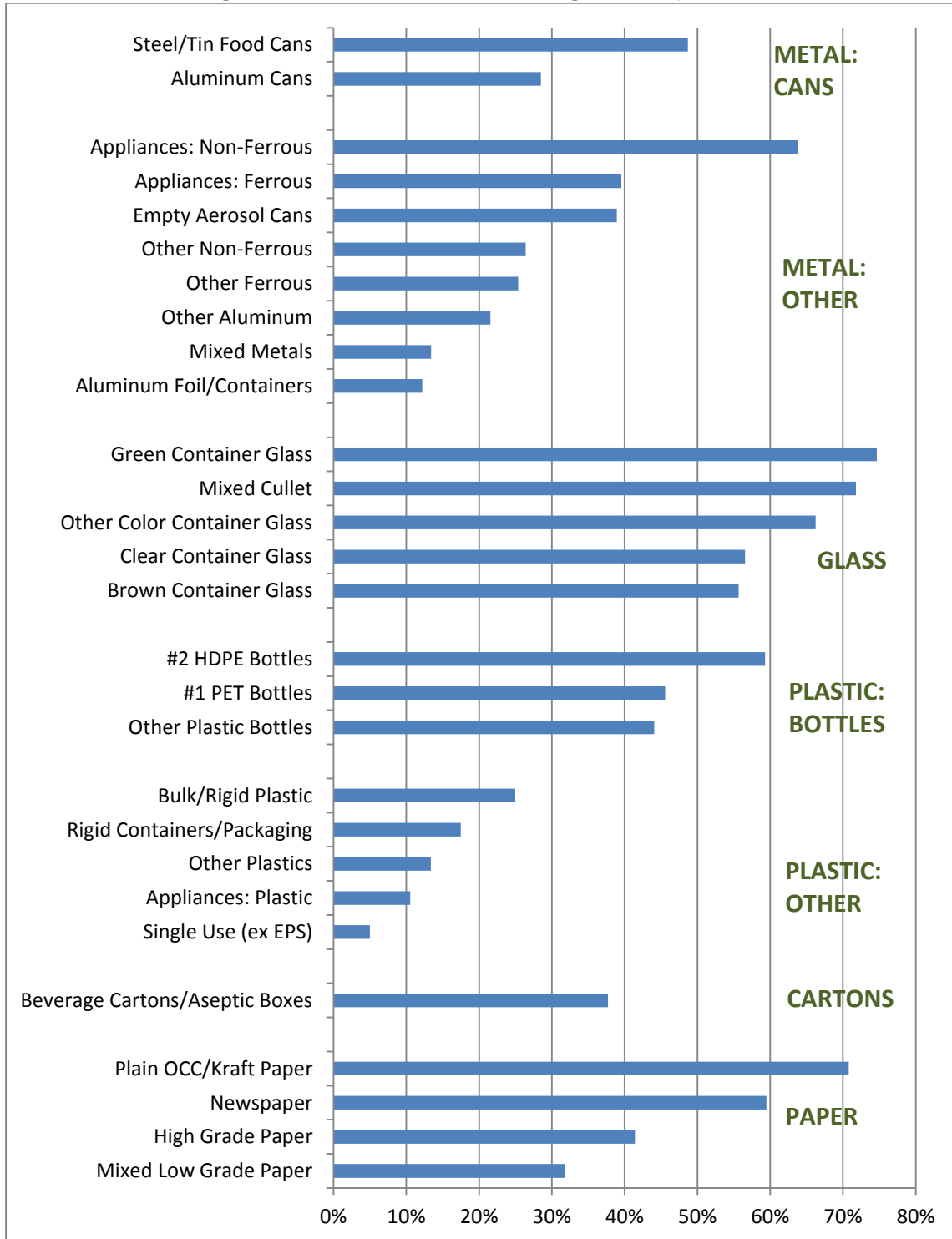
Material Group	Capture Rate, Plastic Bottles Only	Capture Rate, All Rigid Plastics
Metal	30.1%	30.1%
Glass	63.9%	63.9%
Plastic	50.6%	29.7%
Cartons	37.7%	37.7%
Paper (excluding Cartons)	46.8%	46.8%
<b>Total</b>	<b>47.3%</b>	<b>43.6%</b>

It should be noted that the Capture Rate for Plastic is much lower when based on all rigid plastics. This is because MGP was sampled before this program expansion (fall) and before the expanded program had been widely publicized (spring).



Figure ES-6 below shows the Capture Rates for individual Targeted Recyclables. As shown, Capture Rates range from a high of almost 75 percent for Green Container Glass, to a low of five percent for Single Use Plates/Cups/Cutlery (excluding EPS). Glass and Plastic bottles and cans have the highest Capture Rates, while the newly Targeted rigid plastic items have the lowest

**Figure ES-6 Capture Rates for Targeted Recyclables**

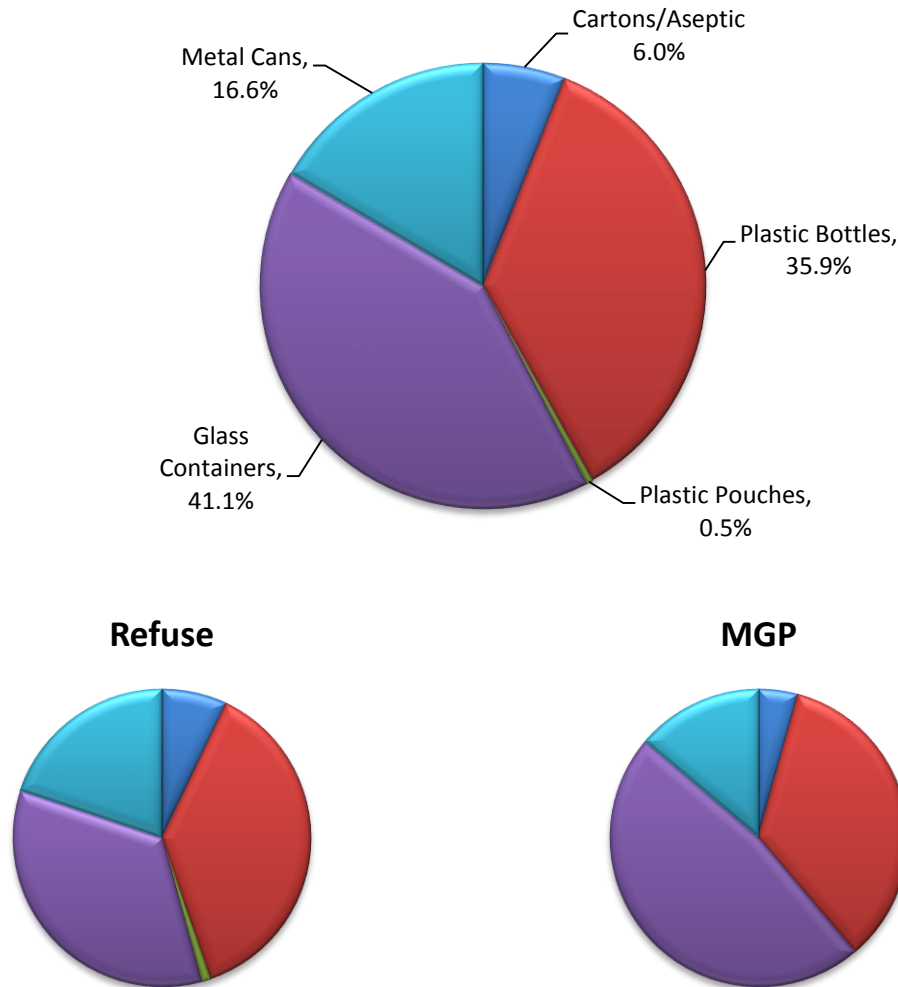


## EXECUTIVE SUMMARY

### ES 6.4. FOCUS ON BOTTLES, CANS AND CARTONS<sup>2</sup>

Almost 250,000 tons of bottles, cans and cartons were found to be collected in City curbside collections. Figure ES-7 shows the relative weight contribution of each material type in the aggregate Waste stream, as well as in the Refuse and MGP streams. Although some bottles, cans and cartons were found in Paper, no associated pie chart is shown in Figure ES-7 because there were only trace amounts.

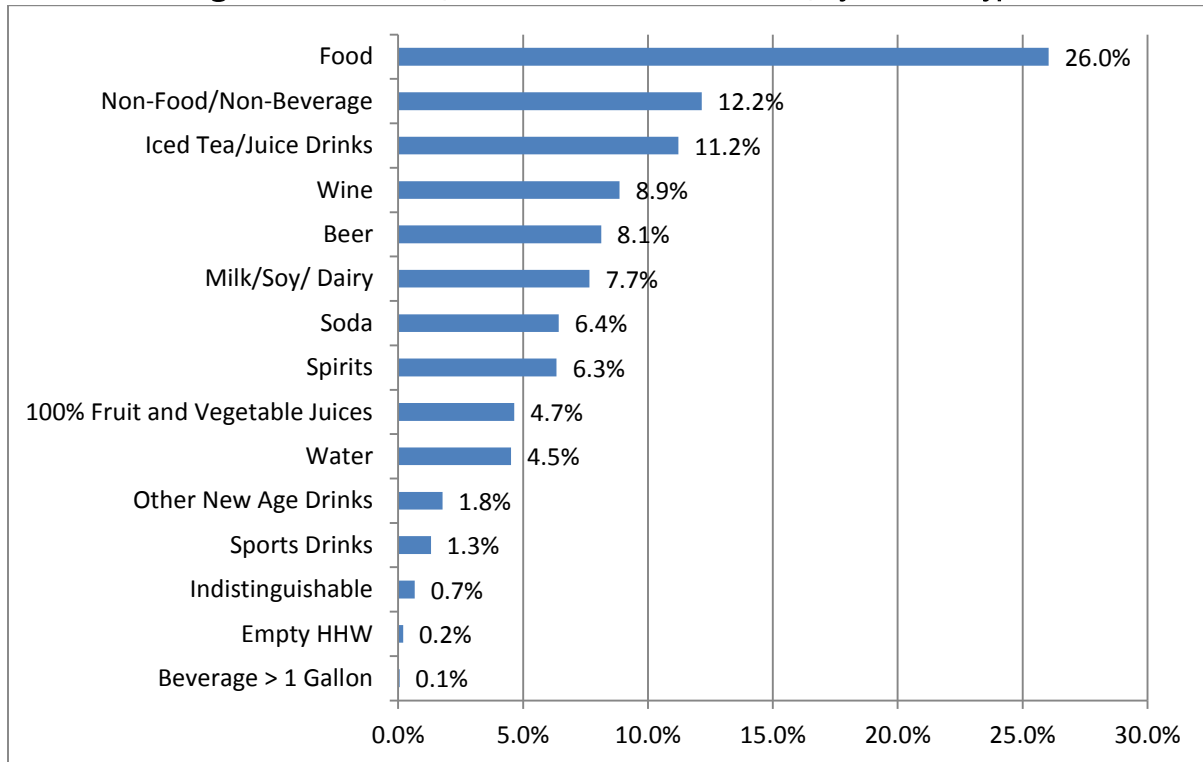
Figure ES-7 Bottles, Cans and Cartons in Waste, by Material Type



<sup>2</sup> The term "Bottles, Cans and Cartons" is used to denote all bottles, jars, cans, cartons, and drink pouches whether they contain beverage, food, or non-food materials

Bottles, cans and cartons were further sorted into 14 product categories, plus one category for “indiscernible” product type. Figure ES-8 shows the incidence of each product type from largest to smallest.

Figure ES-8 Bottles, Cans and Cartons in Waste, by Product Type

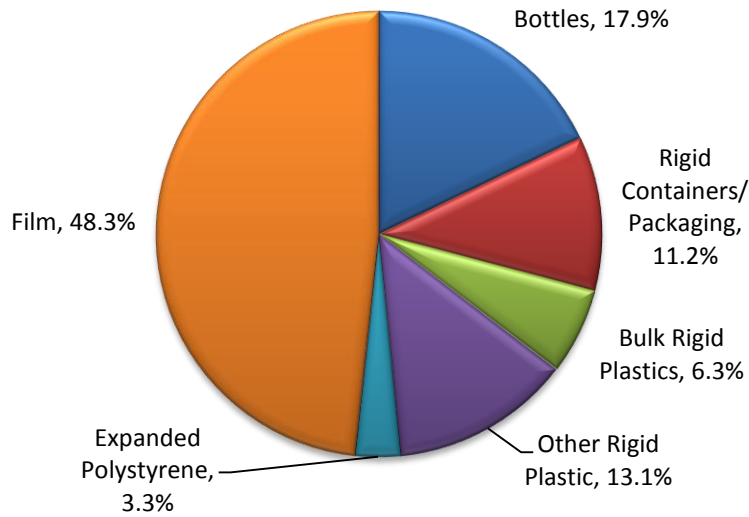


# EXECUTIVE SUMMARY

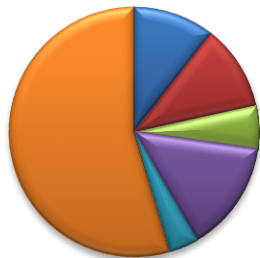
## ES 6.5. FOCUS ON PLASTICS

Almost 432,000 tons of plastics were found to have been collected curbside in the City in FY13. Figure ES-9 shows a breakdown of Plastics by several product types that are generally important to gauge recyclability. The smaller pie charts underneath show the composition of plastic resins in Refuse and MGP (Paper is not shown because it contained only trace amounts).

Figure ES-9 Plastics in Waste, by Product Category



Refuse

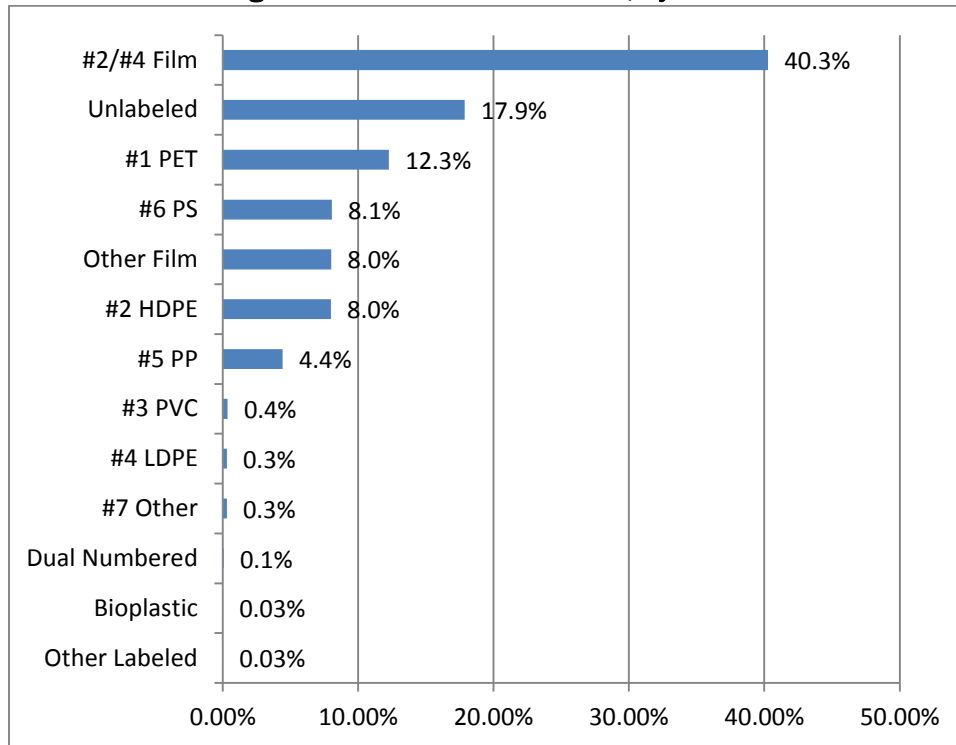


MGP



Rigid and expanded plastics were sorted into multiple resin categories – primarily resins numbered one through seven, but also including unlabeled and other resins. Films were sorted into two resins: polyethylenes (#2 and #4 combined) and all other films. Figure ES-10 shows the incidence of the main resin categories in the Waste Stream.

**Figure ES-10 Plastics in Waste, by Resin**



**ES 7. CONCLUSIONS**

The data contained in this Executive Summary scratch the surface and are but a fraction of the comprehensive information that is presented in Appendix K. Each of the figures and tables in this section can be duplicated for individual boroughs. Further, many of the results that are shown in the aggregate here (for example, the breakdown of Plastic resins by resin type) can be calculated for individual plastic product categories. Interested readers are encouraged to review the tabular data in Appendix K for further insight into New York City’s Refuse, MGP, Paper and aggregate Waste streams.

The 2013 WCS successfully provided comprehensive data about the Waste collected by DSNY in the curbside collection program. The data contained in the remainder of this report also provide:

- ◆ The ability to make detailed comparisons with prior WCS results,
- ◆ Insight on the impact of adding All Rigid Plastics to the list of Targeted Recyclables,
- ◆ Supporting data for use by DSNY and SMRNY to negotiate certain terms of any long term or other processing agreement for Recyclables,
- ◆ Detailed data about the distribution of beverage and non-beverage bottles, cans, cartons, aseptic boxes and juice pouches in the Waste stream, and
- ◆ Detailed data about the incidence of various plastic resins in the Waste stream.

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# 1 INTRODUCTION

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## 1.1 BACKGROUND

### 1.1.1 DSNY-MANAGED WASTE STREAMS

The New York Department of Sanitation (DSNY) handles collection, transport, and disposal of municipal solid waste (MSW) from all New York City (City) residents, who number over 8 million, and from thousands of public and non-profit institutions. In addition, it manages several other waste categories related to cleaning, construction, and infrastructural maintenance. In Fiscal Year (FY) 2013, DSNY managed approximately 4.5 million tons of materials including Refuse bound for disposal and Recyclables to be recovered and returned to the stream of commerce (collectively, Refuse and Recyclables make up Waste). Of the 3.6 million tons of Refuse and Recyclables collected from residents and institutions, approximately 15% was diverted from disposal to recycling under the City's curbside recycling program. Another 740,000 tons of organics, redeemed bottles and cans, electronics, textiles, bulk metal, automotive wastes, special wastes, fill, and road material – were diverted to composting, recycling or reuse; the rest were disposed.

The City's curbside recycling program became mandatory through the passage of Local Law 19 of 1989 requiring residents and institutions to separate certain commodities for recycling. The program reached all neighborhoods by 1993, and expanded to include more materials between 1995 and 1997. Between 2002 and 2004, glass containers and plastic bottles were temporarily suspended from recycling collection, although collection of metal and paper commodities continued. The Program was reinstated in full in 2004 and has remained fully in effect since then. On April 24<sup>th</sup>, 2013, the City announced an expansion of the program to include All Rigid Plastic items, broadening the range of plastic items that could be placed in recycling. Up until that point, NYC's program only targeted plastic bottles. On July 5<sup>th</sup>, 2013, the revised recycling rules became effective, and included bottles, non-bottle rigid plastic items and bulky rigid plastic items.

Recyclables are collected and managed in a dual stream program, with residents and institutions required to source separate designated material into two streams: (1) Paper and Cardboard (Paper), and (2) Metals, Glass, Plastic and Cartons (MGP)<sup>1</sup>. Table 1-1 outlines the targeted contents and associated rules for each Recyclables stream with its associated color.

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<sup>1</sup> This report maintains the acronym "MGP" in deference to historical precedence to when this stream included only Metal, Glass and Plastic but did not include Cartons.

# 1. INTRODUCTION

**Table 1-1 Dual-Stream Recycling Rules in New York City**

<p align="center"><b>“GREEN”</b> <i>Paper and Cardboard</i></p>	<p align="center"><b>“BLUE”*</b> <i>Metal, Glass, Plastic and Cartons</i></p>
<p align="center">paper and envelopes, all colors paper bags newspapers, magazines, and catalogs phone books and paperback books smooth cardboard items corrugated cardboard</p>	<p align="center">metal cans aluminum foil wrap and trays small metal items glass bottles and jars plastic bottles and jugs non-bottle rigid plastics * beverage and soup cartons and aseptic boxes bulky items containing mostly metal and plastic *</p>
<p align="center"><i>Set out for collection in</i></p>	<p align="center"><i>Set out for collection in</i></p>
<p align="center">a bin (preferably green) labeled with a green recycling decal OR a clear bag</p>	<p align="center">a bin (preferably blue) labeled with a blue recycling decal OR a clear bag bulky items are set out next to labeled recycling bins or clear recycling bags</p>

\* The 2013 WCS results are assumed to reflect discard behavior before the expansion of the program to include non-bottle rigid plastics and bulky rigid plastics in April 2013. The Fall Sort Season was implemented prior to this expansion. The Spring Sort Season was implemented shortly after the expansion was announced, but before the bulk of the public education effort took place and before the rules became effective.

## 1.1.2 PRIOR WASTE COMPOSITION STUDIES

In order to better manage its waste stream, DSNY has intermittently conducted comprehensive analyses of the composition of the DSNY-managed MSW stream. Since 1990, the following waste composition studies (WCS) have been performed.

- ◆ **1990 Waste Composition Study (1990 WCS):** In 1990, DSNY carried out its first WCS (1990 WCS), focusing only on Refuse and using Sanitation Districts as the geographical unit of analysis. Results were tabulated by borough and for the City as a whole using weighted averages based on tonnage collected within each Sanitation District. This study also addressed commercial waste.
- ◆ **2004 Preliminary Waste Characterization Study (PWCS):** In 2004/05, DSNY conducted a more comprehensive WCS to examine the generation and composition of both Refuse and Recycling from residences/institutions and street baskets (but not from commercial sources). This effort included a preliminary phase, termed the Preliminary Waste Composition Study (PWCS), which relied on 200 Refuse samples, 100 MGP samples, and 100 Paper samples to determine composition by Borough and for the City as a whole. The PWCS served as a proof-of-concept for a comprehensive sampling and sorting methodology that would be used for the complete study to follow.
- ◆ **2005 Waste Composition Study (2005 WCS):** Following the PWCS was a large-scale, comprehensive four season study (referred to in its final reporting simply as the “Waste Characterization Study” or 2005 WCS). The 2005 WCS included stratified sampling and sorting of wastes from nine different zones of the City with mutually exclusive housing density and per capita income characteristics. The 2005 WCS collected 1,609 Refuse samples, 1,300 MGP samples, and 325 Paper samples. The results of these sorts enabled the estimation of seasonal characterizations specific to income and housing density in different zones of the City. These estimates were then extrapolated to provide seasonal and annual characterization data for Districts, Boroughs, and the



City as a whole. This was accomplished by weighting each District, Borough, and the City by the population in each income and housing density category.

All three of the prior WCS reports have provided detailed and invaluable data about the waste stream managed by DSNY. Of particular interest, the aggregate results of the 2004 PWCS and the 2005 WCS on a Citywide and Borough-wide level were very similar, despite the significantly larger sampling targets in the 2005 WCS. The fact that two separate studies (the PWCS and the 2005 WCS) (each using quite different sampling methodologies) yielded similar results was important to inform the current study methodology. It strongly suggested that both methodologies were able to accurately characterize the curbside MGP, Paper and Refuse streams by Borough and for the City overall.

### 1.1.3 CURRENT PROCESSING CONTRACT

In September 2008, DSNY entered into a contract with Sims Municipal Recycling of New York LLC., (SMRNY) for the acceptance, processing and marketing of Recyclables. At present, SMRNY is responsible for processing all of the MGP collected by DSNY under this contract, and DSNY will begin delivering close to half of all Paper Recycling collections to SMRNY for separate processing in the near future.

DSNY's contract with SMRNY contains complex provisions that enable revenue sharing between the two parties, as well as insulation of both parties from the effects of market price fluctuations. Invoicing is carried out using a set of formulas that reflect monthly changes in commodity prices and delivered tonnages to SMRNY. Because it is not possible to characterize each delivered load as it comes in, every ton of delivered MGP is assumed, for the purpose of the contract, to have the same material composition. This composition of each ton delivered, presented in the contract's Composition Table, is based on the results of the 2005 WCS.

## 1.2 OBJECTIVES

The primary driver to conduct the 2013 WCS was **to update the characterization of MGP Recyclables for use in updating the Composition Table in the processing contract between SMRNY and DSNY.** However, DSNY recognized other potential benefits to expanding the MGP characterization to include a full update of the WCS data.

It is expected that the composition of deliveries to SMRNY has changed since 2005 and will see further change for several reasons.

First, the New York State Returnable Container Act (Bottle Bill) was amended in April 2009 and took effect October 2010 pursuant to Chapter 59 of the New York State Environmental Conservation Laws of 2009 to add water bottles to the list of containers covered. SMRNY's contract with DSNY includes a provision that should the original Bottle Bill enacted in 2005 be enhanced or diminished any in way, a waste characterization study of MGP will be performed to determine what if any impact such a change has had upon the MGP stream received by SMRNY.

Second, Local Law 35 of 2010 requires DSNY's Commissioner to annually evaluate the addition of rigid plastic containers to the list of designated plastics targeted for set out by residents and institutions in the years leading up to the commencement of delivery of MGP to SMRNY's new recycling processing facility at the 30th Street Pier in Sunset Park, Brooklyn. This expansion of designated MGP took place in April 2013. As such, this study provides critical information on the potential changes to the recycling stream, as well as on the impact on the City's processor, which will not realistically be able to recover all rigid plastic items.

Finally, independent research by a number of state and municipal entities suggests that changes in the composition of discards are underway throughout North America. These changes will affect the weight

# 1. INTRODUCTION

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and market value of collected Recyclables, and, more generally, impact solid waste management planning.

Accordingly, this study also seeks to achieve a number of objectives, described below.

## **Assess Changes in the Composition of Designated MGP Recycling, Designated Paper Recycling, and of Refuse**

The study seeks to characterize both recycling streams and refuse concurrently for a few reasons. By characterizing Refuse and the Paper at the same level of detail as MGP, using the same range of sort categories for plastic, metal, glass and cartons, this study should help understand how much of the decline in MGP and Paper collections is due to changes in plastic packaging, phase out of glass containers, reduction in printed publications, or other product specific developments, and how much reflects an overall contraction in consumption due to the ongoing recession and/or an increase in scavenging that reduces the amount of generated discards that is ultimately collected by DSNY. In addition, concurrent study of all three streams enables the calculation of capture rates for recyclables (see below).

The quantities of MGP, Paper, and Refuse have changed in recent years. Since Fiscal Year 2005, curbside collections of MGP and Refuse have declined, despite a modestly growing NYC population. The change in average weekly tons from Fiscal Year 2005 (corresponding to the period of the 2005 WCS) to Fiscal Year 2011 shows an 11 percent reduction in MGP, a 9 percent reduction in Refuse, and a 21 percent reduction in Paper.

- ◆ **MGP:** Glass containers continue to be phased out in favor of lighter weight plastic and aluminum alternatives. Based on this research, the City of Toronto predicts that ten years from now the average household will be generating 17 percent more plastic than it does currently, and halving its discard rate for glass, with metals staying about the same (Kelleher 2011, 26). The extent to which such predicted trends have already affected MGP composition is important to know in conjunction with a reassessment of the composition of metal, glass, and cartons in the MGP stream.

DSNY's contract with SMRNY includes a Composition Table for MGP Recycling, based on the 2005 WCS, that establishes a standard composition of commingled MGP deliveries for revenue sharing and invoicing purposes. Accordingly, this study updates the contract's MGP composition table.

- ◆ **Paper:** The same Toronto research study that forecast trends in plastic and glass packaging predicted substantial changes in Paper discards as well over the next ten years. Online information sources have already supplanted newspapers, magazines, telephone directories, leading to serious material and financial contractions of these industries. At the same time, increased home use of computer printers may mean somewhat more office paper in residential discards, and more online shopping means more cardboard boxes generated.

DSNY's contract with SMRNY includes a Composition Table for Paper Recycling, again based on the 2005 WCS, that establishes a standard composition of commingled Paper deliveries for revenue sharing and invoicing purposes if and when DSNY begins delivering curbside Paper collections to SMRNY. Accordingly, this study will update the contract's Paper Recycling composition table.

- ◆ **Refuse:** The 2005 WCS looked at a wide range of materials in discards, including paper, metal, glass, carton and plastic fractions; but also including other groups of materials not currently targeted in the Curbside Recycling program. These other materials, including organics, electronics, and inorganic wastes included a wide range of products and residues with potential for diversion through a variety of programs and strategies – including collections, producer-focused programs, consumer education approaches, changes in what can lawfully be set out at the curb, and composting.

This study updates the composition of Refuse by including a range of sort categories reflecting yard trimmings, food scraps, electronics, textiles, construction and demolition debris, household hazardous wastes and other materials. This will enable an examination of changes in the relative percentage of all material categories since 2004-05.

## **Assess Changes in Capture Rates for Materials Designated in MGP and Paper Recycling**

Capture Rates tell us about the rate at which targeted recyclable materials are being properly recycled by NYC residences and institutions, as opposed to being improperly thrown out in Refuse, going to disposal. To answer such questions, Recycling and Refuse need to be characterized concurrently. The resulting statistics quantify how well Recycling collections “capture” designated materials.

In this study, the Capture Rate for traditionally designated MGP materials and for the recently designated rigid plastics provides insight into existing recycling behavior and also the latent potential for capture of these materials. The DSNY – SMRNY contract’s Master Composition Table lists the capture rates for designated materials in addition to the material quantities in the MGP and Waste streams. The calculation of capture rates in the 2013 WCS allows the Composition Table to be fully updated.

## **Quantify the Composition of Plastics Discards in Even Greater Detail than in the 2005 WCS**

Research shows an increase in the diversity and quantity of consumer items made from plastic. Re-sealable, stand-up plastic pouches and smaller portion sizes in plastic bags, as well as rigid thermoform polyethylene terephthalate (PET) containers and rigid polypropylene (PP) tubs for food service packaging are gaining increased market share. Protective packaging and consumer products made from plastic are replacing items formerly made from other materials. The composition of plastic items is becoming more diverse, and includes bioplastics, as well as other polymer combinations, blends and layers. With the expansion of the City’s recycling program to include all rigid plastic items, it is important to understand just what makes up this category of discards. As such, Plastics are subdivided not only by an expanded number of material categories, but each category is entirely separated by resin code in this study.

## **Quantify the Composition of Bottle, Can and Carton Discards in Even Greater Detail than in the 2005 WCS**

To determine the impact of the expanded New York State Bottle Bill on the MGP stream received by SMRNY, bottles, cans and cartons are subdivided by container type and beverage/product type. Consumer redemption of such containers, the vast majority of which are blow-molded PET, may be removing some PET from deliveries to SMRNY if consumers (or scavengers) opt to redeem bottles rather than including them with Curbside Recycling collections. Therefore, a detailed assessment of rigid plastic composition, distinguishing newly added water bottles from bottles previously covered under the Bottle Bill from other plastic bottles that were not covered in the Bottle Bill expansion, was needed to accurately evaluate the market value of current deliveries to SMRNY.

### **1.3 REPORT ORGANIZATION**

Throughout this report, we refer to this update as the 2013 Waste Characterization Study (2013 WCS). This is because the field data collection occurred entirely during the City’s 2013 fiscal year (in September 2012 and May 2013). Broadly, the 2013 WCS intends to duplicate the PWCS in scope and complexity. Specific details about the 2013 WCS are contained in this Field Procedures Manual.

This Field Procedures Manual will be the only written document for the 2013 WCS. The Field Procedures Manual was intended to record, in detail, all planned and executed operations of the project such that the operational and statistical methods could be readily understood and recreated. The Field Procedures Manual also contains an abbreviated presentation of primary results; detailed raw and analyzed data have been separately delivered for use by SMRNY and DSNY.

# 1. INTRODUCTION

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In addition to the description of procedures to carry out the 2013 WCS, the manual includes a description of data recording, entry, coding, quality assurance, and analysis methods used throughout the study; and a detailed description of statistical methodology used in calculating results.

The Manual is organized in the following sections:

- ◆ **Section 2 – General Study Design:** This section provides an overview of the 2013 WCS from sampling through field data collection through analysis.
- ◆ **Section 3 - Sampling Logistics:** DSNY maintains the SCAN system, an Oracle Business Intelligence interface, that compiles and reports in detail on the routes and material quantities collected by DSNY. This section describes how the data extracted from this system was used to representatively sample loads of Refuse, MGP and Paper, and also described the sampling process at acceptance facilities receiving City Waste.
- ◆ **Section 4 - Sorting Logistics:** Because of the complexity of the composition requirements for this project, a highly detailed and customized sorting protocol was developed. This section describes the sorting logistics in detail.
- ◆ **Section 5 - Data Management and Analysis:** Throughout the 2013 WCS, it was critical to properly manage the extensive amount of data collected for this project. This section describes the data management procedures as well as the statistical processes used for analysis.
- ◆ **Section 6 – Results: Wastes:** This section contains summary results, in graphical and tabular format, for the aggregate of all Waste (Refuse + MGP + Paper) collected in the City’s curbside program.
- ◆ **Section 7 – Results: Refuse:** This section contains summary results, in graphical and tabular format, for the aggregate of all Refuse collected in the City’s curbside program.
- ◆ **Section 8 – Results: MGP:** This section contains summary results, in graphical and tabular format, for the aggregate of all MGP collected in the City’s curbside program.
- ◆ **Section 9 – Results: Paper:** This section contains summary results, in graphical and tabular format, for the aggregate of all Paper collected in the City’s curbside program.
- ◆ **Section 10 – Conclusions:** While it was beyond the scope of this Field Procedures Manual to provide extensive analysis and interpretation of the results of the composition analysis, this section briefly comments on the success of the 2013 WCS in meeting study objectives.
- ◆ **Glossary/Acronyms:** A number of terms and acronyms have been compiled in a glossary for constancy. These terms are generally capitalized throughout the report.
- ◆ **Appendices:** A great deal of the documentation and data required for the performance of the 2013 WCS is contained in a library of appendices. Specific appendices are shown in the Table of Contents.

## 2 GENERAL STUDY DESIGN

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### 2.1 INTRODUCTION

In general, the 2013 WCS sought to duplicate the methodology of the PWCS. However, a number of refinements were made to address the objectives of the 2013 WCS, and also to expand upon aspects of the PWCS protocol. The sections below itemize critical elements of the 2013 WCS study design. Detailed descriptions of sampling logistics and sorting logistics are contained in subsequent sections.

### 2.2 STAFFING

The Project Management team for the 2013 WCS included the following roles:

- ◆ The **Project Manager** was responsible for the overall performance of the project, before, during and after the field data collection. During field data collection, the Project Manager resided in the New York City metropolitan area and was on-site during project performance.
- ◆ The **Assistant Project Manager** assisted the Project Manager in all facets of the project.
- ◆ The Project Team's **Data Manager** was responsible for sampling of routes during the planning phases of the project, and for the upload and statistical analysis of sorted samples during the analysis phase of the project.
- ◆ The Project Team incorporated a **QA/QC Officer** to provide separate, independent technical input during the planning, execution, and analysis phases of the project.
- ◆ The **Safety Manager** was responsible for assisting in the preparation and site set-up for sampling and sorting execution.

Appendix A lists the Project Team staff responsible for the various roles in each of the two seasons.

### 2.3 SAMPLE MASS

The PWCS relied on sample mass of 100 lbs for MGP, 100 lbs for Paper, and 200 lbs for Refuse. The Project Team's professional experience and industry literature support these sample masses as being sufficient for the material streams targeted. These sample masses represent the minimum weight of samples that were obtained and sorted in the 2013 WCS.

### 2.4 SAMPLING TARGETS

The 2013 WCS initially envisaged duplicating the PWCS sampling targets of 200 Refuse, 100 MGP, and 100 Paper samples, for a total of 400 samples. However, it was necessary to address the issue of properly allocating these samples, which led to a revision of the total number of samples to be targeted.

The Project Team offered two methods for determining the appropriate number of samples for the 2013 WCS. The first method was to retain the same number and distribution of samples as the PWCS.

Table 2-1 summarizes the detailed distribution of samples from the PWCS. Samples were distributed in the PWCS in precise proportion to the contribution by each Borough to the Citywide waste stream.

## 2. GENERAL STUDY DESIGN

**Table 2-1 PWCS Sample Distribution by Borough and Stream**

Borough	Refuse	MGP	Paper
Bronx	31	15	9
Brooklyn	64	28	26
Manhattan	36	18	24
Queens	53	31	31
Staten Island	16	8	10
<b>Total</b>	<b>200</b>	<b>100</b>	<b>100</b>

Source: PWCS Tables 3-2 and 3-4 (§3 pp5-7)

However, the project objectives included the need to quantify material stream composition “on a City-wide and Borough-wide basis” (RFP p. 6). The Project Team concurred that the PWCS sampling targets were sufficient to assure representative City-wide results. However, the same could not be said about Borough-wide results for several of the Boroughs.

In a material composition analysis, increasing the number of samples obtained serves the primary function of reducing the width of the confidence intervals calculated around the results. The PWCS reported confidence intervals for the City-wide results, and the following three tables illustrate the importance of narrow confidence intervals.

Table 2-2 applies the results of the PWCS City-wide MGP composition to the 2011 City-wide MGP quantities. The table calculates the lower and upper boundary tonnage estimates for each material category. The final column shows the size of the potential variance in tons-per-day of each material group. In the opinion of the Project Team, the City-wide MGP results using 100 samples provide sufficiently narrow confidence intervals that the discrepancy between lower and upper bound do not materially differ from the “average” quantity for planning purposes.

**Table 2-2 Application of PWCS MGP Composition to Citywide MGP Tons (n=100)**

Material Group	Average	Lower Bound, %	Upper Bound %	Projected Lower Tons	Projected Upper Tons	Possible Variation in Tons/Day
Total Glass	35.11%	32.09%	38.18%	71,501	85,071	43
Total Metal	31.08%	28.83%	33.33%	64,238	74,264	32
Total Plastic	21.53%	20.35%	22.73%	45,343	50,646	17
Total Paper	4.80%	4.25%	5.39%	9,470	12,010	8
Total Organic	3.31%	2.65%	4.05%	5,905	9,024	10
Total Appliance & Electronics	2.91%	2.20%	3.95%	4,902	8,801	12
Total Misc.	0.86%	0.61%	1.14%	1,359	2,540	4
Total Construction Debris	0.28%	0.19%	0.38%	423	847	1
Total HHW	0.12%	0.08%	0.16%	178	357	1
<b>Grand Total</b>	<b>100%</b>					

Source of Composition Data: PWCS Table 7-2B (§7 p6)

However, as few as eight or 10 samples of MGP and Paper were obtained for certain Boroughs in the PWCS. It is not clear that the PWCS results provided sufficiently narrow confidence intervals *at the*

## 2. GENERAL STUDY DESIGN

*Borough level.* Since the PWCS did not report the confidence intervals at the Borough level the Project Team estimated the confidence intervals for the City-wide composition assuming a total of eight samples. Table 2-3 shows an example of the expected lower and upper bounds for MGP composition data with eight samples.

**Table 2-3 Application of PWCS MGP Composition to Citywide MGP Tons (n=8)**

Material Group	Average	Lower Bound, %	Upper Bound %	Projected Lower Tons	Projected Upper Tons	Possible Variation in Tons/Day
Total Glass	35.11%	24.34%	45.88%	54,243	102,218	154
Total Metal	31.08%	23.13%	39.03%	51,526	86,976	114
Total Plastic	21.53%	17.32%	25.74%	38,598	57,347	60
Total Paper	4.80%	2.78%	6.82%	6,205	15,185	29
Total Organic	3.31%	0.84%	5.78%	1,861	12,890	35
Total Appliance & Electronics	2.91%	0.00%	6.00%	0	13,377	43
Total Misc.	0.86%	0.00%	1.80%	0	4,004	13
Total Construction Debris	0.28%	0.00%	0.62%	0	1,372	4
Total HHW	0.12%	0.00%	0.26%	0	582	2
<b>Grand Total</b>	<b>100%</b>					

Source of Composition Data: PWCS Table 7-2B (§7 p6)

The discrepancy between the lower and upper bounds is significantly larger and materially differs from the “average” quantity for planning purposes. This suggested that the composition data at the Borough level may not be robust enough under the PWCS sample allocation to support program planning or decision making processes because of the relatively large confidence intervals.

Accordingly, the second method was used, in which the 2013 WCS established a minimum number of samples per Borough and forced each Borough to be sampled to the minimum level, while retaining the PWCS sample counts for Boroughs that exceed the minimum sampling target. Specifically, the minimum number of samples per Borough for Refuse was set at 40; the minimum for MGP at 30; and the minimum for Paper at 20.

Table 2-4 summarizes the resulting number and distribution of samples targeted in the 2013 WCS. Compared to the PWCS, the total number of samples increased 19 percent for Refuse, 19 percent for Paper, and 50 percent for MGP.

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**Table 2-4 2013 WCS Sample Distribution by Borough and Stream**

Borough	Refuse	MGP	Paper	Total
Bronx	40	30	20	90
Brooklyn	64	30	26	120
Manhattan	40	30	24	94
Queens	53	31	31	115
Staten Island	40	30	20	90
<b>Total</b>	<b>237</b>	<b>151</b>	<b>121</b>	<b>509</b>

As shown, a total of 509 samples were targeted for the 2013 WCS for all three streams. As described later in Sections 2.7.1-3 and shown in Exhibit 3, sampling targets were successfully met or exceeded for each borough and each material stream, with a total of 569 samples actually obtained.

### 2.5 SEASONALITY

The 2005 WCS included four seasonal data collection events, which assured not only seasonal representation but also provided sufficient data to compare the composition in each of four seasons. In general, DSNY found there to be relatively little variation in composition between seasons for most materials. The Project Team has reviewed the 2005 WCS seasonal results and generally concurs with that assessment.

However, a subset of categories in the MGP Stream were both prevalent (i.e., there was more than 3.0 percent observed in the stream) and also exhibited significant seasonal variation. These material categories are shown in Table 2-5.

**Table 2-5 Prevalent Materials in 2005 WCS Exhibiting Significant Seasonal Variation**

Stream	Material Category	Fall 2004	Winter 2005	Spring 2005	Summer 2005	Annual
MGP	Other Ferrous Metal	15.7%	13.9%	12.4%	9.5%	12.8%
MGP	Appliances: Ferrous	9.3%	6.5%	3.2%	3.4%	5.5%

Source: 2005 WCS Table 1-30 (§2 p20)

In particular, these two categories capture the range of bulky metal items that are designated in the MGP stream. In addition to the significant seasonal variation, both categories trended downward for the duration of the 2005 WCS. It is worth noting that NYC re-instituted its full curbside recycling program in the year before the 2005 WCS after having discontinued the collection of certain commodities for several years. It is not known if the trends shown in Table 2-5 are simply expected statistical variation, or if there was in fact a trend. Because of this unknown, and because Other Ferrous Metal and Ferrous Appliances were a significant fraction of MGP in the 2005 WCS, it was recommended that sampling be distributed over multiple seasons in the 2013 WCS.

The Project Team's review of Refuse and Paper composition data from the 2005 WCS identified no significant variation in seasonal composition of any of the prevalent material categories.<sup>1,2</sup> For this

<sup>1</sup> Materials were deemed to be "prevalent" if they constituted more than 2 percent of the waste stream. There were several material subcategories that did vary by season, but none contributed a sufficient fraction to the overall composition to warrant concern.



reason, the 2013 WCS targets only a single season of field data collection for these two streams. In an attempt to balance project objectives with cost-effectiveness of the field data collection, the 2013 WCS ultimately was planned for two seasonal field data collection events, as shown in Table 2-6. It should be noted that the split of MGP samples across two seasons was strictly to capture representative samples from both seasons, and not for the purpose of comparing seasonal differences in the MGP stream.<sup>3</sup>

**Table 2-6 2013 WCS Seasonal Sample Distribution**

Material Stream	Fall 2012	Spring 2013
MGP	50%	50%
Paper	0%	100%
Refuse	100%	0%

Specifically, MGP samples were split evenly between two seasons, while Refuse and Paper samples were collected entirely within one season. This decision has some implications on the aggregation of data because of the need to base weighting factors on the quantity of Waste collected during a single time period. Development of weighting factors and the selection of the appropriate time period is described in Section 5.

Appendix B contains the detailed sampling schedule for both seasons.

### 2.6 QUANTITY OF WASTE COLLECTED BY DSNY

Information about all household collection trucks for Refuse, Paper and MGP (including some dual body routes) are uploaded daily into DSNY's SCAN system and is accessible via an Oracle Business Intelligence interface that enables different levels of aggregation over time, material type, and collection area, among other variables. The Department consequently has access to extensive historical data on collections at a high level of detail.

All of the field data collection for this project occurred within FY2013, which spanned from July 1, 2012 through June 30, 2013. For this reason, FY2013 was deemed to be the most appropriate time period for use as a basis for the total quantity of Waste analyzed in this study. Table 2-7 summarizes the annual quantity of Wastes collected for each of the three targeted material streams. A complete summary of curbside collected Wastes (including Refuse, MGP and Paper) for FY2013 is shown in Appendix K.

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<sup>2</sup> It should be noted that yard waste in the Refuse stream during the 2005 WCS was consistent in the Fall, Spring and Summer seasons, but dropped considerably in the winter season. Because the 2013 WCS sampled Refuse in the Fall, yard waste may be slightly overestimated in the 2013 WCS results.

<sup>3</sup> Although it was beyond the scope of this study to do so, a sufficient number of samples were obtained in each of the two seasons to develop seasonal comparisons and to identify seasonally differences *at the City-wide level*. It is unlikely that seasonal differences at the borough level would be discernible due to insufficient sample size.

## 2. GENERAL STUDY DESIGN

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**Table 2-7 New York City Curbside Collections Summary, FY2013**

Borough	Refuse Tons	MGP Tons	Paper Tons	Total Tons
Manhattan	436,099	43,118	68,288	547,505
Bronx	429,181	28,361	28,728	486,270
Brooklyn South	816,295	60,069	84,705	961,069
Queens West	719,473	62,331	79,181	860,985
Staten Island	187,153	18,379	24,489	230,021
<b>Total</b>	<b>2,588,201</b>	<b>212,257</b>	<b>285,391</b>	<b>3,085,849</b>
<i>Percent of Total</i>	<b>83.9%</b>	<b>6.9%</b>	<b>9.2%</b>	<b>100%</b>

### 2.7 ROUTE SELECTION

New York City's curbside collection system operates within a rigidly organized framework of routes that experiences relatively little change over time. This is due to the City being completely built out, with little prospect of significant increases (or decreases) in residential service locations that might drive re-routing of the sanitation collection system. However, it was reported by DSNY that over the last decade there has been some significant re-development in pockets of the city, changes to zoning laws, and increases in residential presence. So, some localized re-routing has occurred, but no broad, city-wide re-routing.

Given this background, and to maintain consistency and comparability between the PWCS and the 2013 WCS, the first step in selecting routes for sampling was to identify the number of existing routes that were randomly sampled as part of the PWCS, and to use these routes as a starting point.

DSNY provided a list of all regular curbside collection routes for Refuse, Paper and MGP from the SCAN system. From this list, the extant PWCS routes were identified and then additional routes were chosen.<sup>4</sup> Table 2-8 contains a sample of the data available for each and every route operated by DSNY. The identification parameters shown are identical to those in effect during the PWCS.

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<sup>4</sup> It was further reported by DSNY that some routes, while still covering the same general service area and using the same route and neighborhood identification number in FY2013, may have a new mix of premises served and/or may have been split (i.e., a new route added) in high development areas.

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**Table 2-8 Route Identification Parameters in SCAN System (2005 and 2013 WCS)**

Field	Values	Sample Data
<i>Borough</i>	Bronx, Brooklyn, Manhattan, Queens, Staten Island	Queens
<i>District</i>	Integer signifying the geographic district	9
<i>Section</i>	Integer signifying the geographic section	2
<i>Day</i>	Day of the week	Monday
<i>Route</i>	Route number	1
<i>Sector</i>	Refuse, MGP, Paper	Refuse
<i>Shift</i>	1, 2, or 3 to signify which of three daily shifts the route was operated	2
<i>Route Frequency</i>	Number of days per week the route is operated (1, 2 or 3 times)	2x/week
<i>Tip Location</i>	The acceptance facility where the route will tip	Varick
<i>Average Pounds</i>	Historical average quantity collected on this route	21,000
<i>Early or Late Week</i>	A designation (described more fully later in this section) differentiating between routes that occur after the weekend from other routes	Early
<i>In PWCS</i>	“Yes” if the route was sampled in PWCS	Y

From this information, the Project Team assigned each route a unique route number composed of the borough, district, section, day, route, and sector. In the example in the table above, the unique route number is Q092M1R. All Monday or Tuesday collections were designated as early week routes. All collections on Thursday, Friday, or Saturday were designated as late week collections. Wednesday routes with a twice per week collection frequency were designated as Early Week while those with three times a week collection were designated as Late Week. The distribution of DSNY curbside routes, which total to over 8,800, is summarized in Table 2-9 for both the September 2012 and May 2013 time periods.

**Table 2-9 Total Combined Routes for Refuse, MGP and Paper**

Borough	Number of Extant PWCS Routes	September 2012		May 2013	
		Number of Non-PWCS Routes	Total Routes	Number of Non-PWCS Routes	Total Routes
Bronx	54	1,002	1,056	983	1,036
Brooklyn	115	2,706	2,821	2,698	2,810
Manhattan	75	1,026	1,101	1,020	1,095
Queens	115	2,863	2,978	2,850	2,963
Staten Island	34	856	890	823	857
<b>Total</b>	<b>393</b>	<b>8,453</b>	<b>8,846</b>	<b>8,374</b>	<b>8,761</b>

## 2. GENERAL STUDY DESIGN

Because some PWCS routes no longer existed, and because the methodology for the current study requires more routes than the PWCS, some of the current study routes were selected using a random route selection process. The process used for each sector (i.e., Refuse, MGP, and Paper) is detailed in the following sections.

### 2.7.1 REFUSE SAMPLE ALLOCATION AND SELECTION

The 2013 WCS methodology set a one-season sampling target of 237 Refuse samples allocated to boroughs as described previously in Table 2-4. Consistent with the PWCS, the sample target for each borough was further subdivided into Early Week and Late Week targets. The Early Week and Late Week targets for each borough are in proportion to the Early Week and Late Week tonnage collected from each borough. Additionally, the Project Team selected, as contingencies, two additional early week routes and two additional late week routes in each borough. The contingencies ensure that in the event of a collections vehicle breakdown or sample collection team error, the minimum required number of samples is still collected. However, to the extent contingency samples were successfully collected over and above the sampling target, these samples were retained in the analysis (thereby increasing the sample count and reducing the uncertainty of resulting composition data). The Early Week and Late Week targets for the 2013 WCS are shown in Table 2-10.

**Table 2-10 Early Week and Late Week Refuse Targets by Borough**

Borough	Early Week Samples			Late Week Samples			Total Samples		
	Target	Contingency	Total	Target	Contingency	Total	Target	Contingency	Total
Bronx	18	2	20	22	2	24	40	4	44
Brooklyn	29	2	31	35	2	37	64	4	68
Manhattan	16	2	18	24	2	26	40	4	44
Queens	28	2	30	25	2	27	53	4	57
Staten Island	22	2	24	18	2	20	40	4	44
<b>Total</b>	<b>113</b>	<b>10</b>	<b>123</b>	<b>124</b>	<b>10</b>	<b>134</b>	<b>237</b>	<b>20</b>	<b>257</b>

There were 192 extant PWCS Refuse routes, all of which were retained as sample routes in the 2013 WCS. The Project Team randomly selected for sampling 65 routes from the remaining non-PWCS routes. The randomly selected routes were distributed as shown in Table 2-11. To the extent these randomly selected samples exceeded the sampling targets, they were nonetheless retained in the final analysis (thereby increasing the sample size).

**Table 2-11 Distribution of Randomly Selected Refuse Routes**

Borough	Randomly Selected Early Week Samples	Randomly Selected Late Week Samples	Total Randomly Selected Samples
Bronx	5	9	14
Brooklyn	6	2	8
Manhattan	2	6	8
Queens	2	5	7
Staten Island	15	13	28
<b>Total</b>	<b>30</b>	<b>35</b>	<b>65</b>

## 2. GENERAL STUDY DESIGN

Routes were randomly selected using the following three steps:

- ◆ **Step 1:** All non-PWCS routes were assigned a random number using the =rand() function in Microsoft Excel.
- ◆ **Step 2:** Routes were sorted by borough, Early or Late Week collection, and random number.
- ◆ **Step 3:** Routes were selected in order from largest random number to smallest random number for each borough until the Early Week and Late Week sampling targets were met.
- ◆ **Step 4:** Randomly sampled routes were bundled so that no more than three boroughs were sampled on a given night. In practice, this meant that some randomly sampled routes were passed over if inclusion of such route would trigger collection at a fourth facility.

Appendix B contains a detailed list of the Refuse routes selected.

### 2.7.2 MGP SAMPLE ALLOCATION AND SELECTION

The 2013 WCS methodology set a two season sampling target of 151 MGP samples allocated to boroughs as described previously. To ensure that the sampling targets were met the Project Team selected four additional routes for sampling in each borough as contingencies in season one. An analysis of the actual number of contingency samples needed at the conclusion of season one revealed fewer than expected missed samples. For this reason, three additional samples per borough (instead of four) were selected for season two. To the extent contingency samples were successfully collected over and above the sampling target, these samples were retained in the analysis (thereby increasing the sample count and reducing the uncertainty of resulting composition data). The total number of samples for each borough, including contingencies, is shown in Table 2-12.

**Table 2-12 MGP Targets by Borough and by Season**

Borough	First Season Samples			Second Season Samples			Total Samples		
	Target	Contingency	Total	Target	Contingency	Total	Target	Contingency	Total
Bronx	15	4	19	15	3	18	30	7	37
Brooklyn	15	4	19	15	3	18	30	7	37
Manhattan	15	4	19	15	3	18	30	7	37
Queens	16	4	20	15	3	18	31	7	38
Staten Island	15	4	19	15	3	18	30	7	37
<b>Total</b>	<b>76</b>	<b>20</b>	<b>96</b>	<b>75</b>	<b>15</b>	<b>90</b>	<b>151</b>	<b>35</b>	<b>186</b>

There were 104 extant PWCS MGP routes, all of which were retained as sample routes in the 2013 WCS. The Project Team randomly selected an additional 82 routes for sampling from the remaining non-PWCS routes, distributed as shown in Table 2-13, using three steps as in the Refuse sampling (although excluding the Early Week/Late Week distinction).

## 2. GENERAL STUDY DESIGN

**Table 2-13 Distribution of Randomly Selected MGP Routes**

Borough	Randomly Selected Season One Samples	Randomly Selected Season Two Samples	Total Randomly Selected Samples
Bronx	5	17	22
Brooklyn	4	4	8
Manhattan	6	13	19
Queens	4	0	4
Staten Island	12	17	29
<b>Total</b>	<b>31</b>	<b>51</b>	<b>82</b>

Appendix B contains a detailed list of the MGP routes selected.

### 2.7.3 PAPER SAMPLE ALLOCATION AND SELECTION

The 2013 WCS methodology set a single season sampling target of 121 Paper samples allocated to boroughs as described previously. To ensure that the sampling targets were met the Project Team selected two additional routes for sampling in each borough as contingencies. To the extent contingency samples were successfully collected over and above the sampling target, these samples were retained in the analysis (thereby increasing the sample count and reducing the uncertainty of resulting composition data). The total number of samples for each borough, including contingencies, is shown in Table 2-14.

**Table 2-14 Paper Targets by Borough**

Borough	Total Samples		
	Target	Contingency	Total
Bronx	20	2	22
Brooklyn	26	2	28
Manhattan	24	2	26
Queens	31	2	33
Staten Island	20	2	22
<b>Total</b>	<b>121</b>	<b>10</b>	<b>131</b>

During the actual field study, it was necessary to arrange for eight make-up samples (as a result of an error by a Sampling Manager resulting in light samples). A total of 139 Paper routes were ultimately selected.

There were 80 extant PWCS Paper routes, all of which were retained as sample routes in the 2013 WCS. The Project Team randomly selected 59 routes for sampling from the remaining non-PWCS routes. The randomly selected routes were distributed as shown in Table 2-15, using three steps as in the MGP sampling.

**Table 2-15 Distribution of Randomly Selected Paper Routes**

Borough	Randomly Selected Samples
Bronx	15
Brooklyn	12
Manhattan	8
Queens	7
Staten Island	17
<b>Total</b>	<b>59</b>

Appendix B contains a detailed list of the Paper routes selected.

**2.8 MATERIAL CATEGORIES**

The Project Team developed and agreed upon a comprehensive list of material categories for the 2013 WCS. The sorting requirement for the 2013 WCS includes the same sorting requirements for all three material streams, Refuse, Paper and MGP, to permit a detailed calculation of the Capture Rate for materials and to aggregate the composition data from any combination of the streams. The primary material categories and subsorts are described below.

**2.8.1 PRIMARY MATERIAL CATEGORIES**

A critical element of the 2013 WCS design involved the determination of material categories. While the PWCS was used as a starting point, it was necessary to consolidate several categories and expand the plastics categories in order to meet the resin subsorting requirements of this project. Prior to the field data collection, a detailed category list was developed with input from DSNY and SMRNY. Table 2-16 below summarizes the final categories used for final reporting purposes.

Detailed definitions of the primary material categories are contained in Appendix C. It should be noted that the material categories and definitions are shown two ways in Appendix C. Exhibit C-1 contains the material category definitions for the materials as shown throughout the results presentation of this 2013 WCS, as shown in Table 2-16. Exhibit C-2 contains another set of material category definitions that were developed and used during the actual sorting process. The two sets of material categories are identical except for the plastics categories, which were somewhat more extensively defined during the sorting, but which have been consolidated for presentation in this report. The mapping of plastics categories in Exhibit C-1 to C-2 are shown in Exhibit C-1.

## 2. GENERAL STUDY DESIGN

Table 2-16 Primary Material Categories in the 2013 WCS

Group	Material	Group	Material
<b>Paper</b>	Newspaper	<b>Organic</b>	Yard Waste
	Plain OCC/Kraft Paper		Food
	High Grade Paper		Non-C&D Wood
	Mixed Low Grade Paper		Textiles: Non-Clothing
	Compostable/Soiled Paper/Waxed OCC/Kraft		Textiles: Clothing
	Other Nonrecyclable Paper		Carpet/Upholstery
<b>Beverage Cartons</b>	Beverage Cartons And Aseptic Boxes		Disposable Diapers & Sanitary Products
			Animal By-Products
<b>Plastic</b>	#1 PET Bottles		Shoes/ Rubber/ Leather
	#2 HDPE Natural Bottles		Fines
	#2 HDPE Pigmented Bottles		Miscellaneous Organics
	Other Plastic Bottles		
	Rigid Plastic Containers/ Packaging	<b>Electronics</b>	Audio/Visual Equipment (TV Peripherals - Covered)
	#6 Expanded Polystyrene (EPS)		Audio/Visual Equipment (Non-Covered)
	Film: Retail Bags & Sleeves		Computer Monitors
	Film: Garbage Bags		Televisions
	Film: Pouches		Other Computer Equipment
	Film: All Other Film		<b>Constr. Debris</b>
	Single-Use Plates, Cups, Cutlery (excluding #6 EPS)	Treated/Contaminated/ Composite Wood	
	Appliances: Plastic	Other C&D Debris Not Elsewhere Classified	
	Bulk/Rigid Plastic	<b>Misc.</b>	
	Other Plastics Materials Not Elsewhere Classified		<b>HHW</b>
<b>Glass</b>	Clear Container Glass	Antifreeze	
	Green Container Glass	Wet-Cell Batteries	
	Brown Container Glass	Water-Based Adhesives/Glues	
	Other Color Container Glass	Latex Paint	
	Mixed Cullet	Oil-Based Paint/Solvent	
	Other Glass	Pesticides/Herbicides/ Rodenticides	
<b>Metal</b>	Aluminum Cans	Dry-Cell Batteries:	
	Aluminum Foil/Containers	Fluorescent Tubes/CFLs	
	Other Aluminum	Mercury-Laden Wastes	
	Other Nonferrous	Compressed Gas Cylinders, Fire Extinguishers	
	Steel/Tin Food Cans	Home Medical Products	
	Empty Aerosol Cans	Other Potentially Harmful Wastes	
	Other Ferrous		
	Mixed Metals		
	Appliances: Ferrous		
	Appliances: Non-Ferrous		



## 2. GENERAL STUDY DESIGN

### 2.8.2 BOTTLES, CANS AND CARTON SUBSORT CATEGORIES

Based on the original and the 2009 amended bottle deposit legislation in New York State, as well as potential changes to the legislation and/or initiation of local legislation, the 2013 WCS sought to provide detailed insight on the mix of bottles, cans and cartons in the waste stream.<sup>5</sup> The 2013 WCS required every one of these container categories to be further subsorted into 14 distinct beverage or non-beverage types, plus one category for those containers that were of indistinguishable category type due to excessive mangling and/or loss of labeling during collection. Table 2-17 lists the 15 total bottle, can and carton subsort categories, and definitions of each are also included in Appendix C.

**Table 2-17 Bottle, Can and Carton Subsort Categories**

1	Soda	9	Milk/Soy/Dairy
2	Beer	10	100% Juice
3	Water	11	Food
4	Iced Tea	12	Non-food/Non-beverage
5	Sports Drinks	13	Beverage > 1 gallon
6	Other New Age Drinks	14	Empty HHW/Auto Fluid Containers
7	Wine	15	Indistinguishable
8	Spirits		

Table 2-18 lists the primary material categories that required subsorting into different bottle, can and carton types (as well as film pouches).

**Table 2-18 Primary Material Categories Requiring Beverage Container Subsort**

<b>PLASTIC</b>	
#1 PET Bottles	<b>CARTONS</b>
#2 HDPE Bottles	Cartons/Aseptic Juice Boxes
#3 PVC Bottles	
#4 LDPE Bottles	<b>GLASS</b>
#5 PP Bottles	Clear Glass Bottles
#6 PS Bottles	Green Glass Bottles
#7 Other Bottles	Brown Glass Bottles
Dual Labeled Bottles	Other Color Glass Bottles
BioPlastic Bottles (Labeled only)	
Other Labeled Resin Bottles	<b>METAL</b>
Unlabeled Bottles	Aluminum Cans
Film Pouches	Steel Cans

<sup>5</sup> In prior studies, the only containers subject to the State deposit legislation were certain types of beverage containers, and historically the PWCS and 2005 WCS's both evaluated "beverage containers." However, in the 2013 WCS, it was necessary to think about all bottles, cans, cartons and juice pouches. Accordingly, the 2013 WCS more broadly refers to "bottles, cans and cartons" instead of the legacy term "beverage containers," which do not cover the wide range of recyclable non-beverage bottles, cans and cartons that exist in the waste stream in 2013.

## 2. GENERAL STUDY DESIGN

### 2.8.3 PLASTIC RESIN SUBSORT CATEGORIES

A particularly challenging requirement of the 2013 WCS involved segregating each and every plastic item into its labeled plastic resin code. Plastics were further segregated between rigid plastics, expanded polystyrene plastics, and film plastics. Every plastic material category underwent the resin subsort. Table 2-19 summarizes the specific plastic resins and resin combinations that were captured in the subsorting.

**Table 2-19 Plastic Resin Subsort Categories**

Resin Subsort		Allowable Labeling
1	#1 PET [1]	Labeled
2	#2 HDPE Natural	Labeled
3	#2 HDPE Pigmented	Labeled
4	#3 PVC	Labeled/Unlabeled
5	#4 LDPE/LLDPE	Labeled
6	#5 PP Rigid	Labeled
7	#5 PP Expanded	Labeled/Unlabeled
8	#6 PS Rigid	Labeled/Unlabeled
9	#6 PS Expanded	Labeled/Unlabeled
10	#7 Other	Labeled
11	Dual Numbered	Labeled
12	Other Labeled Resin	Labeled
13	Polyethylene Film (HD/LD/LLD)	Labeled/Unlabeled
14	Non-PE Film	Labeled/Unlabeled
15	Bioplastic	Labeled Only
16	Unlabeled Resin	Unlabeled

[1] #1 PET Bottles were further subsorted into two colors: (i) Clear/Green and (ii) Other

Table 2-20 lists the primary material categories that required subsorting into different resin types.

**Table 2-20 Primary Material Categories Requiring Resin Subsort**

Other Plastic Bottles	Bulk/Rigid Plastic: Toys/Housewares
Tubs/Lids Excluding #6 Polystyrene	Bulk/Rigid Plastic: Other Durable
Other Rigid Containers/Packaging	Other Plastics
Single Use Plastic Plates/Cups/Cutlery	Film Plastic: Other #2/#4 Polyethylene
Appliances: Plastic	Film Plastic: Other Non-PE/Contaminated
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	

Note: Many primary material categories already isolated the resin and did not need to be further sorted by resin (e.g. #1 PET Bottles).

Resin subsort categories are also included in Appendix C.

## 2. GENERAL STUDY DESIGN

### 2.8.4 TOTAL MATERIAL CATEGORIES

In total, the sorting requirements for this project result in the potential for there to be approximately 500 material categories. In practice, not every combination of primary sort and subsort was found; however, over 330 unique material categories were ultimately found.

### 2.9 SAMPLING SITES

At the time of this study, DSNY delivered Wastes to 18 different acceptance facilities across the five boroughs and in New Jersey. Table 2-21 summarizes the universe of acceptance facilities in use.

**Table 2-21 Acceptance Facilities Receiving DSNY Wastes**

MGP	Refuse	Paper
Sims Metal Management - Bronx	WM - Harlem River	Paper Fibers
Sims Metal Management - Queens	WM - Varick	Triboro
Sims Metal Management - Claremont, NJ	IESI 50th St	Metropolitan
	Covanta Essex	Rapid Recycling
	IWS - Jersey City	VISY 59th St
	IESI - Seneca Meadows	Labosco
	WM - Riverview	VISY Victory Blvd
	Staten Island Transfer Station	Sims Metal Management - Bronx
<b>Total = 3</b>	<b>Total = 8</b>	<b>Total = 8</b>

A significant logistical aspect of this project involved determining how to obtain samples from these sites. There are two options for doing so: (1) deploying sample takers to each acceptance facility to obtain samples within the regular DSNY delivery framework, or (2) diverting DSNY collection vehicles to a subset of acceptance facilities under a special arrangement for this project. Ultimately, based on input from SMRNY and DSNY, a subset of acceptance facilities were selected to host sampling and sorting, and selected DSNY collection vehicles were diverted to these acceptance facilities by special arrangement. Table 2-22 lists the host acceptance facilities for the 2013 WCS.

**Table 2-22 Acceptance Facilities Which Hosted Sampling**

Facility Name	Location	Material(s) Sampled
Varick Transfer Station	123 Varick Avenue Brooklyn, NY 11237	Refuse
Review Transfer Station	38-50 Review Avenue Queens, NY 11101	Refuse
Staten Island Transfer Station	310 West Service Road Staten Island, NY 10314	Refuse
Visy Paper - Staten Island	4435 Victory Boulevard Staten Island, NY 10314	Paper
IWS Transfer Station	375 Route 1&9 South Jersey City, NJ 07306	Refuse
Sims Metal Management - Bronx Transfer Station	850 Edgewater Road Bronx, NY 10474	MGP, Paper

## 2. GENERAL STUDY DESIGN

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Facility Name	Location	Material(s) Sampled
Sims Metal Management - Claremont	1 Linden Avenue East Jersey City, NJ 07305	MGP
Harlem River Yard	98 Lincoln Avenue Bronx NY 10454	Refuse

### 2.10 SORTING SITE

Significant space was needed to perform the sorting activity. DSNY made available the Plant 2 Building at Fresh Kills on Staten Island, accessible through the West Service Road entrance, for use as the sort location. Work site layouts are included in Appendix E.

## 3 SAMPLING LOGISTICS

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### 3.1 INTRODUCTION

This section summarizes the sampling logistics and procedures.

### 3.2 STAFFING

Sampling of materials was performed by traveling teams that deployed each evening from the sort location to the acceptance facility. The Sampling Team consisted of three primary roles:

- ◆ The **Sampling Supervisor** was responsible for overall management and training of the members of the sampling team. The Supervisor was responsible for receiving and validating City-provided load delivery data. The Supervisor created assignments and deployed personnel and equipment on a daily basis. The Sampling Supervisor was ultimately responsible for the overall success of the sampling effort.
- ◆ **Sampling Managers** led the actual sampling on a nightly basis. They were responsible for driving equipment and other staff to the assigned acceptance facility, coordinating with the acceptance facility management and operations staff, and carrying out the acquisition of samples based on the targeted loads assigned. The Sampling Manager in particular trained and coordinated with loader operators in the proper taking of samples from tipped loads.
- ◆ **Sampling Helpers** supported the physical sampling process, including loading of sampled material into the carts for transport back to the sorting location. Sampling Helpers assisted with acceptance facility clean-up to the extent it was necessary.

It should also be noted that DSNY deployed a staff person to each acceptance facility each night of the study to assure cooperation from the acceptance facility and from DSNY equipment operators charged with delivering targeted loads.

Appendix A lists the Project Team staff responsible for the various roles in each of the two seasons.

### 3.3 PROVISION OF EQUIPMENT

Sampling teams required transportation for collecting samples from acceptance facilities, containers for the samples themselves, and a variety of small tools to aid in sample taking. Personal protective equipment (PPE) was also required at the facilities. Table 3-1 summarizes the vehicles, equipment, and PPE used by the Sampling Team.

**Table 3-1 Sampling Team Equipment Needs**

Work Equipment	Personal Protective Equipment
<ul style="list-style-type: none"> <li>• Box truck to transport staff and samples</li> <li>• 95 gallon carts to hold samples</li> <li>• Shovels</li> <li>• Three prong rake</li> <li>• Broom</li> <li>• Crowbar</li> <li>• Portable scale (0.1 to 300.0 lb)</li> <li>• Replacement batteries for scale</li> <li>• Clipboards</li> <li>• Digital cameras</li> </ul>	<ul style="list-style-type: none"> <li>• Small first aid kit</li> <li>• Reflective vest</li> <li>• Steel toed boots</li> <li>• Work gloves</li> <li>• Eye protection</li> <li>• Dust mask</li> <li>• Tyvek suit</li> </ul>

### 3. SAMPLING LOGISTICS

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It should be noted that participating acceptance facilities all provided a bobcat, skid steer or loader and an operator to assist in acquiring samples from tipped loads. Access to restrooms was made available by the acceptance facilities.

Also, although Sampling Managers carried digital cameras, the low lighting at host acceptance facilities generally prevented effective use of the cameras for all but a few bulky items, which were recorded when the Sampling Manager had a question about the proper assignment of the bulky item to a category.

#### 3.4 SAMPLING COLLECTION TRAINING

Prior to the beginning of each season the Sample Collection Team completed one or two days of project-specific training. The first day was spent verifying the driving directions, ensuring the collection vehicles had sufficient overhead clearance to reach the sample sites without incident, and reviewing the operation of the sample collection vehicles.

The Sample Collection Team then completed one night of training prior to the start of the study. As part of the training the Team:

- ◆ Reviewed the sampling procedures to ensure that all staff were familiar with the project-specific processes for collecting samples and establish a consistent collection method to reduce the sources of sampling bias.
- ◆ Reviewed the project field forms to ensure the proper documentation of samples and create a chain of custody necessary for resolving any sampling questions.
- ◆ Reviewed the material definitions to assist with the proper classification of bulky materials.
- ◆ Collected practice samples at several of the sampling sites to help establish consistent sampling procedures and to familiarize sampling site staff with the sampling procedures.
- ◆ Practiced the bulky weight collection and reporting processes to ensure that bulky weight processing is consistent and that the documentation was complete and accurate. Because bulky items were left at the sampling site, proper documentation by sampling staff was critical to the characterization process.

During the first season, the Sample Collection Team collected four samples over the course of the practice night and delivered the samples to the sample sorting team. The sorting team used the samples to practice and refine the sorting procedures described elsewhere in the document. By the second season, it was not necessary to obtain “practice samples” and regularly scheduled sampling began on the first scheduled night.

#### 3.5 SAMPLING COORDINATION WITH DSNY

Prior to the field data collection, it was necessary to provide the target list of routes and develop a procedure for communicating with DSNY each day of the study to assure targeted routes would be delivered on schedule.

The Project Team supplied the list of randomly selected routes to DSNY in advance of the study each season. DSNY was responsible for scheduling targeted routes to be delivered to the host acceptance facilities each night. The daily list of routes came to be known as the “Rizzo Sheet,” named after the DSNY supervisor responsible for the internal coordination.

Each night, DSNY would compile the specific truck numbers and deploy equipment operators to deliver targeted loads to the acceptance facilities. This data was transmitted via e-mail to the Project Team, as well as to DSNY and SMRNY project managers, on the nightly Rizzo Sheet. The Project Team was responsible for verifying the accuracy of the Rizzo Sheet, recording arrival times, and returning the completed Rizzo Sheet back to DSNY after the last sample was obtained. This process was performed via e-mail. A copy of the blank and completed Rizzo Sheet is included in Appendix D.

### 3.6 SAMPLE COLLECTION

The sample collection procedure for all three sectors followed the same basic methodology; the only variation was the required sample weight. The minimum Refuse sample weight was 200 pounds, the minimum MGP and Paper sample weight was 100 pounds. All sampling occurred between midnight and 8am, Monday through Saturday. Samples were collected the day after the route was run. Routes run Monday were sampled on Tuesday beginning at midnight. Routes run on Saturday were sampled beginning at midnight on Monday.

The Sample Collection Team consisted of one consultant Sampling Supervisor, consultant Sampling Managers, temporary labor Sampling Helpers, and DSNY professional staff. One consultant Sample Manager, one temporary Laborer, and one DSNY Professional were present at each sampling location each night. The consultant Sampling Supervisor alternated between sites ensuring the consistent application of sampling procedures and troubleshooting issues.

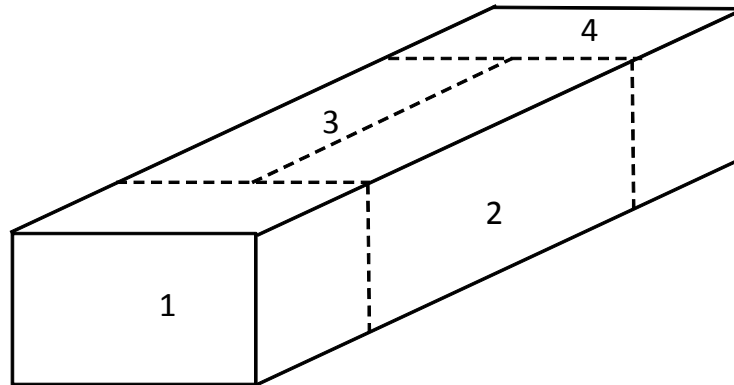
The sample collection procedure for a single day is detailed in the following 10 steps. This procedure was repeated each sampling day.

- ◆ **Step 1:** DSNY provided the truck numbers for each morning's sampling (Rizzo Sheet) by noon the previous day.
- ◆ **Step 2:** DSNY reported any changes to the expected truck numbers by 9pm.
- ◆ **Step 3:** The Sampling Team met each evening at 10pm to review and resolve any questions regarding the previous evening's sampling and paperwork as well as to review the upcoming night's work. The team addressed any special circumstances or logistics and reviewed the sampling protocols to ensure consistency across teams. Sampling Managers were given the specific list of targeted loads for their acceptance facility from the Rizzo Sheet.
- ◆ **Step 4:** The Sample Collection Teams arrived at their respective acceptance facilities by 11:45pm.
- ◆ **Step 5:** DSNY professional staff at each facility verified the expected truck numbers with DSNY central dispatch again and communicated any changes to the Sampling Managers.
- ◆ **Step 6:** When a selected vehicle arrived at the acceptance facility, it scaled in normally, and then the DSNY professional staff directed the vehicle to the area of the tipping floor designated for study vehicles. The selected vehicle tipped its load in the designated area and returned to its garage.
- ◆ **Step 7:** The Sampling Manager selected a sample from the tipped load using an imaginary four-cell grid (as shown in Figure 3-1) superimposed over the dumped material. The Sampling Manager directed a facility-provided loader and operator to collect a sample from a randomly selected cell within this grid. If the selected cell was inaccessible then the selected cell number plus one was used (if cell four was inaccessible then cell one was used).

### 3. SAMPLING LOGISTICS

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Figure 3-1 Four Cell Grid Used for Sample Collection



- ◆ **Step 8:** The Sampling Manager directed the facility loader operator to collect a scoop of material from the selected cell. Material was raked from the loader bucket into 96 gallon carts until the required sample size was achieved, typically between one and two full carts for Refuse; between one and three carts for MGP; and one cart for Paper. Material was raked beginning at the left side of the bucket and material was removed in vertical slices from the bucket to ensure that all bagged, unbagged, large, and small items were raked into the carts. The Sample Collection Team targeted 205-225 pounds for Refuse samples, 120-140 pounds for MGP, and 105-125 pounds for Paper to ensure that the minimum sample weights were maintained. Each Sample Collection Team had a portable scale used to weigh samples as they were collected. The Sampling Manager completed and attached to each cart a Sample Placard with all sample information. An example of the Sample Placard is included in Appendix D. The Sampling Manager also noted information about that sample in the Rizzo Sheet, an example of which is also contained in Appendix D.
- ◆ **Step 9:** When bulky items were encountered within a sample, they were set aside and weighed at the sampling facility. The Sampling Manager estimated the fraction of the bulky item that was contained in the sample and noted the weight of the bulky item (or fraction thereof) along with a description on the Sample Placard and on the daily vehicle selection sheet.
- ◆ **Step 10:** Before leaving the sampling facility the Sampling Manager reviewed the Rizzo Sheet for completeness and accuracy. Rizzo Sheets were returned to the sampling supervisor at the end of each night. The Sampling Supervisor provided to the Sorting Supervisor the Rizzo Sheet at the end of each sampling shift.

#### 3.7 DETAILED SUMMARY OF SAMPLES

Appendix B contains a detailed summary of the samples that were obtained for this project.



## 4 SORTING LOGISTICS

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### 4.1 INTRODUCTION

This section summarizes the sorting logistics and procedures.

### 4.2 STAFFING

Sorting of materials was performed by dedicated teams at the sort location. The Sorting Team consisted of five primary roles:

- ◆ The **Sorting Operations Supervisor** was responsible for overall management of the sorting team and sort facility. In this role, the Sorting Operations Supervisor tracked and assigned incoming samples to Crew Chiefs; verified sort team staffing assignments; tracked field data forms; and managed all operating needs of the sorting team and facility. The Sorting Operations Supervisor was ultimately responsible for the overall success of the sorting effort
- ◆ The **Safety Manager** was responsible for planning and conducting on-site health and safety training for all sorting personnel and performed work-site safety inspections. The Safety Manager managed the health and safety accident prevention, accident reporting and emergency response plans. At the end of each sort, the Safety Manager reviewed the safety performance.
- ◆ The **Sort Training Manager** was responsible development, implementation, and verification of the sorting process required to segregate all materials in the Refuse, Paper and MGP streams to their respective main sort or subsort categories. The Sort Training Manager participated in the sorting site set-up and the development of sorting processes and field forms. The Sort Training Manager led a training day attended by the Project Team professional staff to pilot test the sorting procedures and refine both the procedures and the field data forms.
- ◆ The **Main Table Crew Chiefs** were responsible for managing the sorting at the Main Sort Table for MGP, Paper and Refuse. The Main Table Crew Chiefs were responsible for managing a specific sort table, including crew management, sorting productivity and accuracy, data recording, work site health and safety, and cleaning up at the end of the day. The Main Table Crew Chiefs were also responsible for coordinating the handoff of materials from the Main Sort Table to the Subsort Table Crew Chiefs.
- ◆ The **Subsort Table Crew Chiefs** were responsible for managing the sorting at the Bottle, Can and Carton Subsort Table or the Resin Subsort Table. The Subsort Crew Chiefs were responsible for managing their specific sort table and for helping out on the Main Sort Table if requested. Subsort Crew Chiefs were also asked to assist on the other subsort table if their subsorting was completed and additional resources were needed to keep the entire sorting process on schedule. Subsort Crew Chiefs were professional staff with recycling and waste management experience and primarily worked without the assistance of sorters. They were responsible for sorting productivity and accuracy, data recording, work site health and safety, and cleaning up at the end of the day.
- ◆ **Sorters:** The Project Team included two local light-industrial temporary labor companies which consistently supplied workers to serve as sort labor, primarily on the Main Sort Table. Sorters were trained and managed to conduct the majority of the sorting of materials on the Main Sort Tables. Sorters also worked in cooperation to weigh out sorted samples, and to maintain a clean work area during and after each day of sorting.

DSNY staff participated in the sorting process on a regular basis during both seasonal sorts, and assisted on the Refuse, MGP and Paper sort and subsort tables.

Appendix A lists the Project Team staff responsible for the various roles in each of the two seasons.

## 4. SORTING LOGISTICS

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### 4.3 PROVISION OF EQUIPMENT

The Sorting Team required a variety of specialized equipment to manage the sorting operation. Personal protective equipment (PPE) was also required. Table 4-1 summarizes the equipment and PPE used by the Sorting Team.

**Table 4-1 Sorting Team Equipment Needs**

Work Equipment	Personal Protective Equipment
<ul style="list-style-type: none"><li>• Pick-up truck to transport supplies</li><li>• Sort tables</li><li>• 20-gallon bins for sorted materials</li><li>• 5-gallon buckets for sub-sorting</li><li>• Shovels</li><li>• Brooms</li><li>• Work table and chairs</li><li>• Crowbar</li><li>• One portable scale (0.1 to 300.0 lbs.) per sort table</li><li>• Clipboards</li><li>• Digital cameras</li><li>• Notebook/laptop/scanner</li><li>• Open top container for discarding sorted samples</li><li>• Coolers with ice and fresh water</li><li>• Fire extinguisher</li></ul>	<ul style="list-style-type: none"><li>• First aid kit</li><li>• Steel toed boots</li><li>• Work gloves and glove liners</li><li>• Eye protection</li><li>• Dust mask (optional)</li><li>• Tyvek suit</li></ul>

The Project Team also supplied men's and women's portable restroom facilities, and a roller sink with fresh water and soap.

The Sorting Team spent two or three days setting up the sort areas at the sort facility prior to each seasonal sort. This time included assembly of sorting and subsorting tables; labeling of bins for sorted materials; charging, configuring, and testing the scales to be used for weigh-outs; acquisition of remaining tools and equipment; and final preparation of the sort facility for sorting.

### 4.4 SORTING FACILITY CONFIGURATION

During the first season sort, sorting was performed with two Refuse sort crews and one MGP sort crew. During the second season, sorting was performed with one MGP and one Paper sort crew. Appendix E contains a schematic of the sorting facility each season that shows the layout of the Main Sort and Subsort tables, scales, and carts containing samples for sorting.

### 4.5 TRAINING AND TESTING OF SORT PROCEDURES

Given the complexity of the sorting operation, it was critical to convene the professional staff Crew Chiefs (Main Table and Subsort Table) for the purpose of sorting several samples and validating sorting procedures (which are described in detail in this section).

The week prior to the first full field data collection event, the Sorting Team obtained four samples of Refuse and one sample of MGP for use in testing sort procedures. The Project Team professional staff spent a full day sorting two of these samples, with frequent pauses and discussions to validate and in

some cases update sorting, sub-sorting, and weigh-out procedures. Key objectives of the training day are itemized below:

- ◆ Understand the sorting table configuration and flow of materials from carts to final weigh-out.
- ◆ Learn the sort and sub-sort categories so that professional staff could train the Sorters.
- ◆ Determine how to most evenly split the sorting requirements between the Main Sort Table and the Sub-sort tables. This was a critical exercise, and resulted in slightly different protocols being refined for Refuse, MGP and Paper (described below).
- ◆ Observe the mix of bottles, cans and cartons requiring sub-sorting so that appropriate sort bins could be labeled and positioned to hold sorted items by type.
- ◆ Gain a sense of the time requirements for weighing out and setting up at the Main Sort and Sub-sort tables.
- ◆ Verify Sorter staffing requirements.
- ◆ Identify the strengths of the assigned Crew Chiefs and make final assignments of each Crew Chief to the sort or sub-sort table where that person's abilities would be best employed.
- ◆ Review health and safety requirements with professional staff.

### 4.6 HEALTH & SAFETY

The Project Team included an OSHA-certified, waste characterization experienced health and safety professional to lead the project safety program. On this project, the health and safety program generally conformed with MSW Consultants' official Safety and Health Plan, which is included in Appendix F. Additionally, the Safety Manager prepared and delivered a PowerPoint safety presentation to the entire Sorting Team on the morning of the first day of sorting each season. This presentation is included in Appendix G.

### 4.7 SORTING PROCEDURES

It was a requirement for this project to sort all material streams into the same set of material categories and sub-sort categories. Accordingly, the sorting procedures for MGP, Paper and Refuse are all relatively similar, and this section is written to reflect the generic sorting procedures. Where differences arose between material streams, it is pointed out.

Each sorting crew was responsible for a total of three sort tables, each with a particular role and layout:

- ◆ The **Main Sort Table** was where the entire sample was first emptied and sorted into many final categories, with bottles/cans/cartons and resins separated for further sub-sorting.
- ◆ The **Bottle/Can/Carton Sub-sort Table** received all bottle, can, carton and film drink pouch categories, which were then sorted into the different types of beverage and non-beverage products.
- ◆ The **Resin Sub-sort Table** received the majority of plastics categories for further breakdown into specific resin codes.

The Main Sort area received the samples and was used primarily for the separation of the recyclables and sorting of Refuse material categories. The Sub-sort Tables provided the detailed, specialized sorting required of the containers and plastic resins into final sub-categories.

It should be noted that the Paper sort generally found only trace amounts of materials requiring bottle/can/carton or resin sub-sorting. As a consequence, only one sub-sort table was needed for the Paper sort team, with all sub-sorting being performed at this single table.

## 4. SORTING LOGISTICS

### 4.7.1 MAIN SORT TABLE

The Main Sort Table equipment included a 4' x 8' sorting table supported by two steel saw horses and a 4' x 8' wood/hardware cloth (1/2 inch) to screen out fines. The table was surrounded by an assortment of 20-gallon recycling bins and several 35-gallon wheeled carts for the more voluminous material categories. The 20-gallon and 35-gallon recycling bins were labeled according to the Main Sort Table material categories (as shown in Appendix C, Exhibit C-2). Table 4-2 summarizes the material categories requiring the large recycling bins and/or two bins/carts.

**Table 4-2 Material Categories Requiring Large Bins (or a Second Bin)**

MGP	Paper	Refuse
Garbage Bags	Garbage Bags	Garbage Bags
PET Bottles	OCC	Compostable Paper
HDPE Bottles	Newspaper	Mixed Low Grade Paper
	High Grade Paper	Yard Waste
	Mixed Low Grade Paper	

Samples were queued by the Sorting Operations Supervisor at each Main Sort Table. The Crew Chief, assisted by the Sorters, would first lift and empty the 95-gallon sample carts onto the table, a task that required two sorting staff.

After the initial portion of a sample was deposited on the sort table, the sort team would immediately begin identifying and placing the materials in their respective, labeled containers or passing them along the table to the sorter closest to a given sort container. If materials in the sample were held within a plastic bag, the bag was torn open, its contents unloaded onto the screen, and the bag passed to the end of the table for placement into one of the plastic film sort containers. This sorting process was repeated with sample's second and/or third carts until all identifiable sample materials had been removed from the sample screen and placed into their appropriate sorting containers.

When the sample content atop the screen was reduced to an amalgamation of miscellaneous small pieces (2-inch minus), the Sorting Operations Supervisor would allocate the materials by handfuls to appropriate broad material categories including but not limited to Compostable Paper, Food Waste, Miscellaneous Organics; etc. The portion of the sample that fell through the 1/2" mesh screen onto the sorting table was characterized as "Fines." The fines were swept from the table with a push broom into a 20-gallon sampling bin.

At this point, members of the Sort Team typically delivered bins requiring subsorting to the Resin Subsort table and the Bottle/Can/Carton Subsort table for further characterization. All of the remaining sort containers, with contents, were weighed at the Main Sort Table's designated electronic scale, and the weights entered onto a data sheet by the Crew Chief. Sorters were asked to specialize in certain material groups, with someone handling the paper categories, another the plastics, another the glass and metals, and so on. In this way, sorters became highly knowledgeable in a short period of time as to the definitions of individual material categories.

The Crew Chief monitored the bins as each sample was sorted, resorting materials that were improperly classified. Open bins allowed the Crew Chief to see the material at all times. The Crew Chief also verified the purity of each component during the weigh-out (discussed below).

As the data were recorded, the contents of the weighed and recorded sample bins were dumped into the 95-gallon wheeled carts for disposal. When the sample sort was completed and the sorted materials

moved outside of the Main Sort area, the sort container array was replicated on the same footprint to help maintain the sorters' familiarity with the location of 78 separate sorting bins and carts.<sup>1</sup>

### 4.7.2 RESIN SUBSORT TABLE

One professional staff was assigned to the Resin Subsort Table. Multiple categories of plastics that had been sorted at the Main Sort Table were examined, further characterized and weighed: plastic films, single use plastics, expanded polystyrene, rigid plastics, appliances and other non-packaging. A complete list of the main sort categories that were sent to the resin subsort table is shown in Section 2, Table 2-20. Items within the individual categories were sorted by resin type into 5-gallon sample buckets. Rigid containers were classified into four sub categories, as were non-packaging plastics, prior to being separated by resin type. The list of resin subsorts is shown in Table 2-19. After being separated by resin type, each category of plastics was weighed out before sorting items in another plastics category. Any plastic food and beverage containers discovered in the mix were diverted to the bottle/can/carton Subsort Table for classification and weighing. Non-plastics were returned to the Main Sort Table for weighing and recording.

### 4.7.3 BOTTLE, CAN AND CARTON SUBSORT TABLE

The Bottle/Can/Carton Subsort characterized beverage, food, and non-consumable bottles, cans and film pouches pre-sorted at the Main Sort Table by material and type. One, two, and at times, three professional staff conducted the subsort. The subsort began with the delivery of all bottles, cans, cartons and pouches from the Main Sort area, shown in Section 2, Table 2-18. In addition, any food or beverage containers sorted at the Resin Subsort table were transferred to this Subsort Table for characterization and weigh-out.

Materials in the subsort containers were deposited onto the sort table then separated into a combination of 5-gallon plastic buckets or 20-gallon recycling bins depending on material volume. Bottles, cans and cartons were sorted into 15 product types as shown in Table 2-17. Additional sorting was performed according to the colors of plastic and glass containers in the sample. The sorting buckets and bins were weighed at the Subsort Table scale and the weights recorded onto the data sheet. After the materials were weighed, the contents of the sorting buckets and bins were deposited into one or more 95-gallon wheeled carts for disposal. This weigh-out process was repeated for the all of the materials categories and product types.

The following provides some sorting details by material category:

- ◆ Plastic bottles, jugs, and other containers were typically sorted first due to their volume. HDPE plastics were divided into natural and colored fractions, and then further sorted into 15 possible product types.
- ◆ PET plastic containers were separated into clear/green and colored fractions and then by product type. "Other" color PET was predominantly blue (including light blue tints), although also included amber, orange, yellow, red, painted, and opaque.
- ◆ Aluminum and steel containers were sorted by product type simultaneously at opposite ends of the sorting table. This procedure evolved due to the frequent presence of aluminum pet food cans in the steel fraction and vice versa. By sorting the both metal types before either was weighed, the need to enter additional weights to the data sheet was eliminated.
- ◆ Glass container sorting varied depending on substream. For the Refuse and Paper samples, glass arrived with all colors mixed, so subsorting first required separation by color. There were not many

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<sup>1</sup> 78 material categories were used for the actual sort to assure accurate subsorting. As described previously in Section 2.8, a total of 70 primary categories were defined for reporting purposes.

## 4. SORTING LOGISTICS

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glass containers in either the Refuse or Paper stream. Conversely, glass was sorted by color on the Main Sort Table for the MGP stream, and arrived at the subsort table in multiple containers.

- ◆ Distinguishing the product type was easier than expected, with most containers surprisingly intact and containing discernible product labels. The sort by product type was complicated only in distinguishing whether bottles had held pure fruit juice, punch, or tea.
- ◆ Aseptic/gable top cartons and film pouches were typically sorted as dairy, punch or 100% fruit juice.
- ◆ The sorting of plastic bottles other than #1 PET and #2 HDPE were the most challenging. Considerable scrutiny was required to identify whether the items were marked with resin codes #3 PVC, #4 LDPE, #5 PP, #6 PS or #7 Other, Dual labeled, labeled as BioPlastic, or unlabeled. Containers coded #1 PET and #2 HDPE were occasionally found in the sorting bin and were weighed and assigned to their proper resin.

### 4.7.4 CONTAINER UNIT COUNTS

Although not a requirement for every sample, a number of ad hoc unit counts were performed during the beverage container subsort to compile estimated weights per container for the range of material types. After each material weigh-out, the number of items making up the weight of the material was counted and recorded on a separate data sheet. Broken glass containers were not included in the unit count.

Although not in the sort plan, an effort was undertaken to establish the weight of a fixed number of containers for a given material. For example, 100 assorted 12 oz. PET water bottles were accumulated and weighed to determine that the 100 water bottles weighed 3.4 pounds. This effort was initiated late in the sort calendar and was thus limited to only a subset of bottles, cans and cartons. These unit weights are included as the final exhibit (Exhibit 38) in Appendix K, along with selected unit counts from industry sources.

### 4.7.5 SORTING PROCEDURES SCHEMATICS

Appendix H contains a set of schematics illustrating the detailed breakdown of sort categories at the Main, Resin Subsort, and Bottle/Can/Carton Subsort Tables. Appendix H contains the following schematics:

- ◆ **Main Sort Table Procedures:** Describes the materials that were sorted entirely at the Main Table, and distinguishes the categories that were passed on to Subsort Tables for further sorting. The Main Tables had substantially the same procedures for Refuse, MGP and Paper. However, a second schematic is shown for the Paper Main Table to reflect the slightly less complicated requirements of the Paper sorting.
- ◆ **Resin Subsort Procedures:** Shows how each plastic category was further processed and separated into one of 14 resin types. Relatively more resin subsorting was performed at the Subsort Table for the Paper. Both resin subsorts are shown separately.
- ◆ **Bottle/Can/Carton Procedures:** Shows the same process for further segregating bottles, cans, cartons and film pouches in to numerous product types. All bottles, cans, cartons and film pouches were sent to the Subsort Table for the Paper samples; this is shown in a separate exhibit.

## 4.8 DELIVERY OF FIELD FORMS

As mentioned above, sort field forms were filled in by hand during the weigh-out. The Sorting Operations Supervisor spent considerable time traversing the sorting areas to collect completed field forms for review, scanning, and data entry. Each field form was confirmed to have the correct sample

## 4. SORTING LOGISTICS

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identification number, and the three field forms (Main, Resin, and Beverage<sup>2</sup>) were stapled together along with the Sample Placard and placed in the portable office for safekeeping and processing.

Appendix I contains the final sorting field forms.

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<sup>2</sup> During the actual sorting, the Subsort Table where bottles, cans, cartons and pouches were sorted was referred to as the “Beverage Container” Subsort Table, and field forms are labeled this way in the Appendix. For purposes of reporting on the study, it was realized that this table was more properly termed the Bottle/Can/Carton Subsort Table to reflect that more than just beverage containers were evaluated at this station.

## 4. SORTING LOGISTICS

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## 5 DATA MANAGEMENT AND ANALYSIS

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### 5.1 INTRODUCTION

Like all waste characterization studies, the 2013 WCS required the use and management of a large number of complicated field data collection forms which required careful design and management. Hard copy forms, rather than electronic/digital data recording, were used for the project because manually filled forms better handled the complexity of the sorting requirements for individual samples, and also because it was known that the tracking and management of these forms could be closely controlled.

This section describes the overall data management practices employed on the project, and also summarizes the statistical methods used for the analysis.

### 5.2 STAFFING

Data entry, management and analysis were performed by a dedicated team that performed the following roles:

- ◆ The **Data Manager** was responsible for the development of the project database and for developing the statistical and other queries needed to quality-control and analyze the data. The Data Manager worked closely with the Data Entry Architect in this process. For this project, the Sampling Supervisor was also the Data Manager.
- ◆ The **Field Forms and Data Entry Architect** developed the field forms based on final material categories identified by SMRNY and DSNY, and constructed customized data entry forms. The Data Entry Architect worked closely with the Data Manager to assure seamless and consistent upload of entered data into the statistical database for statistical analysis.
- ◆ The **Assistant Data Manager** was responsible for running the developed queries and conducting quality-control data checks. The Assistant Data Manager worked closely with the Data Manager for all data analysis.
- ◆ The **Data Entry Clerk** was responsible for receiving the field forms from the Sort Operations Manager and immediately scanning the forms into digital format for upload to backup. The Data Entry Clerk subsequently entered the data into the custom spreadsheet developed for this project by the Data Entry Architect.

Other project team members assisted with a wide array of quality control review. Appendix A lists the Project Team staff responsible for the various roles in each of the two seasons.

### 5.3 FIELD FORMS

There were two sets of field forms in used for the project:

- ◆ The Sampling Team used simple lists of nightly trucks and routes to track the targeted samples arriving at each acceptance facility. These lists were derived from the pre-selected routes sampled for this project, managed via the Rizzo Sheet in communications with DSNY. Informational placards were affixed to each sample for transport from acceptance facilities to the sorting facility. The forms and placards associated with the sampling process are contained in Appendix D.
- ◆ The Sorting Team relied on complex data collection forms that required careful tracking from Sorting Operations Supervisor to Crew Chiefs, and back to Sorting Operations Supervisor for processing and entry. The customized sorting forms for this project are contained in Appendix I.

### 5.4 DOCUMENT CHAIN OF CUSTODY

This section describes the chain of custody for sorting field forms.

## 5. DATA MANAGEMENT AND ANALYSIS

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Samples were assigned each day to each sort table by the Sorting Operations Supervisor, who was ultimately responsible for all field sorting forms. The Sorting Operations Supervisor pre-filled the headers of sort forms based on the placards affixed to each sample cart. The pre-filled sort forms were then provided to the team of Crew Chiefs who simultaneously received the physical sample of material (whether Refuse, MGP or Paper). Crew Chiefs stored the active sort forms on their work tables next to each sorting table.

After each sample was sorted, Crew Chiefs were singularly responsible for overseeing all weighing and data recording of each manually sorted sample. Each bin containing sorted materials from the just-completed samples was carried over to a digital scale. Sorters assisted with carrying and weighing the bins of sorted material, and the Crew Chiefs recorded all data. In the case of sub-sort tables, the majority of the sorting and weighing was performed by professional staff without the assistance of Sorters.

The Crew Chiefs populated the field forms by hand to record the sorted sample weights, as well as to record other sampling requirements. For materials in a labeled bin or bucket, the gross weight was recorded and the bin/bucket tare weight backed out during the data analysis. For the sub-sort tables and for larger items that did not fit into a bin, the net weight was recorded and annotated on the data entry forms. Specific coding on the field forms followed the convention of:

- ◆ Gross weights entries had no special notation;
- ◆ Net weights entries were circled on the field form;
- ◆ Crew chiefs had the option to enter the gross weight, a subtraction sign, and the tare weight of a bin or bucket. This formula was circled. to reflect to the data entry staff that the tare weight needed to be deducted

As samples were weighed out, each field form containing the sorted weights of each sample was returned to the Sorting Operations Supervisor for matching against the daily sample sheet to assure accurate tracking of the samples each day. The Sorting Operations Supervisor assembled all field forms and the incoming placard for each sample, and passed this package of forms to the Data Entry Clerk and Project Manager for scanning and data entry.

Appendix J contains a flow chart of the sorting field form chain of custody. This flow chart also contains the steps of quality control performed on the data once it was scanned and entered into the database.

### 5.5 STATISTICAL ANALYSIS

#### 5.5.1 BASIC STATISTICS

Material composition estimates were calculated using a method that gives equal weighting or “importance” to each sample within a given substream (MGP from Manhattan, for example). Confidence intervals (error ranges) were calculated based on assumptions of normality in the composition estimates. In practice, most material categories were normally distributed in the waste stream in the sense that they appeared in most samples. Non-normally distributed materials were those that showed up infrequently – such as individual HHW items. Fortunately, non-normally distributed material categories in the municipal solid waste stream tend to occur in low percentages.

In the descriptions of calculation methods, the following variables are used frequently:

- $i$  denotes an individual sample;
- $j$  denotes the material type;
- $g_j$  is the weight of the material type  $j$  in a sample;
- $w$  is the weight of an entire sample;

## 5. DATA MANAGEMENT AND ANALYSIS

$r_j$  is the composition estimate for material  $j$  ( $r$  stands for ratio);

$a$  denotes a Borough ( $a$  stands for area);

$s$  denotes a particular substream (MGP, Paper, or Refuse); and

$n$  denotes the number of samples in the particular group that is being analyzed at that step.

The following method was used to estimate the material composition for each Borough.

For a given substream (that is, for the samples belonging to the same material stream within the same Borough), the composition estimate denoted by  $r_j$  represents the ratio of the component's weight to the total weight of all the samples in the substream. This estimate was derived by summing each component's weight across all of the selected samples belonging to a given substream and dividing by the sum of the total weight of material for all of the samples in that substream, as shown in the following equation:

$$r_j = \frac{\sum_i c_{ij}}{\sum_i w_i}$$

where:

$c$  = weight of particular component;

$w$  = sum of all component weights;

for  $i = 1$  to  $n$ , where  $n$  = number of selected samples; and

for  $j = 1$  to  $m$ , where  $m$  = number of components.

The confidence interval for this estimate was derived in two steps. First, the variance around the estimate was calculated, accounting for the fact that the ratio includes two random variables (the component and total sample weights). The variance of the ratio estimator equation follows:

$$\text{Var}(r_j) \approx \left(\frac{1}{n}\right) \left(\frac{1}{\bar{w}^2}\right) \left(\frac{\sum_i (c_{ij} - r_j w_i)^2}{n-1}\right)$$

where:

$$\bar{w} = \frac{\sum_i w_i}{n}$$

(For more information regarding Equation 2, refer to Sampling Techniques, 3rd Edition by William G. Cochran [John Wiley & Sons, Inc., 1977].)

Second, precision levels at the 90 percent confidence level were calculated for a component's mean as follows:

$$r_j \pm (z \sqrt{\text{Var}(r_j)})$$

where  $z$  = the value of the  $z$ -statistic (1.645) corresponding to a 90 percent confidence level.

## 5. DATA MANAGEMENT AND ANALYSIS

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Composition results for substreams were then combined, using a weighted averaging method, to estimate the composition of larger portions of the material stream. The relative tonnages associated with each substream served as the weighting factors. The calculation were performed as follows:

$$O_j = (p_1 * r_{j1}) + (p_2 * r_{j2}) + (p_3 * r_{j3}) + \dots$$

where:

$p$  = the proportion of tonnage contributed by the noted substream (the weighting factor);

$r$  = ratio of component weight to total material weight in the noted substream (the composition percent for the given material component); and

for  $j = 1$  to  $m$ , where  $m$  = number of material components.

The variance of the weighted average was calculated as follows:

$$\text{Var}(O_j) = (p_1^2 \text{Var}(r_{j1})) + (p_2^2 \text{Var}(r_{j2})) + (p_3^2 \text{Var}(r_{j3})) + \dots$$

### 5.5.2 AGGREGATING RESULTS

Composition results for all substreams were then combined, using a weighted averaging method, to estimate the composition of the entire City-wide materials stream. The relative tonnages associated with each material stream served as the weighting factors. The calculation was performed as follows:

$$O_j = (p_1 * r_{j1}) + (p_2 * r_{j2}) + (p_3 * r_{j3}) + \dots$$

where:

$p$  = the proportion of tonnage contributed by the noted material stream (the weighting factor);

$r$  = ratio of component weight to total material weight in the noted material stream (the composition percent for the given material component); and

for  $j = 1$  to  $m$ , where  $m$  = number of material components.

The variance of the weighted average was calculated as follows:

$$\text{Var}(O_j) = (p_1^2 \text{Var}(r_{j1})) + (p_2^2 \text{Var}(r_{j2})) + (p_3^2 \text{Var}(r_{j3})) + \dots$$

### 5.5.3 COMPARISONS WITH PWCS AND 2005 WCS STATISTICAL ANALYSIS

The statistical methods described above for determining base composition and aggregating composition from borough to City level is, for all intents and purposes, completely comparable to the methods used in the PWCS. These methods make one technical refinement – the use of weights instead of composition percentages as the basis of the statistical analysis. Because the sample sizes in both the PWCS, 2005 WCS and the 2013 WCS were pre-weighed and identical, the results of the statistical analysis under both methods would be expected to be almost identical.

It is also worth noting two differences in the method of aggregating results between the PWCS and the 2013 WCS.

- ◆ **Borough-level Results:** Because it was not a requirement to obtain borough-specific results in the PWCS, samples were distributed in the PWCS in proportion to borough-level waste generation and

## 5. DATA MANAGEMENT AND ANALYSIS

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only Citywide composition was reported. Conversely, the 2013 WCS required borough-specific composition to be estimated, which then had to be weighted to estimate Citywide composition.

- ◆ **Annual vs. Average Weekly Generation as Basis for Weighting Factors:** Citywide Refuse, Paper and MGP composition estimates were aggregated to a Citywide Waste composition in both the PWCS and 2013 WCS. Further, as mentioned in the above bullet, the 2013 WCS required borough-level results to be aggregated to Citywide as a preliminary step. Field data collection for the PWCS was performed over the months of May and June 2004. It was determined in the PWCS that average weekly generation (measured in tons) would serve as the basis for aggregating the results from the three substreams into a Citywide Waste composition. Conversely, the 2013 WCS relied on actual quantities collected curbside by DSNY during FY13 (also measured in tons) as the basis for aggregating borough-level results to Citywide, and for combining Refuse, Paper and MGP into Citywide Waste. The Project Team notes that one of the key findings of the 2005 WCS was that waste composition appeared to be both consistent over seasons and consistent with the waste composition in the PWCS. Based on the consistency of composition across these studies, the Project Team believes either method of aggregation is valid, and that both methods would be expected to yield comparable outcomes.

In conclusion, it is believed that the results of the 2013 WCS can be reasonably compared to both the PWCS and the 2005 WCS, despite the aforementioned differences in statistical methods.

## 5. DATA MANAGEMENT AND ANALYSIS

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## 6 RESULTS: WASTES

### 6.1 INTRODUCTION

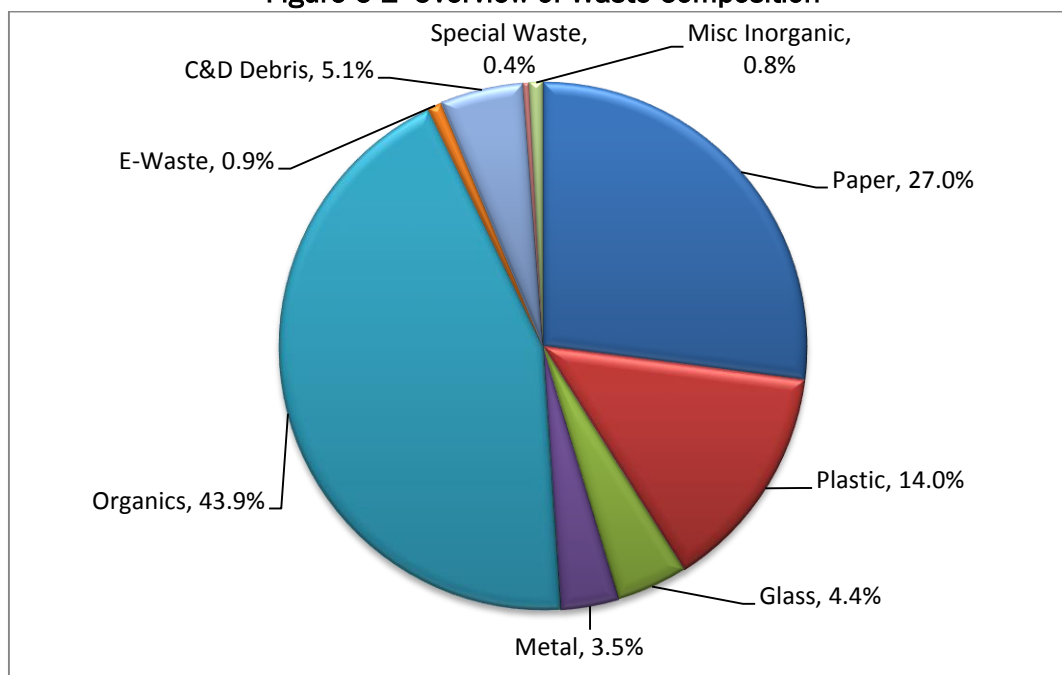
Complete and detailed numerical results are contained in Appendix K to this report, and electronic copies of these exhibits have been delivered to DSNY and SMRNY for their use. The purpose of this section is to highlight noteworthy findings via a combination of graphical and tabular summary data. Results in this section focus on the almost 3.1 million tons of Waste (Refuse + MGP + Paper) in DSNY curbside collections in FY13.

Throughout this section, for the sake of simplicity, results are presented in terms of percent composition by weight. An alternative means of presentation would be to provide results in terms of annual tons. Both percentage and tonnage data are included in Appendix K.

### 6.2 COMPOSITION

Figure 6-1 shows the breakdown of Wastes by the major material groups included in the study. As shown, Organics make up almost 44 percent of all City-collected Waste, with Paper contributing another 27 percent. The incidence of other materials diminishes significantly after the 14 percent contribution by Plastic.

**Figure 6-1 Overview of Waste Composition**



## 6 RESULTS: WASTES

Table 6-1 highlights the ten most prevalent individual material categories found in Waste. Food Waste is by far the most prevalent material at 18 percent, and several grades of recyclable and non-recyclable papers are also included in this list. As a group, these 10 materials comprise almost 62 percent of the Wastes collected by the City.

**Table 6-1 Top 10 Most Prevalent Materials in Waste**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	18.0%	18.0%	554,903
Mixed Low Grade Paper	9.3%	27.3%	286,715
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.5%	34.7%	230,253
Yard Waste	6.1%	40.8%	186,715
Plain OCC/Kraft Paper	4.4%	45.2%	136,039
Disposable Diapers/Sanitary Products	3.8%	49.0%	117,859
Non-C&D Wood	3.5%	52.5%	107,188
Newspaper	3.3%	55.8%	101,035
Other C&D Debris Not Elsewhere Classified	3.0%	58.8%	93,391
Fines	2.8%	61.6%	87,618
<b>Subtotal</b>	<b>61.6%</b>		<b>1,901,717</b>
All other materials	38.4%		1,184,132
<b>Total</b>	<b>100.0%</b>		<b>3,085,849</b>

Table 6-2 provides a detailed summary of Waste composition. This table also shows the confidence interval associated with the mean composition, to a 90 percent level of confidence. Finally, this table distributes the 3.1 million tons of Wastes collected in the curbside program in FY13 based on results of the study for the purpose of projecting the likely absolute quantity of each material contained in the Waste stream. Table 6-2 – as well as the underlying data for Figure 6-1 and Table 6-1 – can also be found as Exhibit 4d in Appendix K.



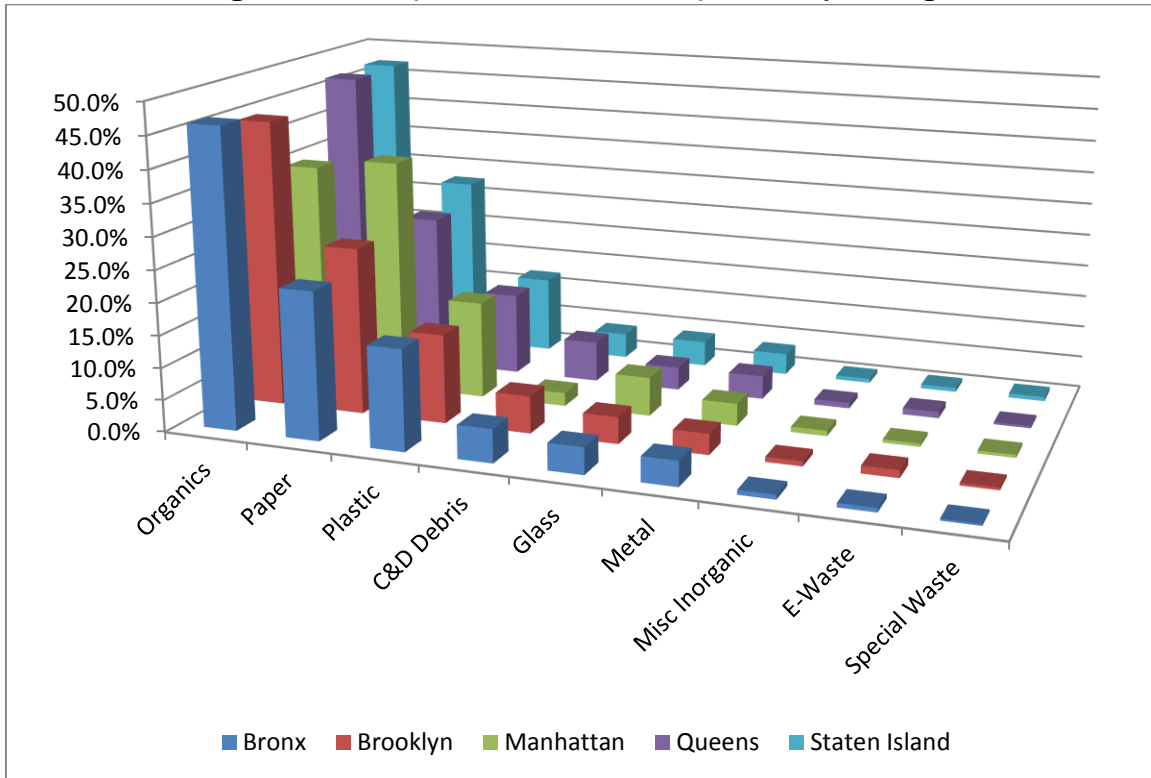
Table 6-2 Detailed Waste Composition

Material	Estimated		Estimated Tons	Material	Estimated		Estimated Tons
	Percent	+ / -			Percent	+ / -	
<b>Paper</b>	<b>27.0%</b>	<b>0.6%</b>	<b>834,438</b>	<b>Organics</b>	<b>43.9%</b>	<b>1.0%</b>	<b>1,355,236</b>
Newspaper	3.3%	0.2%	101,035	Yard Waste	6.1%	0.8%	186,715
Plain OCC/Kraft Paper	4.4%	0.3%	136,039	Food	18.0%	0.7%	554,903
High Grade Paper	1.3%	0.2%	40,977	Non-C&D Wood	3.5%	0.9%	107,188
Mixed Low Grade Paper	9.3%	0.4%	286,715	Textiles: Non-Clothing	2.2%	0.3%	69,419
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.5%	0.3%	230,253	Textiles: Clothing	2.8%	0.3%	87,545
Other Nonrecyclable Paper	0.9%	0.1%	26,558	Carpet/Upholstery	1.2%	0.4%	37,905
Paper Beverage Cartons/Aseptic Boxes	0.4%	0.0%	12,861	Disposable Diapers/Sanitary Products	3.8%	0.3%	117,859
				Animal By-Products	1.8%	0.3%	54,092
<b>Plastic</b>	<b>14.0%</b>	<b>0.4%</b>	<b>431,580</b>	Shoes/Rubber/Leather	1.1%	0.1%	32,841
#1 PET Bottles	1.4%	0.1%	44,274	Fines	2.8%	0.1%	87,618
#2 HDPE Natural Bottles	0.5%	0.2%	15,749	Miscellaneous Organics	0.6%	0.1%	19,150
#2 HDPE Pigmented Bottles	0.4%	0.1%	13,355				
Other Plastic Bottles	0.1%	0.0%	3,960	<b>E-Waste</b>	<b>0.9%</b>	<b>0.3%</b>	<b>27,413</b>
Rigid Plastic Containers/Packaging	1.6%	0.1%	48,240	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.0%	3,668
#6 EPS Containers/Packaging (including Single Use)	0.8%	0.1%	24,513	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	6,545
Film Plastic: Retail Bags/Sleeves	2.3%	0.1%	71,923	Computer Monitors	0.0%	0.0%	78
Film Plastic: Garbage Bags	2.5%	0.1%	77,341	Televisions	0.3%	0.3%	7,925
Film Plastic: Food/Drink Pouches	0.0%	0.0%	1,045	Other Computer Equipment	0.3%	0.1%	9,197
Film Plastic: All Other Film	1.9%	0.1%	58,096				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.5%	0.1%	14,599	<b>Construction &amp; Demolition</b>	<b>5.1%</b>	<b>0.8%</b>	<b>156,876</b>
Appliances: Plastic	0.2%	0.1%	7,336	Untreated Dimensional Lumber/Pallets/Crates	0.8%	0.2%	23,487
Bulk/Rigid Plastic	0.9%	0.1%	26,991	Treated/Contaminated Wood	1.3%	0.5%	39,997
Other Plastics	0.8%	0.1%	24,159	Other C&D Debris Not Elsewhere Classified	3.0%	0.6%	93,391
<b>Glass</b>	<b>4.4%</b>	<b>0.2%</b>	<b>134,498</b>	<b>Special Waste</b>	<b>0.4%</b>	<b>0.1%</b>	<b>12,054</b>
Clear Container Glass	1.8%	0.1%	55,798	Oil Filters	0.0%	0.0%	3
Green Container Glass	0.7%	0.1%	20,443	Antifreeze	0.0%	0.0%	4
Brown Container Glass	0.4%	0.0%	11,370	Wet-Cell Batteries	0.0%	0.0%	20
Other Color Container Glass	0.0%	0.0%	968	Water-Based Adhesives/Glues	0.0%	0.0%	211
Mixed Cullet	1.1%	0.1%	35,095	Latex Paint	0.1%	0.1%	2,410
Other Glass	0.4%	0.0%	10,824	Oil-Based Paint/Solvent	0.0%	0.0%	271
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	283
<b>Metal</b>	<b>3.5%</b>	<b>0.3%</b>	<b>109,288</b>	Dry-Cell Batteries	0.1%	0.0%	2,643
Aluminum Cans	0.3%	0.0%	8,745	Fluorescent Tubes/CFLs	0.0%	0.0%	219
Aluminum Foil/Containers	0.5%	0.0%	14,717	Mercury-Laden Wastes	0.0%	0.0%	52
Other Aluminum	0.1%	0.0%	2,749	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	97
Other Non-Ferrous	0.1%	0.0%	3,528	Home Medical Products	0.1%	0.0%	4,418
Steel/Tin Food Cans	0.9%	0.1%	26,998	Other Potentially Harmful Wastes	0.0%	0.0%	1,423
Empty Aerosol Cans	0.1%	0.0%	4,351				
Other Ferrous	0.8%	0.2%	24,891	<b>Miscellaneous Inorganics</b>	<b>0.8%</b>	<b>0.1%</b>	<b>24,467</b>
Mixed Metals	0.4%	0.2%	13,622				
Appliances: Ferrous	0.3%	0.2%	8,584	<b>Totals</b>	<b>100%</b>		<b>3,085,849</b>
Appliances: Non-Ferrous	0.0%	0.0%	1,104	<b>Sample Count</b>	<b>569</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

A complete presentation of Waste composition is provided for each of the five boroughs in Appendix K. In general, the composition of Waste across boroughs was relatively consistent. However, Manhattan’s Waste composition differed meaningfully from the other four boroughs. This is shown in Figure 6-2, which shows that Manhattan Waste was found to contain significantly fewer Organics and significantly more Paper and Glass compared to the other boroughs.

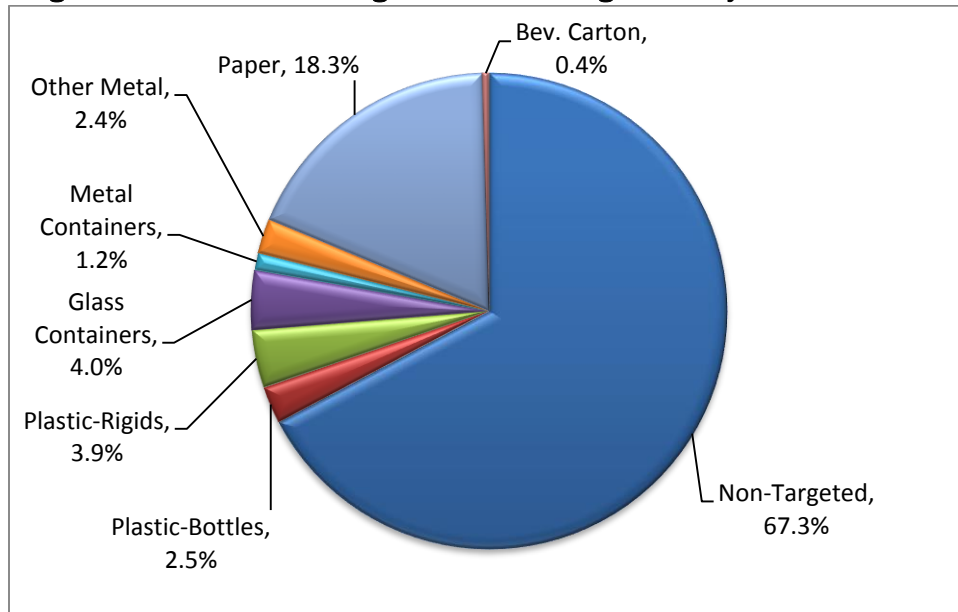
Figure 6-2 Comparison of Waste Composition by Borough



### 6.3 TARGETED RECYCLABLES

Just over 1.0 million tons of Recyclable Paper and MGP were collected curbside in the City. Figure 6-3 identifies the major material groups of recyclables collected. As shown, over 67 percent of all Waste discarded is not targeted in the City recycling program.<sup>1</sup> Over 18 percent of the Waste stream is recoverable Paper, and 14.4 percent consists of Metals, Glass, Plastic, and Beverage Cartons (MGP).

**Figure 6-3 Overview of Targeted vs. Non-Targeted Recyclables in Waste**



<sup>1</sup> As discussed in the Introduction, on April 29<sup>th</sup>, 2013, NYC announced an expansion of the recycling program to include all rigid plastics. Up until that point, NYC's program only targeted plastic bottles. For the purposes of this study, the rate of capture of targeted items in the recycling streams (as opposed to discarded with refuse) reflects recycling behavior prior to this expansion of the recycling program. All results in this section separately show Plastic Bottles and Other Rigid Plastics (stated as "Plastics – Rigid" in figures).

## 6 RESULTS: WASTES

Figure 6-4 illustrates the relative incidence of each targeted Paper and MGP material in the aggregate Waste stream. As shown, most individual materials comprise less than two percent of the overall Waste stream, although several Paper categories make up a larger fraction.

**Figure 6-4 Detail of Targeted Recyclables in Waste**

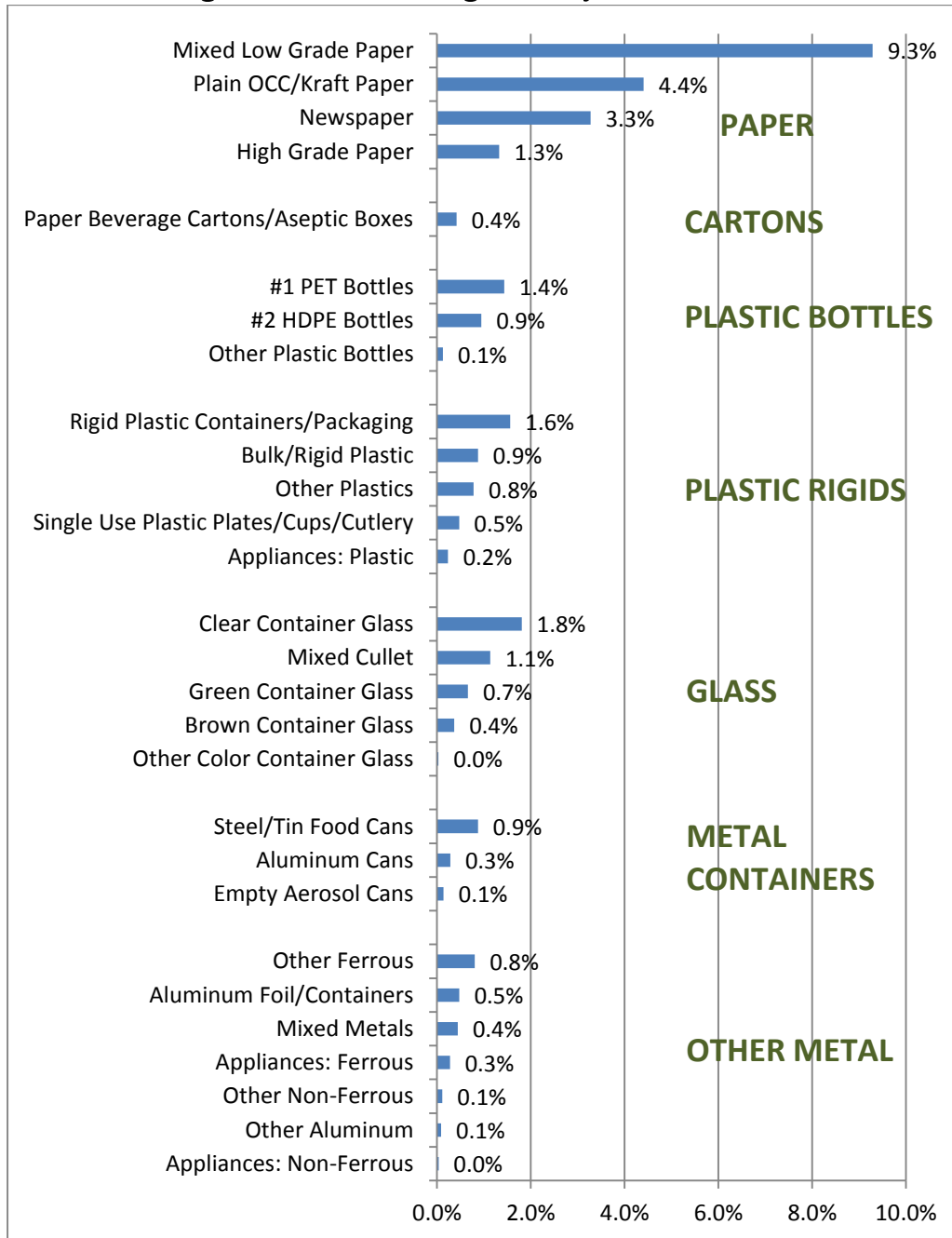
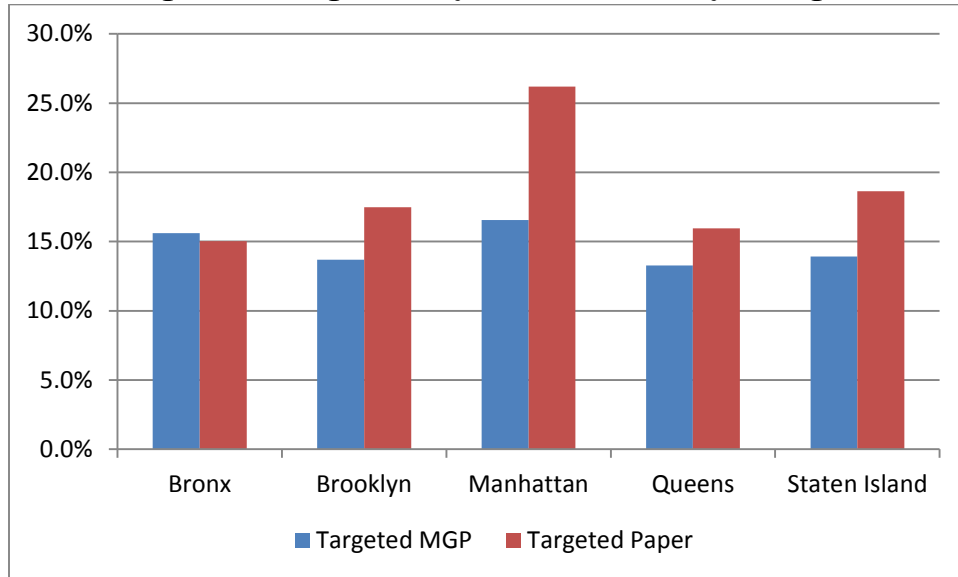


Figure 6-5 illustrates the percentage of targeted Paper and MGP in the aggregate Waste stream, by borough. The incidence of recyclables in the Waste stream varies somewhat significantly, with Manhattan generating the highest percentage of both Paper and MGP. Further, there was a greater percentage of Paper than MGP in all boroughs except for the Bronx, where Paper and MGP were found to be almost identical.

Figure 6-5 Targeted Recyclables in Waste, by Borough

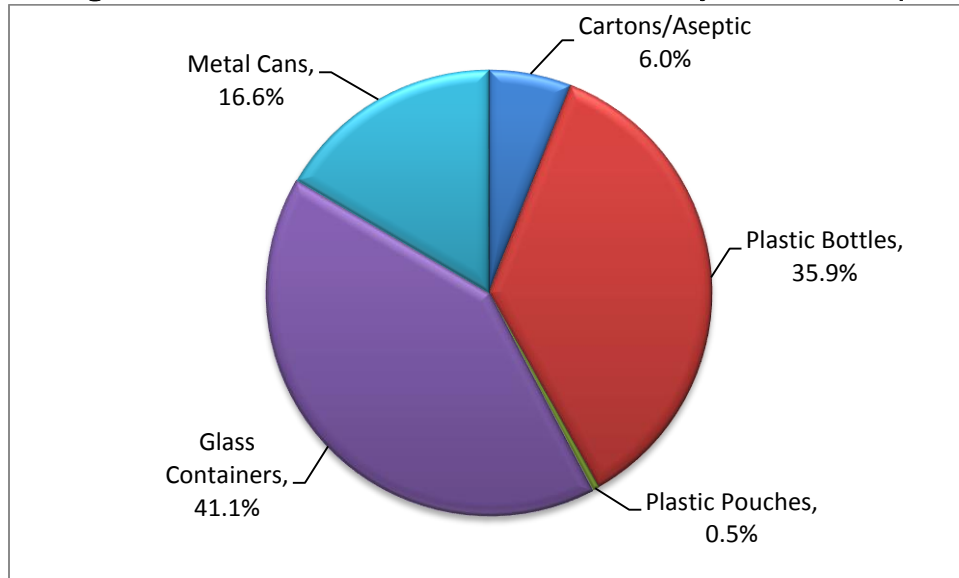


## 6 RESULTS: WASTES

### 6.4 FOCUS ON BOTTLES, CANS AND CARTONS<sup>2</sup>

Almost 250,000 tons of bottles, cans and cartons were found in the City's Waste stream. Figure 6-6 shows the relative weight contribution of each container by material type. Not surprisingly, Glass containers are the largest contributor based on the high weight per unit. Plastic bottles are a close second. Far greater detail about the incidence of various bottles, cans and cartons in the Waste stream can be found in Exhibit 9a-d in Appendix K.

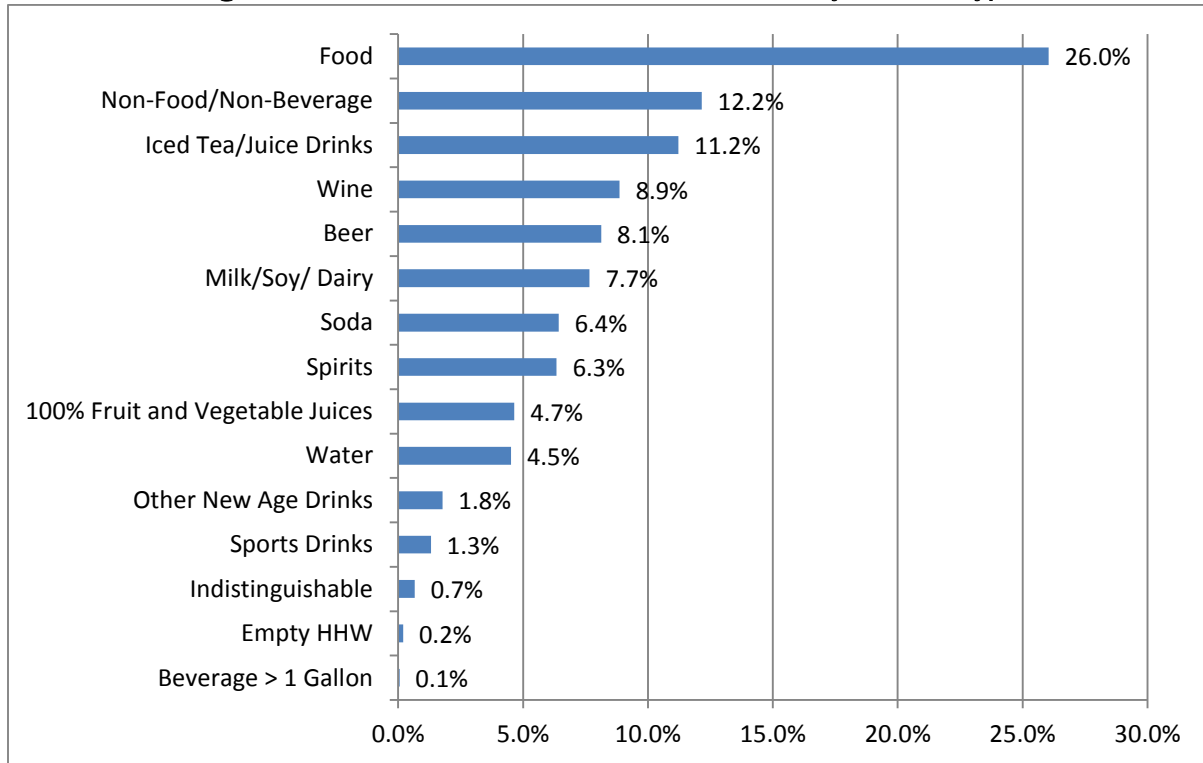
**Figure 6-6 Bottles, Cans and Cartons in Waste, by Material Group**



<sup>2</sup> The term "Bottles, Cans and Cartons" is used to denote all bottles, jars, cans, cartons, and drink pouches whether or not they contain beverage, food, or non-food materials.

Bottles, cans and cartons were further sorted into 14 product categories, plus one category for “indiscernible” product type. Figure 6-7 shows the incidence of each product type from largest to smallest. It is noteworthy that the most prevalent product types collected in the Waste stream are those not targeted in the New York State bottle bill. It was beyond the scope of this study to integrate the quantity of Beer, Soda, Wine and Water bottles that are generated in the City but captured through the returnable container program.

**Figure 6-7 Bottles, Cans and Cartons in Waste, by Product Type**



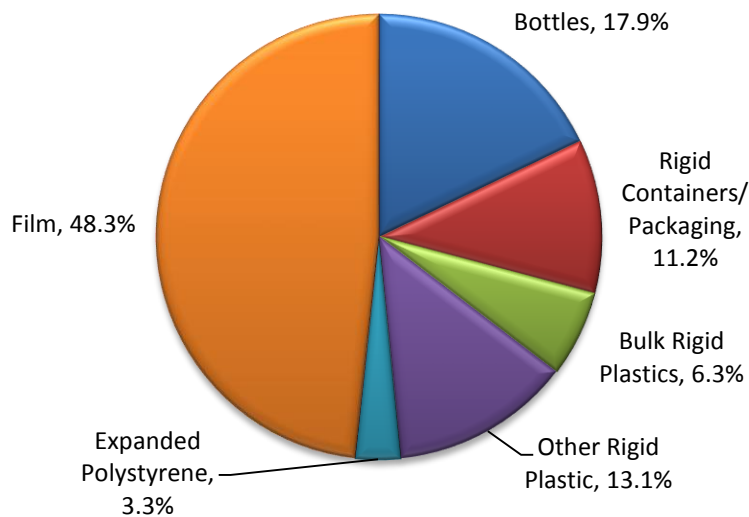
Far greater detail about the incidence of various containers in the Waste stream can be found in Exhibit 9a-d in Appendix K.

## 6 RESULTS: WASTES

### 6.5 FOCUS ON PLASTICS

Almost 432,000 tons of Plastic were found in City Waste in FY13. Figure 6-8 shows a breakdown of Plastics by several product types that are generally important to gauge recyclability. As shown, Film plastics were found to be the single largest class of plastics in the Waste stream. However, it should be noted that Film plastics, because of a high volume-to-weight ratio, also absorb moisture and adhere to particulate contaminants to a far greater degree than other Plastics. For this reason, the true incidence of Film is lower than shown in this figure, although it was beyond the scope of this study to estimate the impact of moisture and particulate contamination on Film (or any other material category).

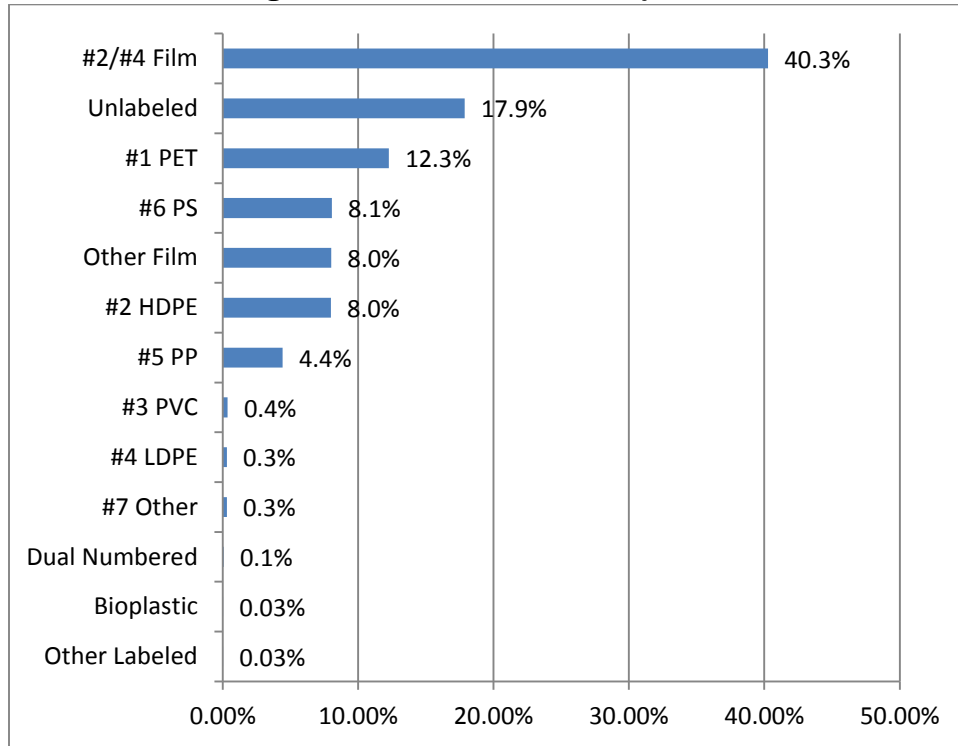
**Figure 6-8 Plastics in Waste, by Product Category**





Rigid and expanded plastics were sorted into multiple resin categories – primarily resins numbered one through seven, but also including unlabeled, dual labeled, bioplastic, and other labeled resins. Films were sorted into two resins: polyethylenes (#2 and #4 combined) and all other films. Figure 6-9 shows the incidence of each resin type in the Waste Stream. Excluding Films, Unlabeled<sup>3</sup> plastics were most common, followed by #1 PET, #6 PS, and #2 HDPE.

Figure 6-9 Plastics in Waste, by Resin



Far greater detail about the incidence of plastics in the Waste stream by resin and product type can be found in Exhibit 13a-d in Appendix K.

## 6.6 CONCLUSION

The data contained in this section are but a fraction of the comprehensive information that is presented in Appendix K. Each of the figures and tables in this section can be duplicated for individual boroughs. Further, many of the results that are shown in the aggregate here (for example, the breakdown of Plastic resins by resin type) can be calculated for individual plastic product categories. Interested readers are encouraged to review the tabular data in Appendix K for further insight into the Waste stream.

<sup>3</sup> The “Unlabeled” category also includes plastics that may have been labeled, but for which it was not possible to find and decipher the label during the sort.

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## 7 RESULTS: REFUSE

### 7.1 INTRODUCTION

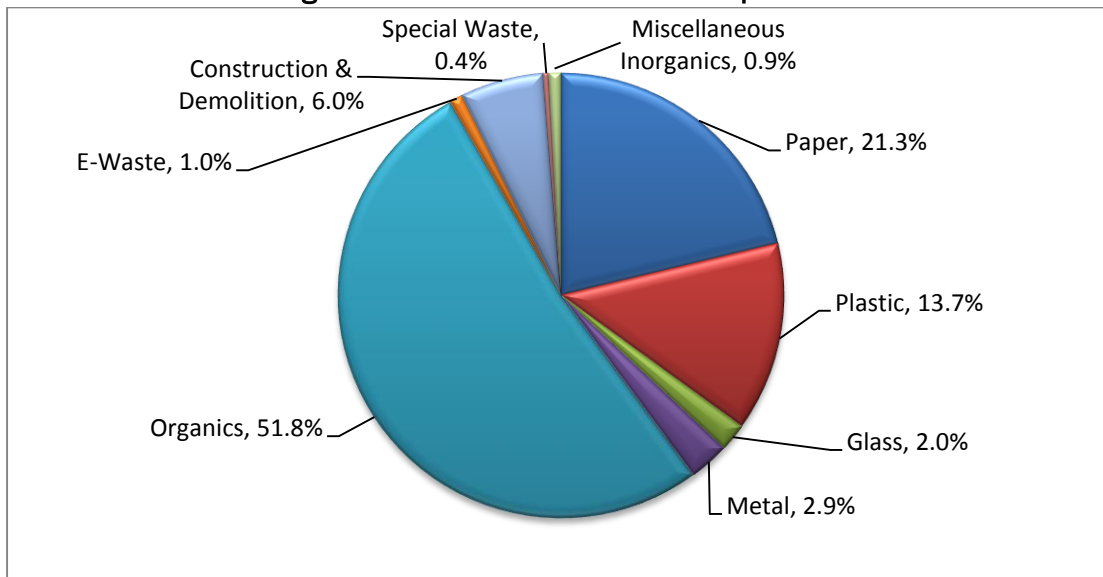
Complete and detailed numerical results are contained in Appendix K to this report, and electronic copies of these exhibits have been delivered to DSNY and SMRNY for their use. The purpose of this section is to highlight noteworthy findings via a combination of graphical and tabular summary data. Results in this section focus on the almost 2.6 million tons of Refuse collected by DSNY.

Throughout this section, for the sake of simplicity, results are presented in terms of percent composition by weight. An alternative means of presentation would be to provide results in terms of annual tons. Both percentage and tonnage data are included in Appendix K.

### 7.2 COMPOSITION

Figure 7-1 shows the breakdown of Refuse by the major material groups included in the study. As shown, almost 52 percent of Refuse is made up of Organic materials, with Paper and Plastic contributing meaningful fractions.

Figure 7-1 Overview of Refuse Composition



## 7 RESULTS: REFUSE

Table 7-1 highlights the ten most prevalent individual material categories found in Refuse. Food Waste is by far the most prevalent material at just over 21 percent; other Organics on this list include Compostable Paper, Yard Wastes, and potentially some Wood. As a group, these 10 materials comprise over 66 percent of the Refuse stream.

**Table 7-1 Top 10 Most Prevalent Materials in Refuse**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	21.1%	21.1%	547,316
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.8%	29.9%	227,541
Mixed Low Grade Paper	7.4%	37.3%	190,549
Yard Waste	7.2%	44.5%	186,418
Disposable Diapers/Sanitary Products	4.5%	49.0%	117,483
Non-C&D Wood	4.1%	53.2%	106,650
Other C&D Debris Not Elsewhere Classified	3.6%	56.7%	92,226
Textiles: Clothing	3.4%	60.1%	87,021
Fines	3.3%	63.4%	85,730
Film Plastic: Retail Bags/Sleeves	2.7%	66.1%	69,470
<b>Subtotal</b>	<b>66.1%</b>		<b>1,710,403</b>
All other materials	33.9%		877,798
<b>Total</b>	<b>100.0%</b>		<b>2,588,201</b>

Table 7-2 provides a detailed summary of Refuse composition. This table also shows the confidence interval associated with the mean composition, to a 90 percent level of confidence. Finally, this table distributes the 2.58 million tons of Refuse collected in FY13 based on results of the study for the purpose of projecting the likely absolute quantity of each material contained in the New York City Refuse stream. Table 7-2 – as well as the underlying data for Figure 7-1 and Table 7-1 – can also be found as Exhibit 4c in Appendix K.

## 7 RESULTS: REFUSE

Table 7-2 Detailed Refuse Composition

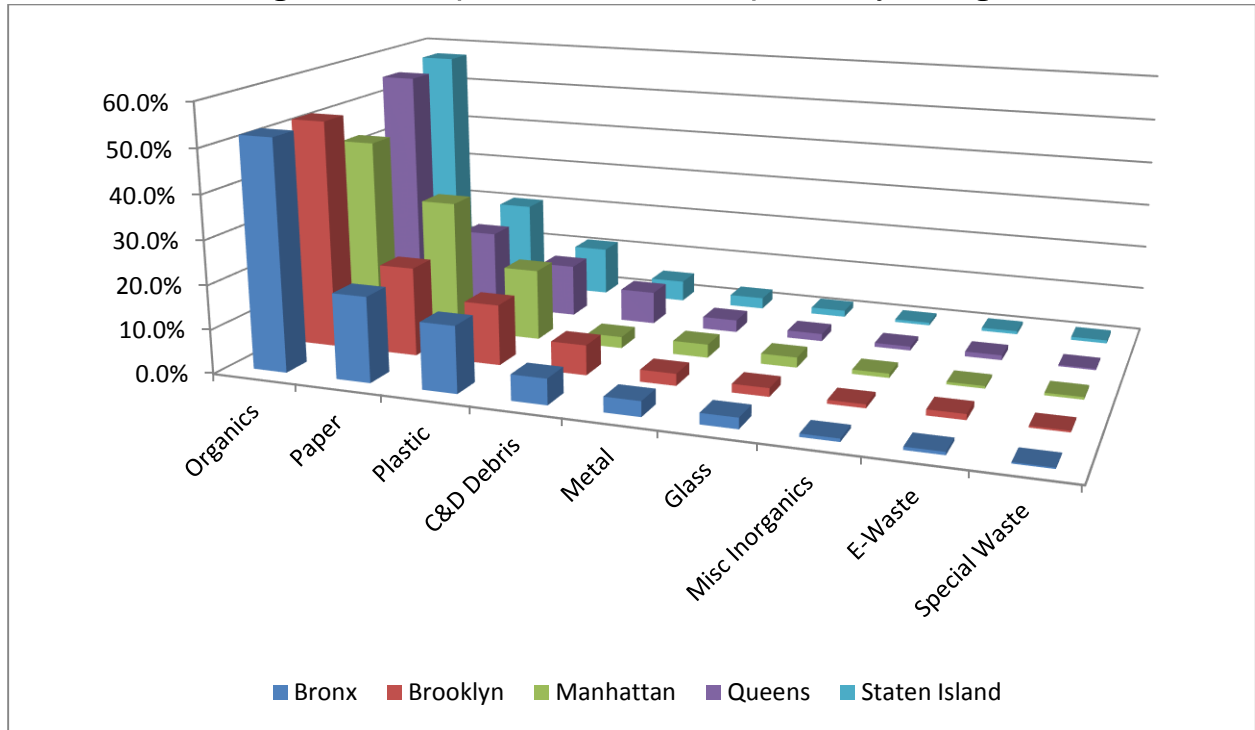
Material	Estimated		Estimated Tons	Material	Estimated		Estimated Tons
	Percent	+ / -			Percent	+ / -	
<b>Paper</b>	<b>21.3%</b>	<b>0.7%</b>	<b>550,172</b>	<b>Organics</b>	<b>51.8%</b>	<b>1.2%</b>	<b>1,341,743</b>
Newspaper	1.5%	0.1%	39,508	Yard Waste	7.2%	0.9%	186,418
Plain OCC/Kraft Paper	1.5%	0.2%	38,623	Food	21.1%	0.8%	547,316
High Grade Paper	0.9%	0.2%	23,792	Non-C&D Wood	4.1%	1.1%	106,650
Mixed Low Grade Paper	7.4%	0.4%	190,549	Textiles: Non-Clothing	2.7%	0.4%	68,906
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.8%	0.4%	227,541	Textiles: Clothing	3.4%	0.4%	87,021
Other Nonrecyclable Paper	0.9%	0.1%	23,124	Carpet/Upholstery	1.5%	0.4%	37,905
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.0%	7,037	Disposable Diapers/Sanitary Products	4.5%	0.3%	117,483
				Animal By-Products	2.1%	0.3%	53,876
<b>Plastic</b>	<b>13.7%</b>	<b>0.4%</b>	<b>355,033</b>	Shoes/Rubber/Leather	1.2%	0.2%	31,695
#1 PET Bottles	0.9%	0.1%	23,643	Fines	3.3%	0.2%	85,730
#2 HDPE Natural Bottles	0.2%	0.0%	6,085	Miscellaneous Organics	0.7%	0.1%	18,743
#2 HDPE Pigmented Bottles	0.2%	0.0%	5,523				
Other Plastic Bottles	0.1%	0.0%	2,170	<b>E-Waste</b>	<b>1.0%</b>	<b>0.3%</b>	<b>25,673</b>
Rigid Plastic Containers/Packaging	1.5%	0.1%	39,232	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.1%	3,253
#6 EPS Containers/Packaging (including Single Use)	0.9%	0.1%	23,783	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	5,977
Film Plastic: Retail Bags/Sleeves	2.7%	0.1%	69,470	Computer Monitors	0.0%	0.0%	66
Film Plastic: Garbage Bags	2.6%	0.1%	67,522	Televisions	0.3%	0.3%	7,925
Film Plastic: Food/Drink Pouches	0.0%	0.0%	1,016	Other Computer Equipment	0.3%	0.1%	8,451
Film Plastic: All Other Film	2.2%	0.1%	55,891				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.5%	0.1%	13,754	<b>Construction &amp; Demolition</b>	<b>6.0%</b>	<b>0.9%</b>	<b>155,502</b>
Appliances: Plastic	0.3%	0.1%	6,510	Untreated Dimensional Lumber/Pallets/Crates	0.9%	0.3%	23,439
Bulk/Rigid Plastic	0.8%	0.1%	20,009	Treated/Contaminated Wood	1.5%	0.6%	39,837
Other Plastics	0.8%	0.1%	20,425	Other C&D Debris Not Elsewhere Classified	3.6%	0.7%	92,226
<b>Glass</b>	<b>2.0%</b>	<b>0.2%</b>	<b>51,831</b>	<b>Special Waste</b>	<b>0.4%</b>	<b>0.1%</b>	<b>10,536</b>
Clear Container Glass	0.9%	0.1%	23,845	Oil Filters	0.0%	0.0%	3
Green Container Glass	0.2%	0.0%	5,103	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.2%	0.0%	4,943	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	327	Water-Based Adhesives/Glues	0.0%	0.0%	61
Mixed Cullet	0.4%	0.1%	9,721	Latex Paint	0.1%	0.1%	1,777
Other Glass	0.3%	0.0%	7,892	Oil-Based Paint/Solvent	0.0%	0.0%	43
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	269
<b>Metal</b>	<b>2.9%</b>	<b>0.4%</b>	<b>75,515</b>	Dry-Cell Batteries	0.1%	0.0%	2,524
Aluminum Cans	0.2%	0.0%	6,116	Fluorescent Tubes/CFLs	0.0%	0.0%	189
Aluminum Foil/Containers	0.5%	0.0%	12,850	Mercury-Laden Wastes	0.0%	0.0%	52
Other Aluminum	0.1%	0.0%	2,146	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	97
Other Non-Ferrous	0.1%	0.1%	2,554	Home Medical Products	0.2%	0.0%	4,194
Steel/Tin Food Cans	0.5%	0.1%	13,596	Other Potentially Harmful Wastes	0.1%	0.0%	1,328
Empty Aerosol Cans	0.1%	0.0%	2,614				
Other Ferrous	0.7%	0.2%	18,386	<b>Miscellaneous Inorganics</b>	<b>0.9%</b>	<b>0.2%</b>	<b>22,197</b>
Mixed Metals	0.5%	0.2%	11,728				
Appliances: Ferrous	0.2%	0.2%	5,162	<b>Totals</b>	<b>100%</b>		<b>2,588,201</b>
Appliances: Non-Ferrous	0.0%	0.0%	362	<b>Sample Count</b>	<b>256</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

## 7 RESULTS: REFUSE

A complete presentation of Refuse composition is provided for each of the five boroughs in Appendix K. In general, the composition of Refuse across boroughs was relatively consistent. However, Manhattan's Refuse composition differed meaningfully from the other four boroughs. This is shown in Figure 7-2, which shows that Manhattan's Refuse contained significantly fewer Organics and Construction & Demolition Debris, and significantly more Paper, compared to the other boroughs.

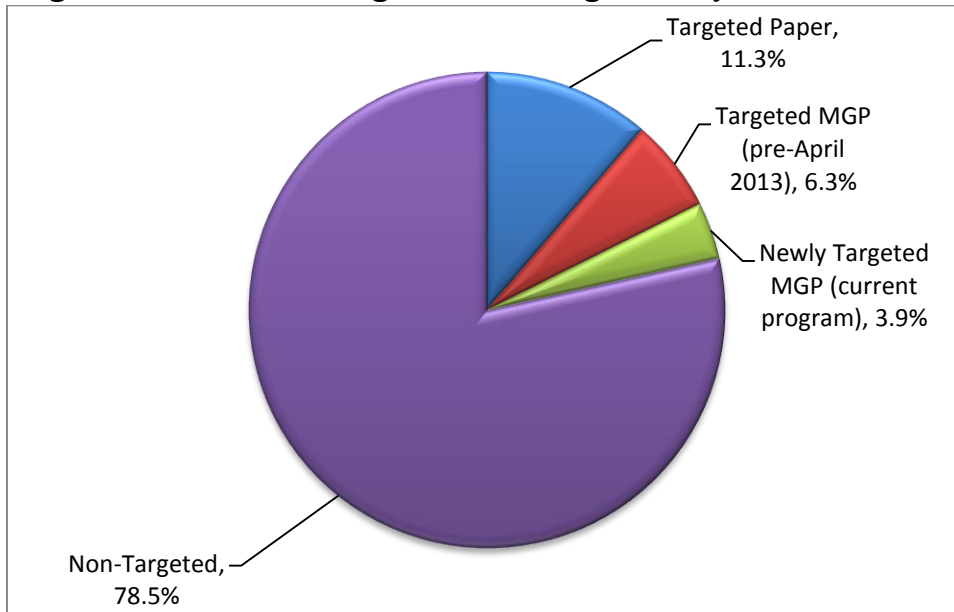
Figure 7-2 Comparison of Refuse Composition by Borough



7.3 TARGETED RECYCLABLES

Over 550,000 tons of recyclable materials were found to still be contained in the Refuse stream. These are materials that could be diverted to the City’s recycling program based on current program definitions.<sup>1</sup> Figure 7-3 shows the incidence of Targeted Paper and MGP that was found to still be contained in the Refuse stream. While the incidence of Recyclable materials is significant, it is noteworthy that only 21.5 percent of Refuse stands to be diverted from Refuse under “perfect” recycling participation and 100 percent capture of recyclable materials.

Figure 7-3 Overview of Targeted v. Non-Targeted Recyclables in Refuse



<sup>1</sup> As discussed in the Introduction, on April 29<sup>th</sup>, 2013, NYC announced an expansion of the recycling program to include all rigid plastics. Up until that point, NYC’s program only targeted plastic bottles. For the purposes of this study, the rate of capture of targeted items in the recycling streams (as opposed to discarded with refuse) reflects recycling behavior prior to this expansion of the recycling program. All results in this section separately show Plastic Bottles and Other Rigid Plastics (stated as “Plastics – Rigid” in figures).

## 7 RESULTS: REFUSE

Figure 7-4 illustrates the relative incidence of each targeted recyclable Paper and MGP material in the Refuse stream. As shown, most Targeted Recyclables make up less than 1.0 percent of the Refuse stream, although Rigid Plastic Containers and several paper grades are more prevalent. Mixed Low Grade Papers are by far the most commonly occurring Targeted Recyclable remaining in the Refuse stream.

**Figure 7-4 Detail of Targeted Recyclables in Refuse**

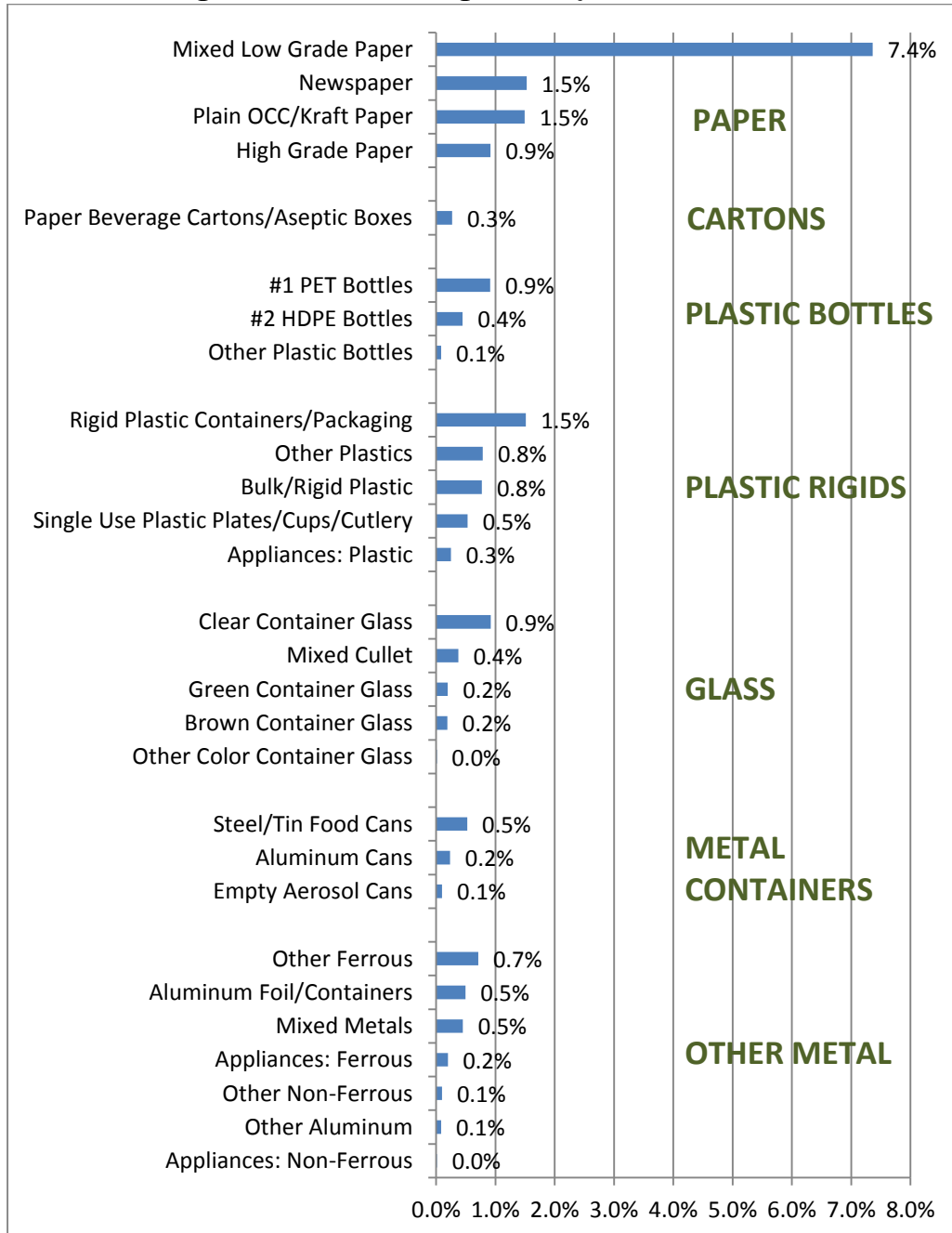
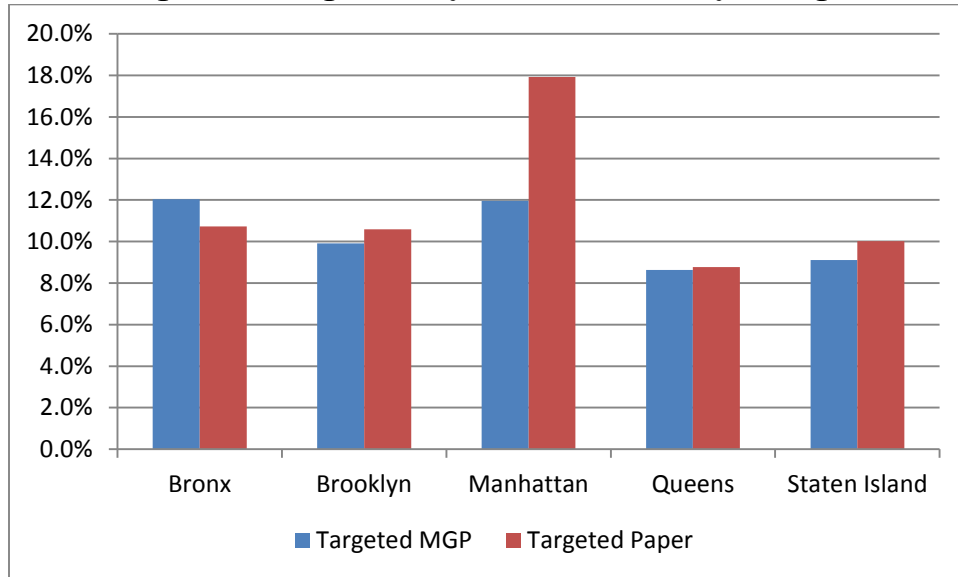




Figure 7-5 illustrates the percentage of Targeted Paper and MGP in the Refuse stream, by borough. Overall, there are some fluctuations by borough, although performance is relatively comparable. Manhattan stands out as having the highest percentage of Targeted Recyclables remaining in the Refuse stream out of all boroughs. Paper and MGP are roughly equal across four of the five boroughs, with Manhattan showing substantially more Paper than the rest.

Figure 7-5 Targeted Recyclables in Refuse, by Borough

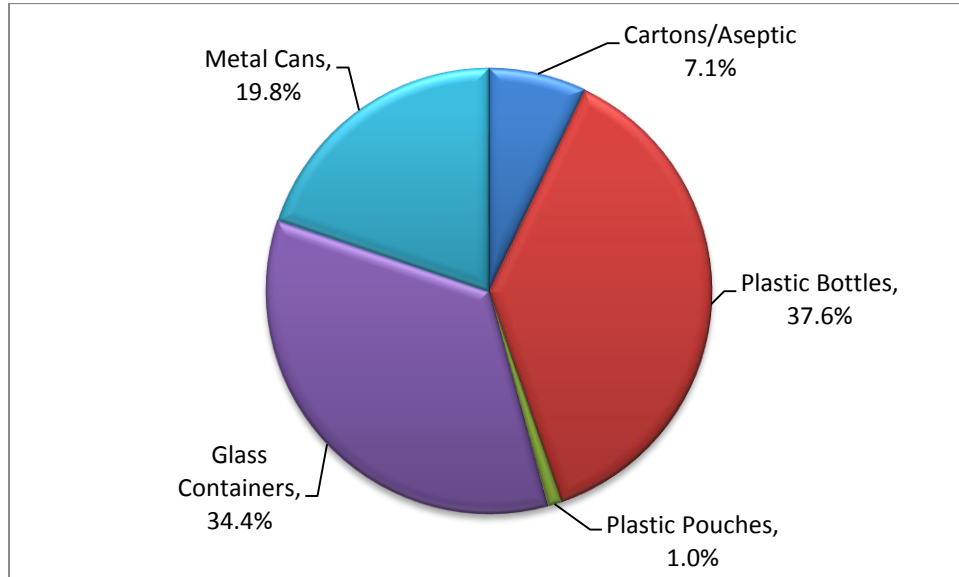


## 7 RESULTS: REFUSE

### 7.4 FOCUS ON BOTTLES, CANS AND CARTONS<sup>2</sup>

Just over 108,000 tons of bottles, cans and cartons were found to exist in the Refuse Stream. Figure 7-5 shows the relative contribution of each container material type. Despite their far lower unit weight, Plastic Bottles are more prevalent than Glass bottles and jars. Far greater detail about the incidence of various bottles, cans and cartons in the Refuse stream can be found in Exhibit 8a-d in Appendix K.

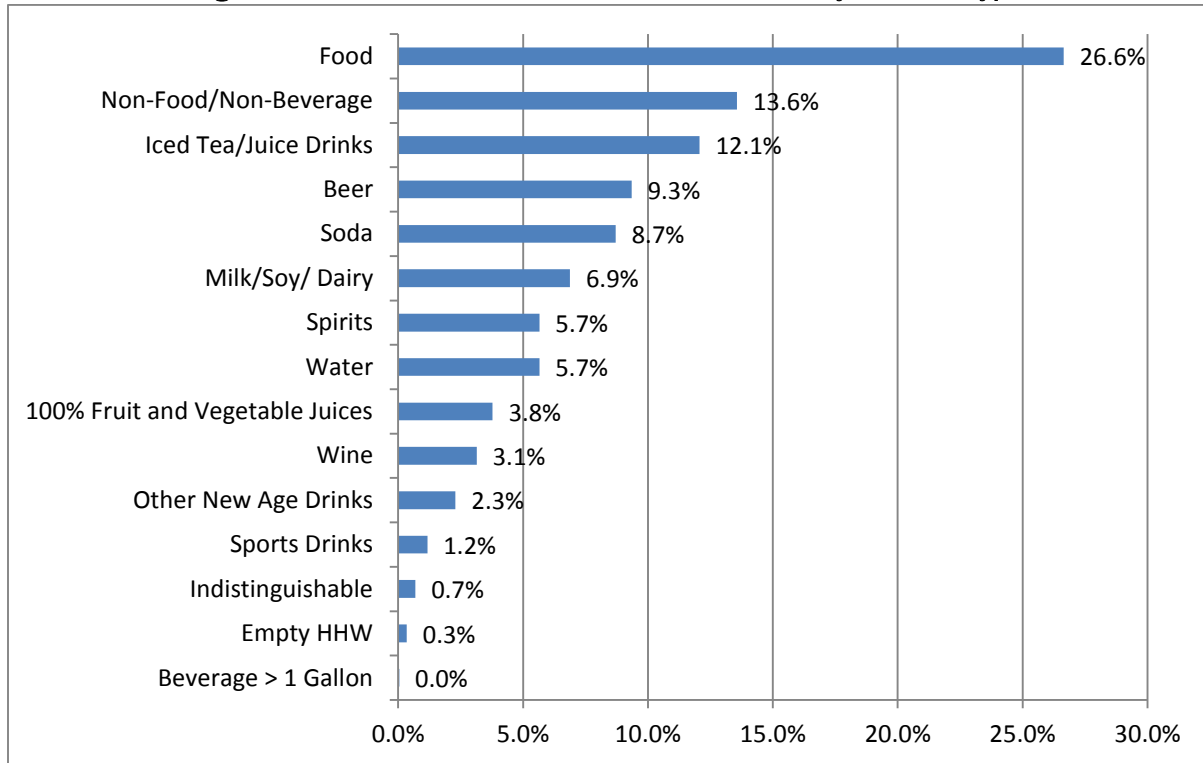
**Figure 7-6 Bottles, Cans and Cartons in Refuse, by Material Group**



<sup>2</sup> The term “Bottles, Cans and Cartons” is used to denote all bottles, jars, cans, cartons, and drink pouches whether they contain beverage, food, or non-food materials.

Bottles, cans and cartons were further sorted into 14 product categories, plus one category for “indiscernible” product type. Figure 7-7 shows the incidence of each product type from largest to smallest. It is noteworthy that the most prevalent product types in the Refuse stream are those not targeted in the New York State bottle bill. It was beyond the scope of this study to integrate the quantity of Beer, Soda, Wine and Water bottles that are generated in the City but captured through the returnable container program.

**Figure 7-7 Bottles, Cans and Cartons in Refuse, by Product Type**



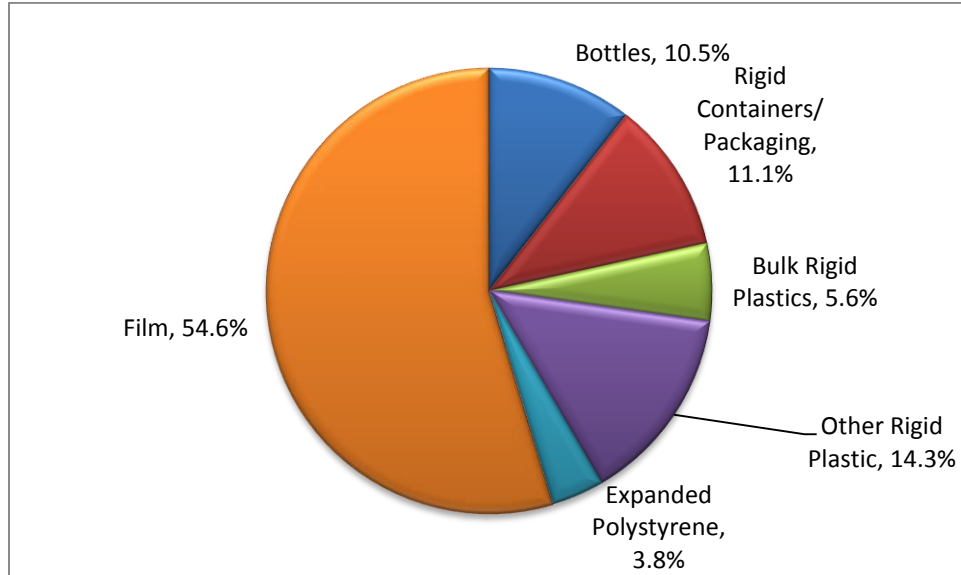
Far greater detail about the incidence of various containers in the Refuse stream can be found in Exhibit 8a-d in Appendix K.

## 7 RESULTS: REFUSE

### 7.5 FOCUS ON PLASTICS

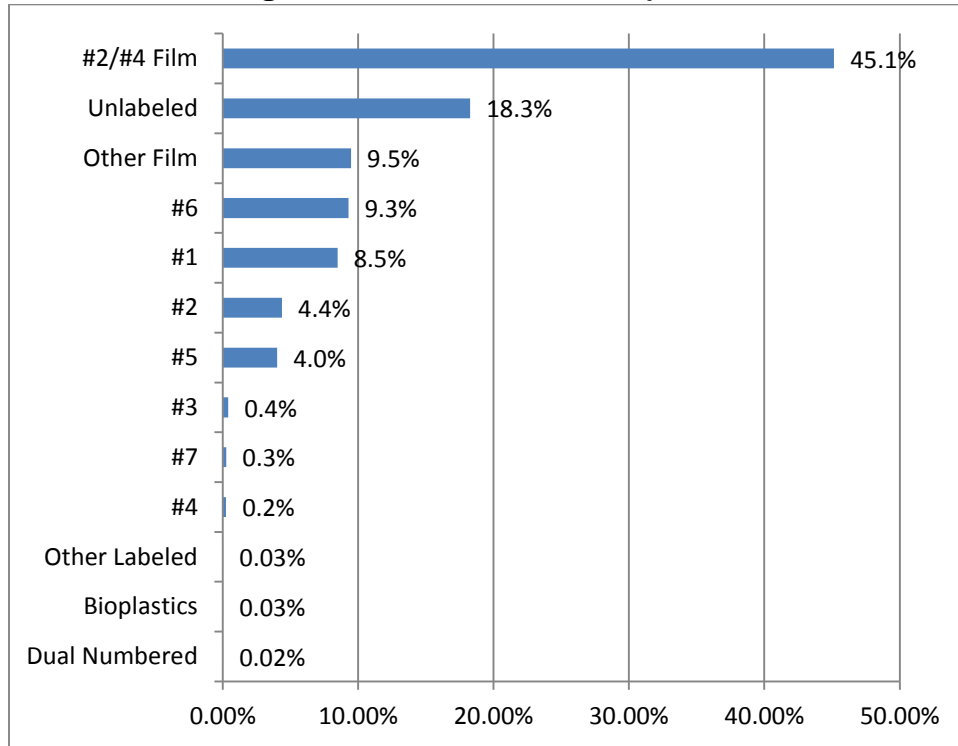
Over 355,000 tons of Plastic were found in the Refuse stream. Figure 7-8 shows a breakdown of Plastics by several product types that are generally important to gauge recyclability. As shown, Film plastics were found to be the single largest class of plastics in the Waste stream. However, it should be noted that Film plastics, because of a high volume-to-weight ratio, also absorb moisture and adhere to particulate contaminants to a far greater degree than other Plastics. For this reason, the incidence of Film is lower than shown in this figure, although it was beyond the scope of this study to estimate the impact of moisture and particulate contamination on Film (or any other material category).

**Figure 7-8 Plastics in Refuse, by Product Category**



Rigid and expanded plastics were sorted into multiple resin categories – primarily resins numbered one through seven, but also including unlabeled and other resins. Films were sorted into two resins: polyethylenes (#2 and #4 combined) and all other films. Figure 7-9 shows the incidence of each resin type in the Refuse stream. Excluding Films, Unlabeled<sup>3</sup> plastics were most common, followed by #6 PS, #1 PET and #2 HDPE.

Figure 7-9 Plastics in Refuse, by Resin



Far greater detail about the incidence of plastics in the Refuse stream by resin and product type can be found in Exhibit 12a-d in Appendix K.

## 7.6 CONCLUSION

The data contained in this section are but a fraction of the comprehensive information that is presented in Appendix K. Each of the figures and tables in this section can be duplicated for individual boroughs. Further, many of the results that are shown in the aggregate here (for example, the breakdown of Plastic by resin type) can be calculated for individual plastic product categories. Interested readers are encouraged to review the tabular data in Appendix K for further insight into the Refuse stream.

<sup>3</sup> The “Unlabeled” category also includes plastics that may have been labeled, but for which it was not possible to find and decipher the label during the sort.

## 7 RESULTS: REFUSE

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## 8 RESULTS: MGP

### 8.1 INTRODUCTION

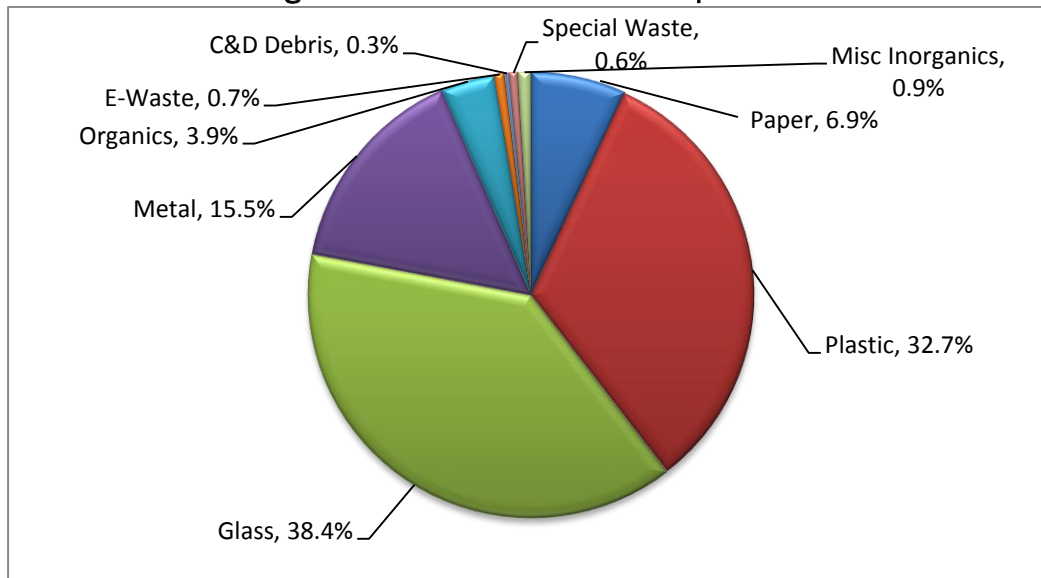
Complete and detailed numerical results are contained in Appendix K to this report, and electronic copies of these exhibits have been delivered to DSNY and SMRNY for their use. The purpose of this section is to highlight noteworthy findings via a combination of graphical and tabular summary data. Results in this section focus on the over 212,000 tons of MGP collected by DSNY in FY13.

Throughout this section, for the sake of simplicity, results are presented in terms of percent composition by weight. An alternative means of presentation would be to provide results in terms of annual tons. Both percentage and tonnage data are included in Appendix K.

### 8.2 COMPOSITION

Figure 8-1 shows the breakdown of MGP by the major material groups included in the study. As shown, over 86 percent of MGP is in fact Metal, Glass, Plastic or Cartons (although not all of that is Targeted recyclables), with roughly comparable fractions of Glass and Plastic as the two most prevalent material groups.

Figure 8-1 Overview of MGP Composition



## 8 RESULTS: MGP

Table 8-1 highlights the ten most prevalent individual material categories found in MGP. Nine of the ten most prevalent categories are Targeted Recyclables, with only Film Garbage Bags cracking the top 10 list as a Non-targeted material. As a group, these 10 materials comprise over 71 percent of the MGP stream.

**Table 8-1 Top 10 Most Prevalent Materials in MGP**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Clear Container Glass	14.9%	14.9%	31,549
Mixed Cullet	11.9%	26.7%	25,187
#1 PET Bottles	9.5%	36.2%	20,170
#2 HDPE Bottles	8.1%	44.4%	17,255
Green Container Glass	7.2%	51.6%	15,262
Steel/Tin Food Cans	6.2%	57.7%	13,141
Rigid Plastic Containers/Packaging	4.0%	61.7%	8,427
Film Plastic: Garbage Bags	3.2%	64.9%	6,804
Bulk/Rigid Plastic	3.2%	68.1%	6,742
Brown Container Glass	3.0%	71.1%	6,329
<b>Subtotal</b>	<b>71.1%</b>		<b>150,866</b>
All other materials	28.9%		61,391
<b>Total</b>	<b>100.0%</b>		<b>212,257</b>

Table 8-2 provides a detailed summary of MGP composition. This table also shows the confidence interval associated with the mean composition, to a 90 percent level of confidence. Finally, this table distributes the 212,000 tons of MGP collected in FY13 based on results of the study for the purpose of projecting the likely absolute quantity of each material contained in the New York City MGP stream. Table 8-2 – as well as the underlying data for Figure 8-1 and Table 8-1 – can also be found as Exhibit 4a in Appendix K.



## 8 RESULTS: MGP

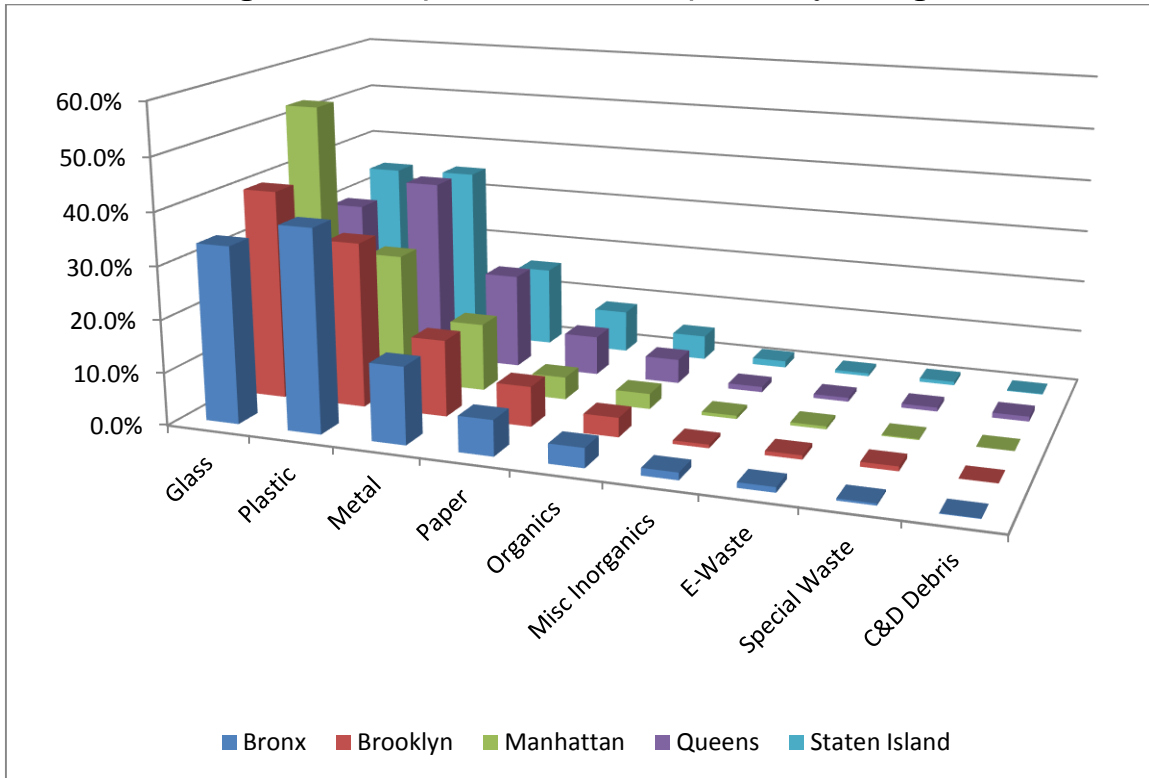
Table 8-2 Detailed MGP Composition

Material	Estimated		Estimated		Material	Estimated		Estimated
	Percent	+ / -	Tons	Tons		Percent	+ / -	
<b>Paper</b>	<b>6.9%</b>	<b>0.5%</b>	<b>14,617</b>		<b>Organics</b>	<b>3.9%</b>	<b>0.4%</b>	<b>8,360</b>
Newspaper	0.7%	0.2%	1,421		Yard Waste	0.1%	0.1%	164
Plain OCC/Kraft Paper	0.5%	0.2%	1,109		Food	2.6%	0.3%	5,438
High Grade Paper	0.1%	0.1%	219		Non-C&D Wood	0.1%	0.1%	294
Mixed Low Grade Paper	2.4%	0.3%	5,068		Textiles: Non-Clothing	0.1%	0.0%	142
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.5%	0.1%	987		Textiles: Clothing	0.1%	0.0%	214
Other Nonrecyclable Paper	0.5%	0.0%	962		Carpet/Upholstery	0.0%	0.0%	1
Paper Beverage Cartons/Aseptic Boxes	2.3%	0.2%	4,852		Disposable Diapers/Sanitary Products	0.1%	0.0%	200
					Animal By-Products	0.0%	0.0%	85
<b>Plastic</b>	<b>32.7%</b>	<b>0.9%</b>	<b>69,323</b>		Shoes/Rubber/Leather	0.2%	0.0%	321
#1 PET Bottles	9.5%	0.4%	20,170		Fines	0.6%	0.2%	1,310
#2 HDPE Natural Bottles	4.5%	0.4%	9,515		Miscellaneous Organics	0.1%	0.0%	191
#2 HDPE Pigmented Bottles	3.6%	0.3%	7,739					
Other Plastic Bottles	0.8%	0.1%	1,745		<b>E-Waste</b>	<b>0.7%</b>	<b>0.2%</b>	<b>1,577</b>
Rigid Plastic Containers/Packaging	4.0%	0.2%	8,427		Audio/Visual Equipment-TV Peripherals (Covered)	0.2%	0.2%	402
#6 EPS Containers/Packaging (including Single Use)	0.1%	0.0%	283		Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	439
Film Plastic: Retail Bags/Sleeves	0.9%	0.1%	1,862		Computer Monitors	0.0%	0.0%	12
Film Plastic: Garbage Bags	3.2%	0.2%	6,804		Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	25		Other Computer Equipment	0.3%	0.2%	724
Film Plastic: All Other Film	0.6%	0.1%	1,280					
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.3%	0.0%	730		<b>Construction &amp; Demolition</b>	<b>0.3%</b>	<b>0.4%</b>	<b>674</b>
Appliances: Plastic	0.4%	0.1%	773		Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	32
Bulk/Rigid Plastic	3.2%	0.6%	6,742		Treated/Contaminated Wood	0.0%	0.0%	14
Other Plastics	1.5%	0.2%	3,227		Other C&D Debris Not Elsewhere Classified	0.3%	0.4%	628
<b>Glass</b>	<b>38.4%</b>	<b>1.4%</b>	<b>81,533</b>		<b>Special Waste</b>	<b>0.6%</b>	<b>0.2%</b>	<b>1,326</b>
Clear Container Glass	14.9%	0.8%	31,549		Oil Filters	0.0%	0.0%	0
Green Container Glass	7.2%	0.6%	15,262		Antifreeze	0.0%	0.0%	0
Brown Container Glass	3.0%	0.4%	6,329		Wet-Cell Batteries	0.0%	0.0%	14
Other Color Container Glass	0.3%	0.1%	641		Water-Based Adhesives/Glues	0.1%	0.0%	123
Mixed Cullet	11.9%	1.3%	25,187		Latex Paint	0.3%	0.2%	633
Other Glass	1.2%	0.2%	2,564		Oil-Based Paint/Solvent	0.1%	0.1%	227
					Pesticides/Herbicides/Rodenticides	0.0%	0.0%	14
<b>Metal</b>	<b>15.5%</b>	<b>1.1%</b>	<b>32,885</b>		Dry-Cell Batteries	0.0%	0.0%	75
Aluminum Cans	1.2%	0.1%	2,491		Fluorescent Tubes/CFLs	0.0%	0.0%	30
Aluminum Foil/Containers	0.8%	0.1%	1,793		Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.3%	0.3%	593		Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.4%	0.2%	931		Home Medical Products	0.1%	0.0%	126
Steel/Tin Food Cans	6.2%	0.4%	13,141		Other Potentially Harmful Wastes	0.0%	0.0%	85
Empty Aerosol Cans	0.8%	0.1%	1,694					
Other Ferrous	3.0%	0.6%	6,319		<b>Miscellaneous Inorganics</b>	<b>0.9%</b>	<b>0.2%</b>	<b>1,962</b>
Mixed Metals	0.9%	0.4%	1,824					
Appliances: Ferrous	1.6%	0.8%	3,395		<b>Totals</b>	<b>100%</b>		<b>212,257</b>
Appliances: Non-Ferrous	0.3%	0.2%	704		<b>Sample Count</b>	<b>183</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

A complete presentation of MGP composition is provided for each of the five boroughs in Appendix K. Significant variation in MGP composition was observed across boroughs. Glass was the most prevalent material in the MGP stream in Manhattan and Brooklyn, while Plastic lead the other boroughs. The MGP stream in Manhattan in particular contained significantly more Glass, and significantly less Plastic, than all other boroughs.

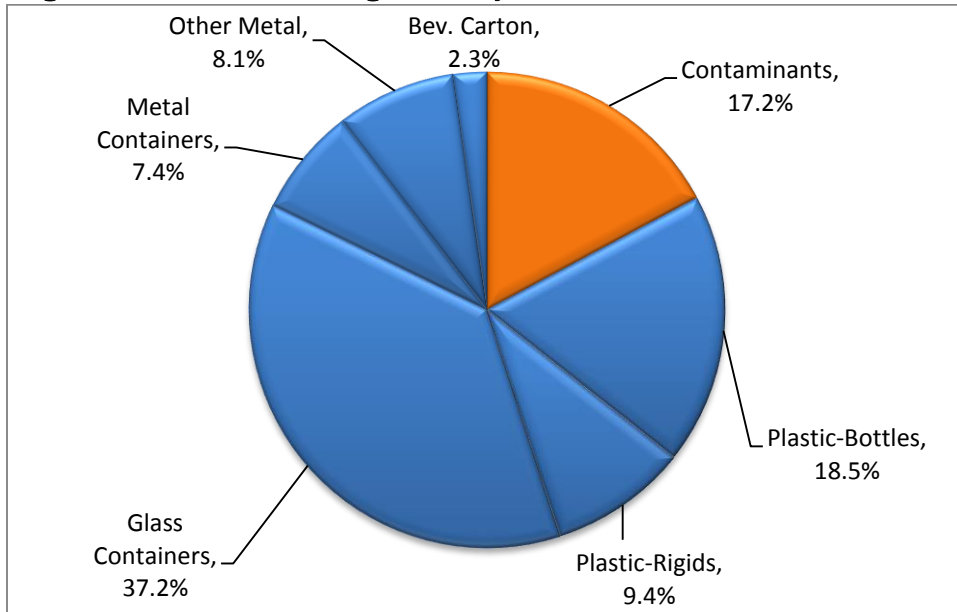
Figure 8-2 Comparison of MGP Composition by Borough



**8.3 TARGETED RECYCLABLES VS. CONTAMINATION**

Of the roughly 212,000 tons collected as MGP, almost 156,000 tons or 82.8 percent, were correctly placed in the MGP stream and therefore available for recovery. By weight, Glass was the most prevalent MGP material, followed by Plastic Bottles. Conversely, over 17 percent of MGP was found to be contaminants (including Targeted Paper inadvertently placed in the MGP stream). Figure 7-3 shows the breakdown of Targeted MGP, as well as the contamination percentage.

**Figure 8-3 Overview of Targeted Recyclables and Contamination in MGP**



## 8 RESULTS: MGP

Figure 8-4 shows the MGP contamination rate by borough. As shown, MGP contamination levels fell within a range of 13 to 20 percent.

**Figure 8-4 Contamination in MGP by Borough**

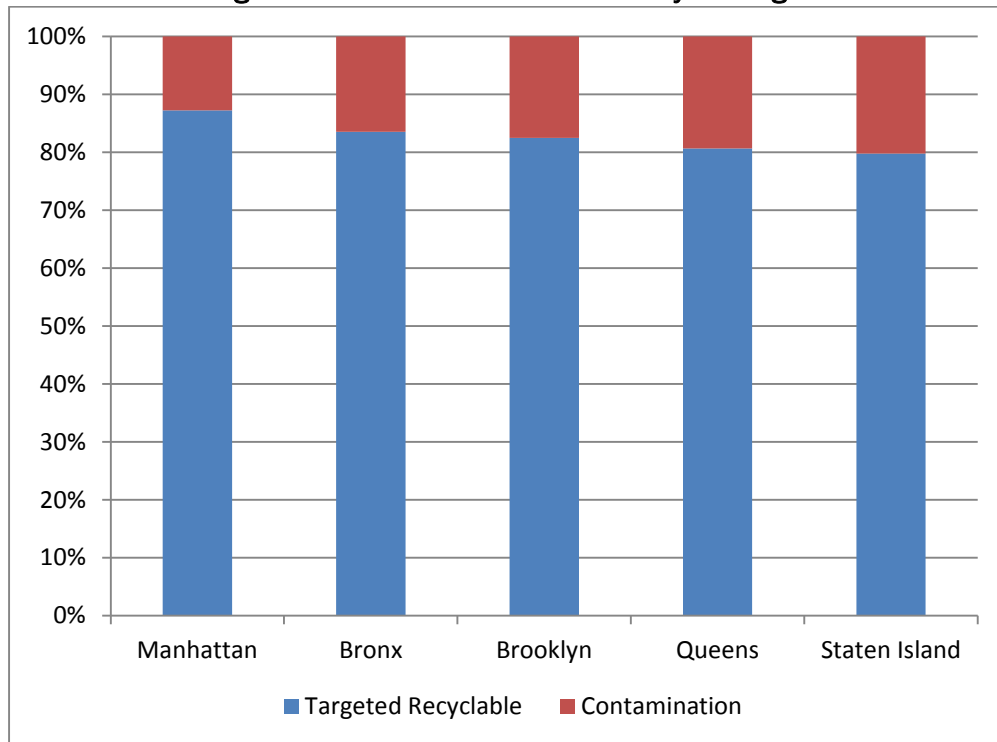
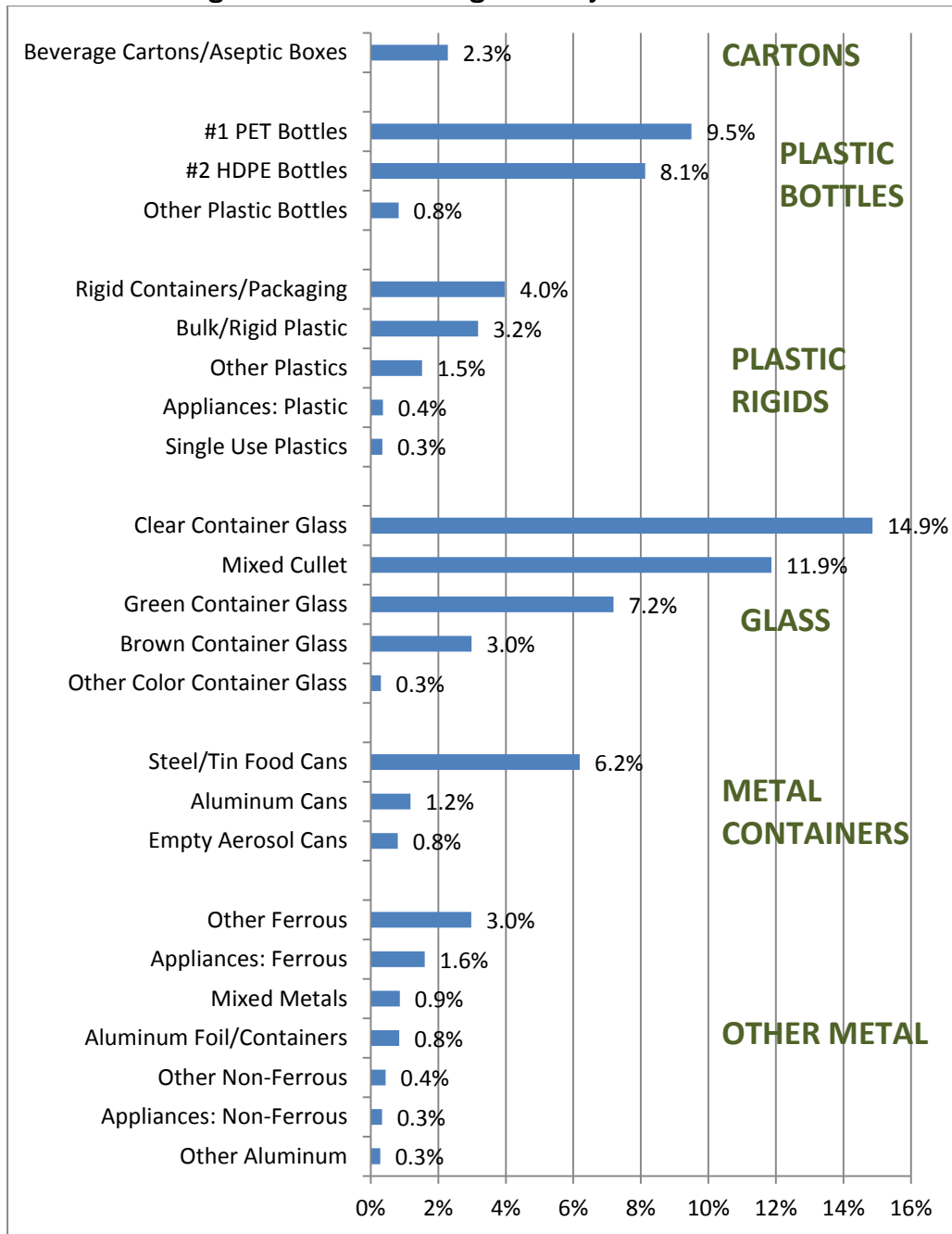


Figure 8-5 illustrates the relative incidence of each Targeted MGP material in the MGP stream.

**Figure 8-5 Detail of Targeted Recyclables in MGP**



## 8 RESULTS: MGP

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### 8.4 MGP CAPTURE RATES

The Capture Rate is defined as the amount of a Targeted Recyclable that is actually set out in the proper material stream for recycling, relative to the universe of that particular Targeted Material generated. In New York City, to be considered “captured” for recycling, a Targeted MGP material would have to be set out in the MGP stream, and a Targeted Paper material would have to be set out in the Paper stream. A Targeted MGP material set out in the Paper stream would not be captured, nor would a Targeted Paper material be captured in the MGP stream.

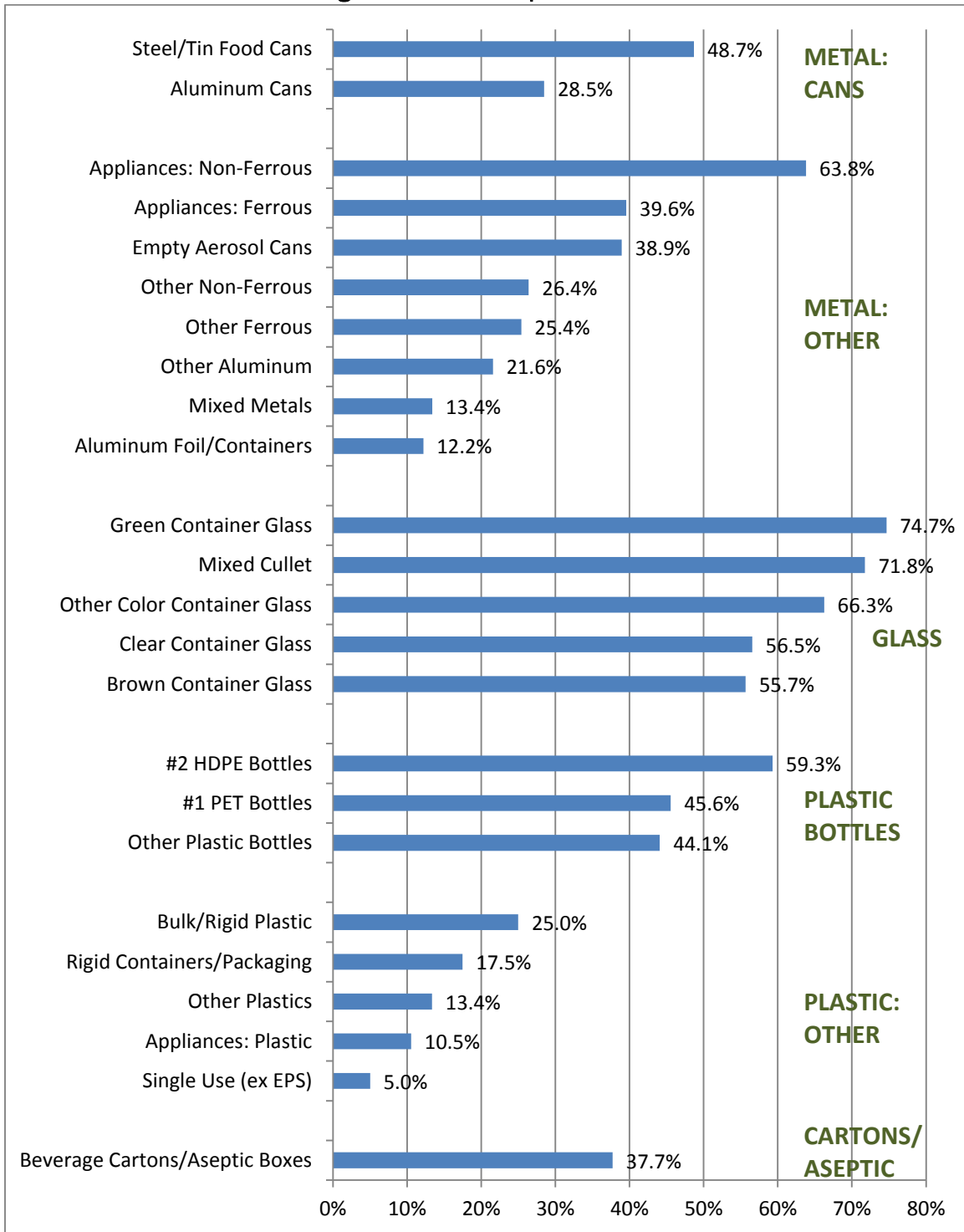
The Capture Rate is calculated using two different definitions of what materials are included in Targeted Recyclables. As previously described, prior to April 2013, only Plastic Bottles were Targeted for recycling. Subsequent to April 2013, the City added All Rigid Plastics to the program. Expansion of the list of Targeted Recyclables had an adverse impact on the overall Capture Rate, which would be expected to increase over time as residents begin to change their behavior and shift Rigid Plastics from the Refuse stream to the MGP stream. Table 8-3 shows the overall MGP Capture Rate using both definitions of Targeted MGP.

**Table 8-3 MGP Capture Rate**

<b>Material Group</b>	<b>Capture Rate, Plastic Bottles Only</b>	<b>Capture Rate, All Rigid Plastics</b>
Metal	30.1%	30.1%
Glass	63.9%	63.9%
Plastic	50.6%	29.7%
Cartons	37.7%	37.7%
<b>Total</b>	<b>48.2%</b>	<b>39.5%</b>

Figure 8-6 below shows the capture rates for individual MGP materials. As shown, Capture Rates range from a high of almost 75 percent for Green Container Glass, to a low of five percent for Single Use Plates/Cups/Cutlery (excluding EPS). Glass and Plastic bottles and cans have the highest Capture Rates, while the newly Targeted Rigid Plastic items have the lowest.

Figure 8-6 MGP Capture Rates

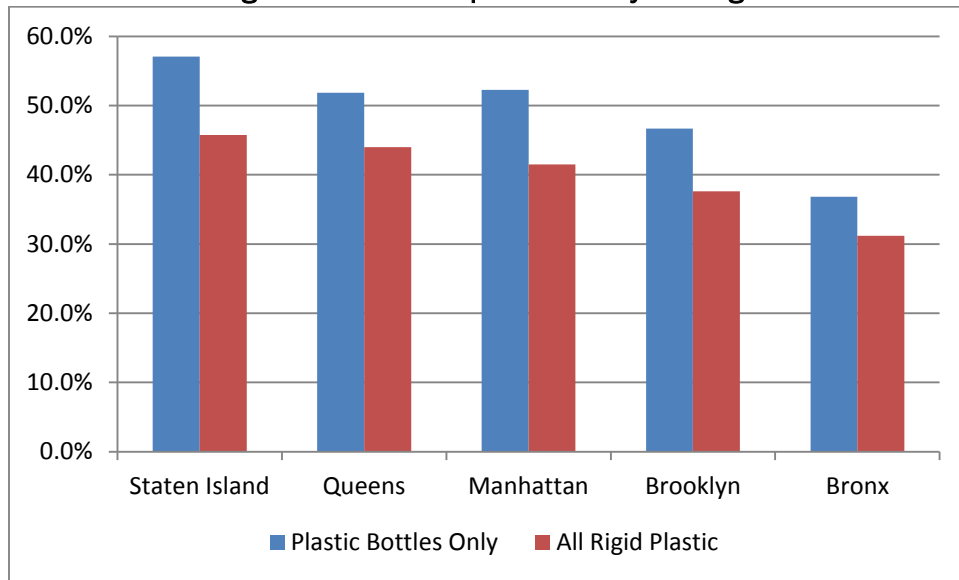


## 8 RESULTS: MGP

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Figure 8-7 shows the Capture Rates by Borough, measured assuming Plastic Bottles only are considered Targeted Recyclables, and also with All Rigid Plastics considered Targeted Recyclables.

**Figure 8-7 MGP Capture Rate by Borough**

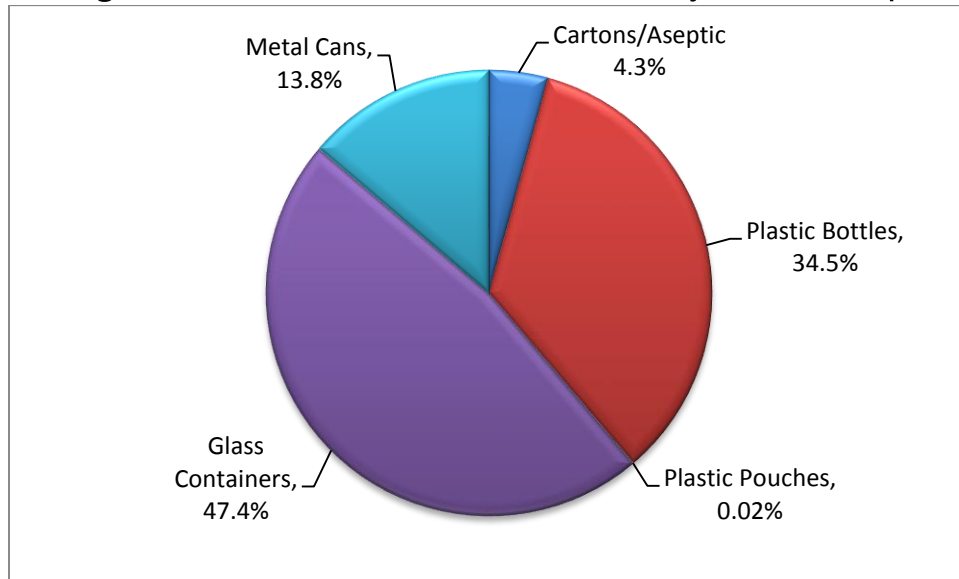




### 8.5 FOCUS ON BOTTLES, CANS AND CARTONS<sup>1</sup>

Over 139,000 tons of bottles, cans and cartons were found to exist in MGP. Figure 8-8 shows the relative contribution of each material type. Glass bottles and jars make up almost 50 percent of all containers in MGP, with Plastic bottles contributing almost 35 percent. Far greater detail about the incidence of various containers in the MGP stream can be found in Exhibit 6a-d in Appendix K.

**Figure 8-8 Bottles, Cans and Cartons in MGP, by Material Group**

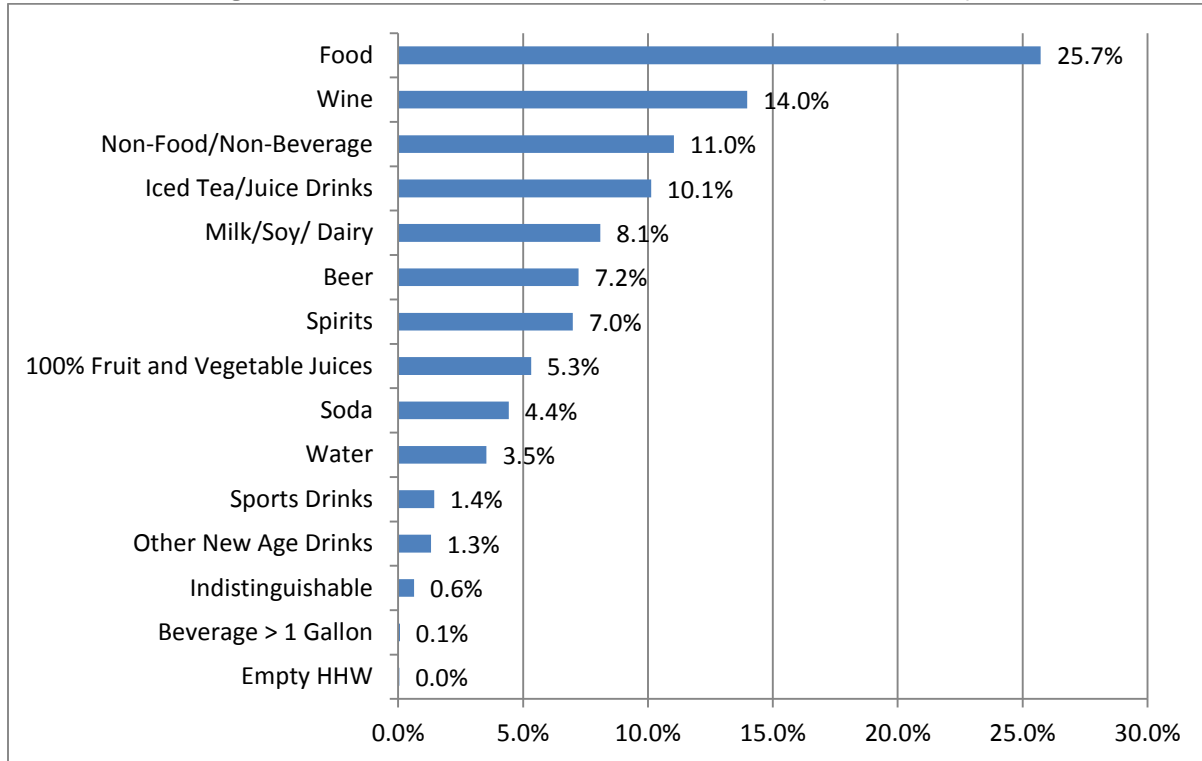


<sup>1</sup> The term “Bottles, Cans and Cartons” is used to denote all bottles, jars, cans, cartons, and drink pouches whether they contain beverage, food, or non-food materials.

## 8 RESULTS: MGP

Bottles, cans and cartons were further sorted into 14 product categories, plus one category for “indiscernible” product type. Figure 8-9 shows the incidence of each product type from largest to smallest. It is noteworthy that the most prevalent product types in the MGP stream are those not targeted in the New York State bottle bill.

**Figure 8-9 Bottles, Cans and Cartons in MGP, by Product Type**

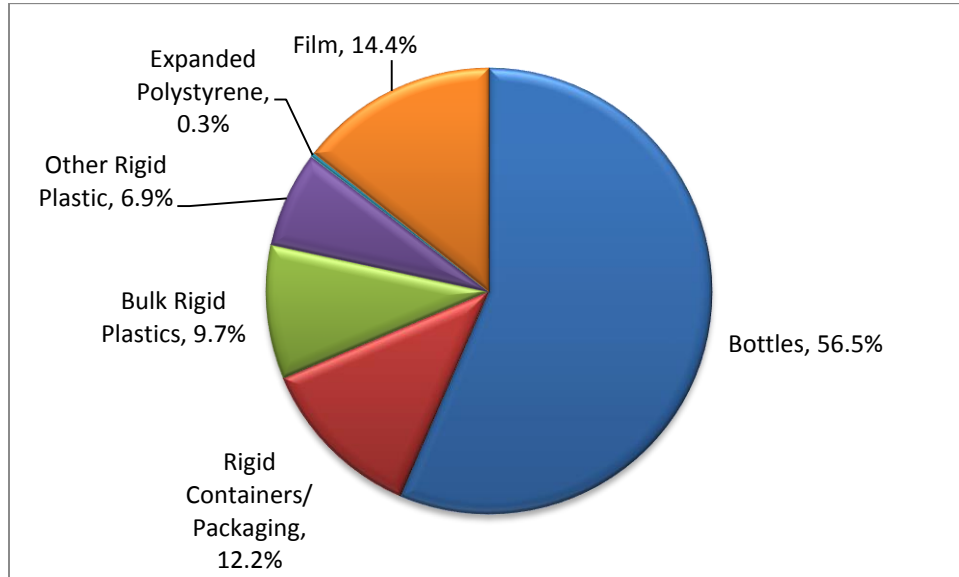


Far greater detail about the incidence of various containers in the MGP stream can be found in Exhibit 8a-d in Appendix K.

## 8.6 FOCUS ON PLASTICS

Over 69,000 tons of Plastic were found in the MGP stream. Figure 8-10 shows a breakdown of Plastics by several product types that are generally important to gauge recyclability. As shown, Plastic Bottles were found to be the single largest class of plastics in the MGP stream. Rigid Containers/Packaging, Other Rigid Plastics and Film Plastics contributed roughly comparable fractions to MGP.

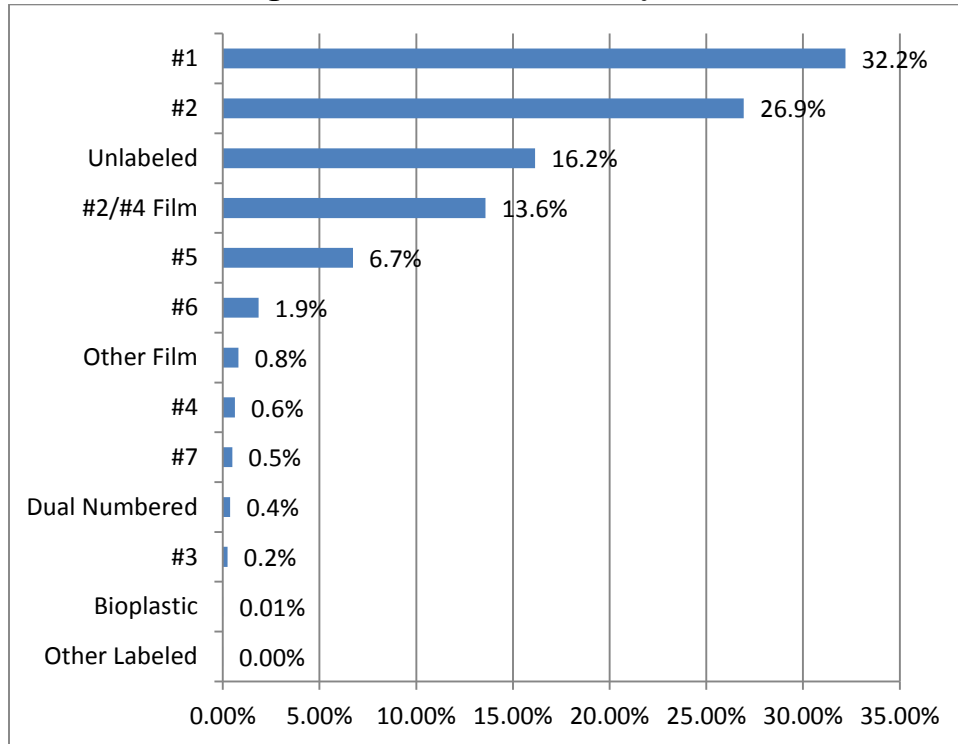
**Figure 8-10 Plastics in MGP, by Product Category**



## 8 RESULTS: MGP

Rigid and expanded plastics were sorted into multiple resin categories – primarily resins numbered one through seven, but also including unlabeled and other resins. Films were sorted into two resins: polyethylenes (#2 and #4 combined) and all other films. Figure 8-11 shows the incidence of each resin type in the MGP stream. #1 PET and #2 HDPE were the two most prevalent resin types in MGP. Interestingly, Unlabeled resins were more prevalent than #5 PP.

Figure 8-11 Plastics in MGP, by Resin



Far greater detail about the incidence of plastics in the MGP stream by resin and product type can be found in Exhibit 10a-d in Appendix K.

### 8.7 CONCLUSION

The data contained in this section are but a fraction of the comprehensive information that is presented in Appendix K. Each of the figures and tables in this section can be duplicated for individual boroughs. Further, many of the results that are shown in the aggregate here (for example, the breakdown of Plastic resins by resin type) can be calculated for individual plastic product categories. Interested readers are encouraged to review the tabular data in Appendix K for further insight into the MGP stream.

## 9 RESULTS: PAPER

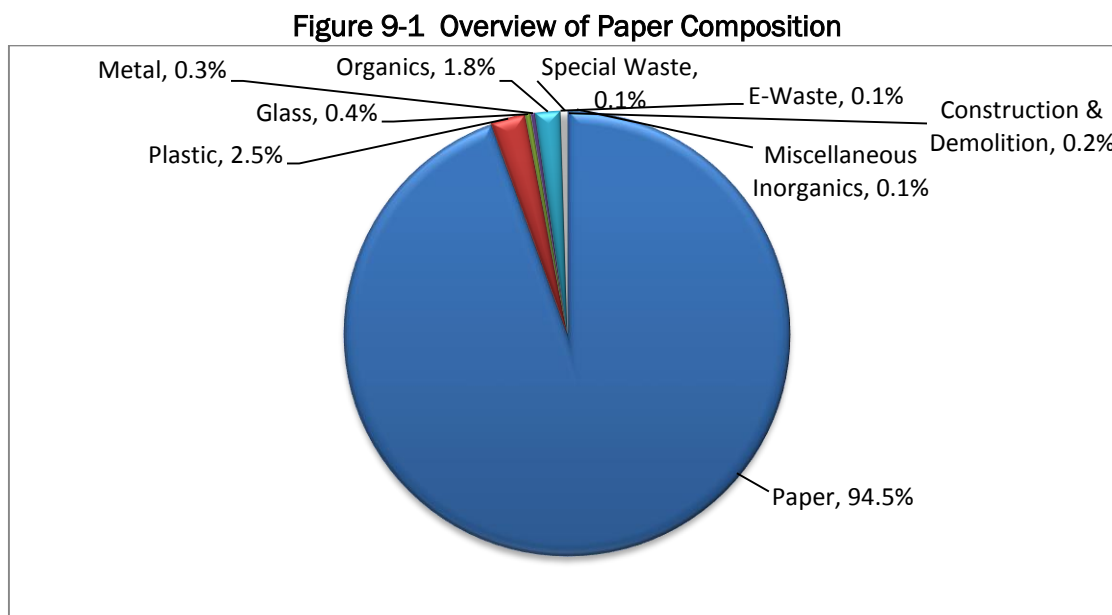
### 9.1 INTRODUCTION

Complete and detailed numerical results are contained in Appendix K to this report, and electronic copies of these exhibits have been delivered to DSNY and SMRNY for their use. The purpose of this section is to highlight noteworthy findings via a combination of graphical and tabular summary data. Results in this section focus on the over 285,000 tons of Paper collected by DSNY in FY13.

Throughout this section, for the sake of simplicity, results are presented in terms of percent composition by weight. An alternative means of presentation would be to provide results in terms of annual tons. Both percentage and tonnage data are included in Appendix K.

### 9.2 COMPOSITION

Figure 9-1 shows the breakdown of Paper by the major material groups included in the study. As shown, almost 96 percent of Paper is in fact Paper (although not all of that is Targeted recyclables). Plastics are the single most prevalent contaminant.



## 9 RESULTS: PAPER

Table 9-1 highlights the ten most prevalent individual material categories found in Paper. Only four categories of Paper were separated during the sort, and these are the top four most common items in Paper. Collectively, almost 93 percent of the Paper stream consisted of Targeted materials. The most prevalent contaminant was Film Garbage Bags.

**Table 9-1 Top 10 Most Prevalent Materials in Paper**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Plain OCC/Kraft Paper	33.7%	33.7%	96,307
Mixed Low Grade Paper	31.9%	65.7%	91,099
Newspaper	21.1%	86.7%	60,107
High Grade Paper	5.9%	92.7%	16,966
Film Plastic: Garbage Bags	1.1%	93.7%	3,014
Other Nonrecyclable Paper	0.9%	94.6%	2,472
Food	0.8%	95.3%	2,149
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.6%	96.0%	1,726
Paper Beverage Cartons/Aseptic Boxes	0.3%	96.3%	973
Film Plastic: All Other Film	0.3%	96.6%	925
<b>Subtotal</b>	<b>96.6%</b>		<b>275,737</b>
All other materials	3.4%		9,654
<b>Total</b>	<b>100.0%</b>		<b>285,391</b>

Table 9-2 provides a detailed summary of Paper composition. This table also shows the confidence interval associated with the mean composition, to a 90 percent level of confidence. Finally, this table distributes the 285,000 tons of Paper collected in FY13 based on results of the study for the purpose of projecting the likely absolute quantity of each material contained in the New York City Paper stream. Table 9-2 – as well as the underlying data for Figure 9-1 and Table 9-1 – can also be found as Exhibit 4b in Appendix K.

## 9 RESULTS: PAPER

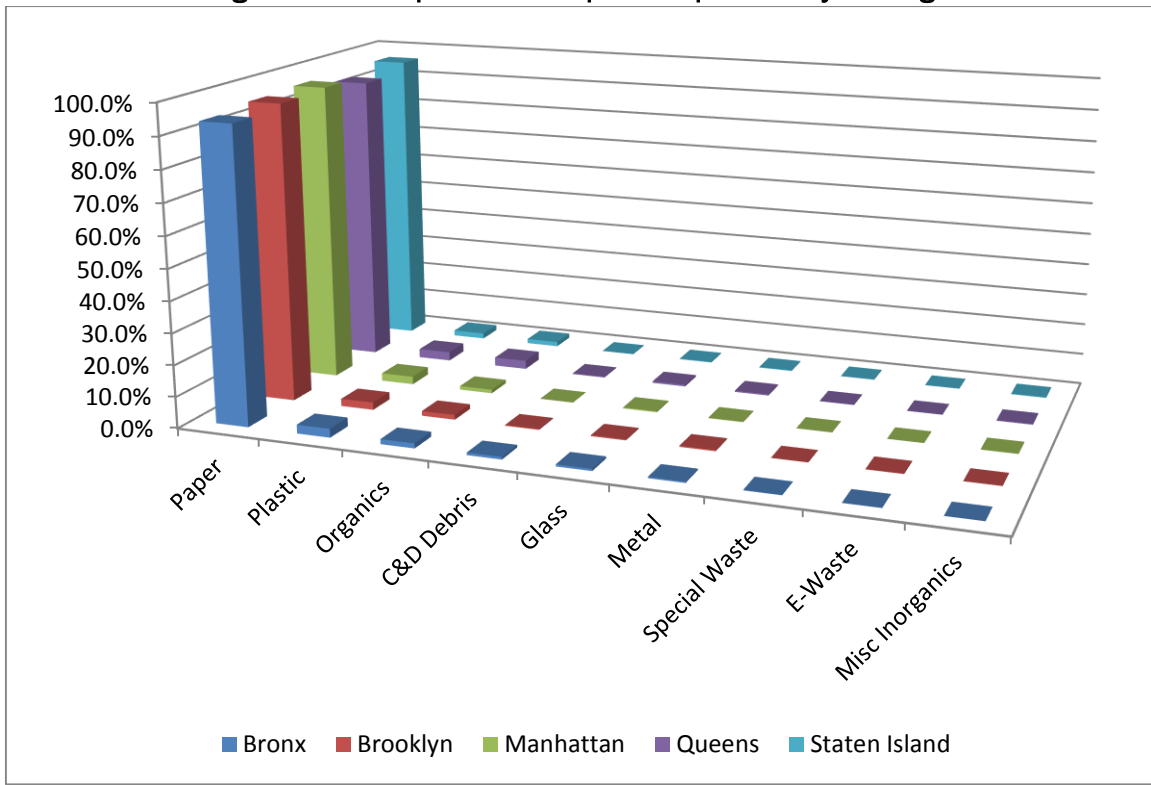
Table 9-2 Detailed Paper Composition

Material	Estimated		Estimated Tons	Material	Estimated		Estimated Tons
	Percent	+ / -			Percent	+ / -	
<b>Paper</b>	<b>94.5%</b>	<b>0.6%</b>	<b>269,649</b>	<b>Organics</b>	<b>1.8%</b>	<b>0.4%</b>	<b>5,133</b>
Newspaper	21.1%	1.9%	60,107	Yard Waste	0.0%	0.1%	134
Plain OCC/Kraft Paper	33.7%	2.5%	96,307	Food	0.8%	0.2%	2,149
High Grade Paper	5.9%	1.5%	16,966	Non-C&D Wood	0.1%	0.1%	245
Mixed Low Grade Paper	31.9%	1.6%	91,099	Textiles: Non-Clothing	0.1%	0.1%	371
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.6%	0.2%	1,726	Textiles: Clothing	0.1%	0.1%	310
Other Nonrecyclable Paper	0.9%	0.2%	2,472	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.1%	973	Disposable Diapers/Sanitary Products	0.1%	0.0%	176
				Animal By-Products	0.0%	0.0%	131
<b>Plastic</b>	<b>2.5%</b>	<b>0.2%</b>	<b>7,224</b>	Shoes/Rubber/Leather	0.3%	0.3%	824
#1 PET Bottles	0.2%	0.0%	461	Fines	0.2%	0.0%	578
#2 HDPE Natural Bottles	0.1%	0.0%	149	Miscellaneous Organics	0.1%	0.1%	215
#2 HDPE Pigmented Bottles	0.0%	0.0%	93				
Other Plastic Bottles	0.0%	0.0%	44	<b>E-Waste</b>	<b>0.1%</b>	<b>0.1%</b>	<b>164</b>
Rigid Plastic Containers/Packaging	0.2%	0.0%	580	Audio/Visual Equipment-TV Peripherals (Covered)	0.0%	0.0%	13
#6 EPS Containers/Packaging (including Single Use)	0.2%	0.0%	447	Audio/Visual Equipment-Other (Non-Covered)	0.0%	0.1%	129
Film Plastic: Retail Bags/Sleeves	0.2%	0.0%	591	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	1.1%	0.1%	3,014	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	4	Other Computer Equipment	0.0%	0.0%	21
Film Plastic: All Other Film	0.3%	0.0%	925				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.0%	0.0%	115	<b>Construction &amp; Demolition</b>	<b>0.2%</b>	<b>0.1%</b>	<b>700</b>
Appliances: Plastic	0.0%	0.0%	54	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	17
Bulk/Rigid Plastic	0.1%	0.0%	240	Treated/Contaminated Wood	0.1%	0.1%	146
Other Plastics	0.2%	0.1%	508	Other C&D Debris Not Elsewhere Classified	0.2%	0.1%	537
<b>Glass</b>	<b>0.4%</b>	<b>0.1%</b>	<b>1,134</b>	<b>Special Waste</b>	<b>0.1%</b>	<b>0.0%</b>	<b>192</b>
Clear Container Glass	0.1%	0.1%	404	Oil Filters	0.0%	0.0%	1
Green Container Glass	0.0%	0.0%	77	Antifreeze	0.0%	0.0%	4
Brown Container Glass	0.0%	0.0%	98	Wet-Cell Batteries	0.0%	0.0%	6
Other Color Container Glass	0.0%	0.0%	0	Water-Based Adhesives/Glues	0.0%	0.0%	28
Mixed Cullet	0.1%	0.0%	187	Latex Paint	0.0%	0.0%	0
Other Glass	0.1%	0.1%	368	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>0.3%</b>	<b>0.1%</b>	<b>889</b>	Dry-Cell Batteries	0.0%	0.0%	45
Aluminum Cans	0.0%	0.0%	138	Fluorescent Tubes/CFLs	0.0%	0.0%	0
Aluminum Foil/Containers	0.0%	0.0%	74	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	10	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	43	Home Medical Products	0.0%	0.0%	99
Steel/Tin Food Cans	0.1%	0.0%	261	Other Potentially Harmful Wastes	0.0%	0.0%	10
Empty Aerosol Cans	0.0%	0.0%	43				
Other Ferrous	0.1%	0.0%	185	<b>Miscellaneous Inorganics</b>	<b>0.1%</b>	<b>0.1%</b>	<b>307</b>
Mixed Metals	0.0%	0.0%	70				
Appliances: Ferrous	0.0%	0.0%	26	<b>Totals</b>	<b>100%</b>		<b>285,391</b>
Appliances: Non-Ferrous	0.0%	0.0%	37	<b>Sample Count</b>	<b>130</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

Paper composition was found to be highly comparable across boroughs. This is shown in Figure 9-2

Figure 9-2 Comparison of Paper Composition by Borough

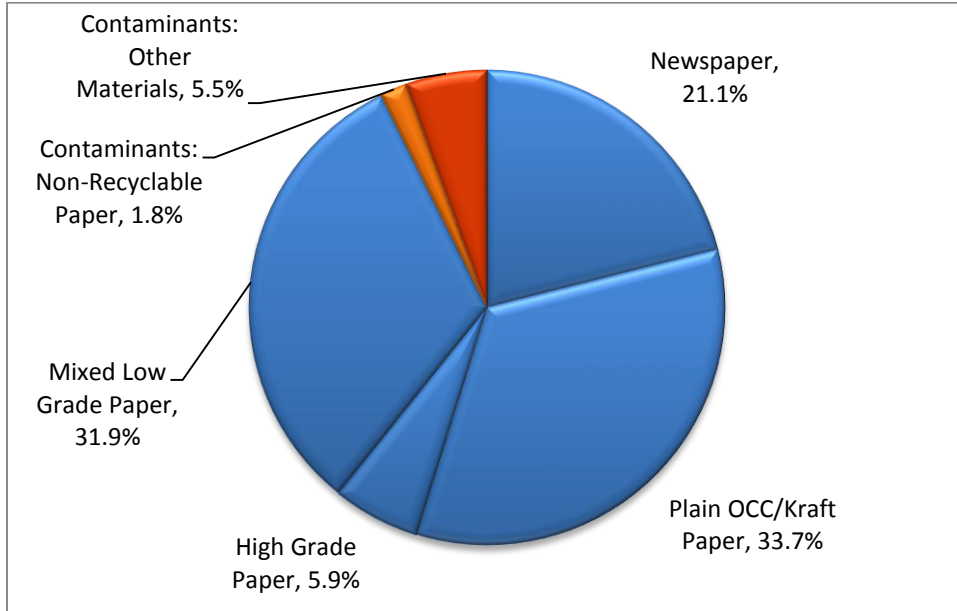




9.3 TARGETED RECYCLABLES VS. CONTAMINATION

Of the roughly 285,000 tons collected as Paper, over 269,000 tons or 92.7 percent, were correctly placed in the Paper stream and therefore available for recovery. Figure 8-3 shows the breakdown of Targeted Paper, as well as the contamination percentage.

Figure 9-3 Overview of Targeted Recyclables and Contamination in Paper



## 9 RESULTS: PAPER

Figure 9-4 shows the Paper contamination rate by borough. As shown, Paper contamination levels fell within a range of 5.6 to 9.4 percent.

**Figure 9-4 Contamination in Paper by Borough**

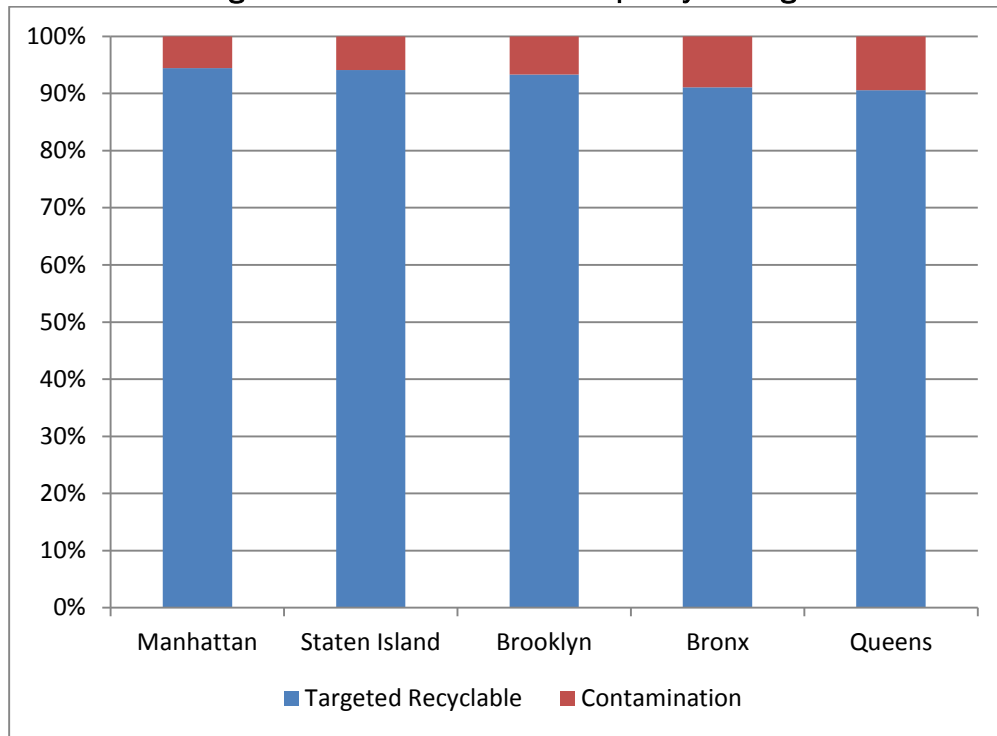
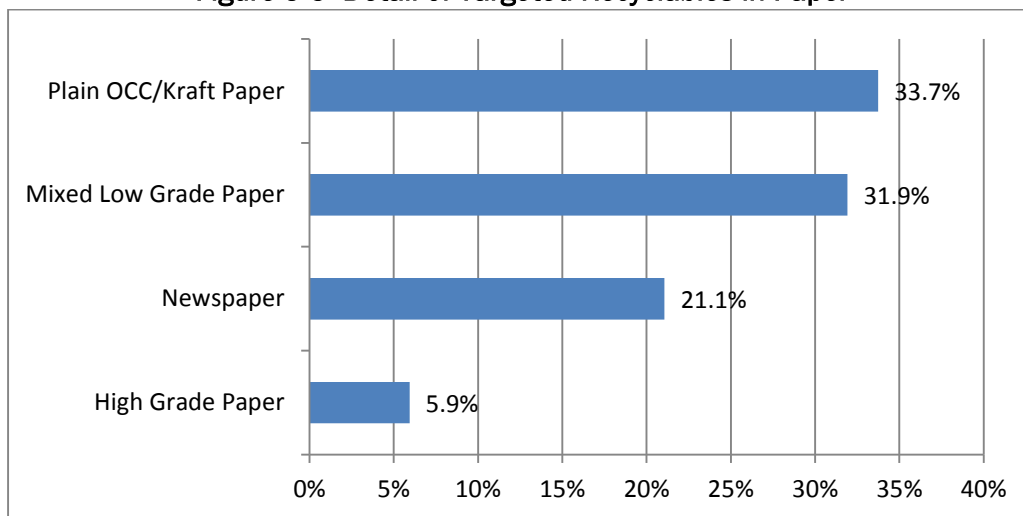


Figure 9-5 illustrates the relative incidence of each Targeted Paper material in the Paper stream.

**Figure 9-5 Detail of Targeted Recyclables in Paper**



9.4 PAPER CAPTURE RATES

The Capture Rate is defined as the amount of a Targeted Recyclable that is actually set out in the proper material stream for recycling, relative to the universe of that particular Targeted Material generated. In New York City, to be considered “captured” for recycling, a Targeted Paper material would have to be set out in the Paper stream, and a Targeted MGP material would have to be set out in the MGP stream. A Targeted Paper material set out in the MGP stream would not be captured, nor would a Targeted MGP material be captured in the Paper stream. Figure 9-6 below shows the capture rates for individual Paper materials, as well as for Targeted Paper in the aggregate (see red bar). As shown, the Citywide Capture Rate is almost 47 percent.

Figure 9-6 Paper Capture Rates

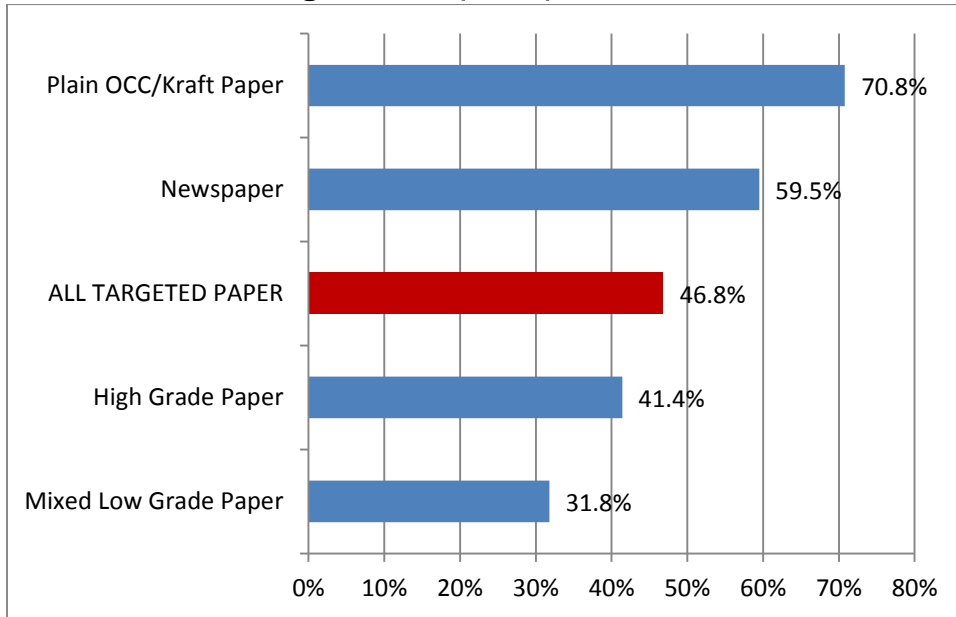
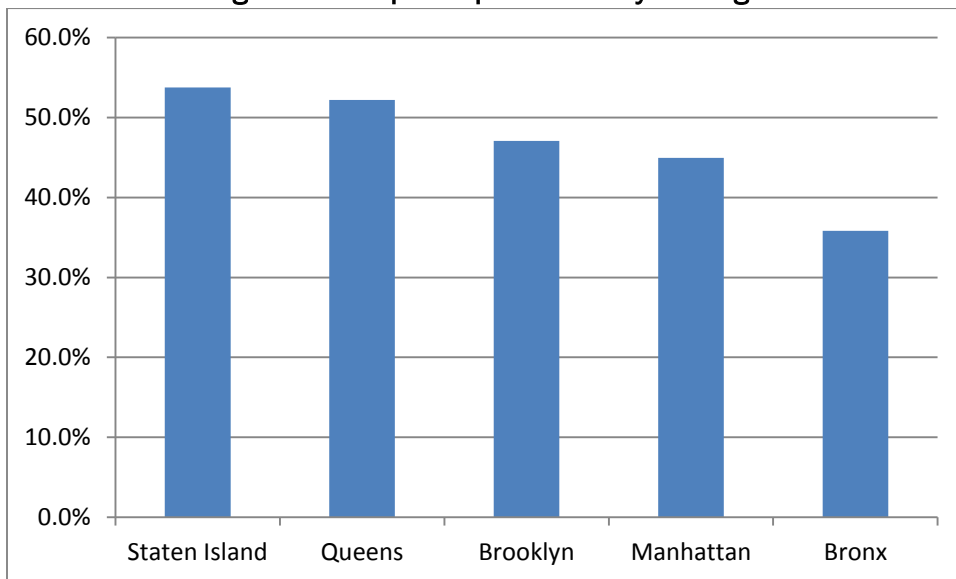


Figure 9-7 shows the Capture Rates by Borough.

Figure 9-7 Paper Capture Rate by Borough



## **9 RESULTS: PAPER**

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### **9.5 FOCUS ON BOTTLES, CANS AND CARTONS**

Bottles, cans and containers are not targeted in the Paper stream. Although these materials were segregated during the sort, and comparable results are included in Appendix K for bottles, cans and cartons in the Paper stream, these materials are incidental in Paper and are not presented here.

### **9.6 FOCUS ON PLASTICS**

Plastics are not targeted in the Paper stream. Although these materials were segregated during the sort, and comparable results are included in Appendix K for Plastics by Resin in the Paper stream, these materials are incidental in Paper and are not presented here.

### **9.7 CONCLUSION**

The Paper stream was found to contain predominantly Targeted materials. Interested readers are encouraged to review the tabular data in Appendix K for further insight into the Paper stream.

## 10 CONCLUSIONS

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The following conclusions can be drawn from the 2013 WCS:

- ◆ **Comprehensiveness:** The 2013 WCS was successfully able to obtain and analyze a statistically significant, representative number of samples of Refuse, MGP and Paper. With almost 570 samples captured, the study provided a comprehensive snapshot of the Waste stream managed by DSNY, using FY2013 as the time period for applying the data.
- ◆ **Comparability:** The results of the 2013 WCS can be closely compared to prior studies. While it was beyond the scope of this report to include extensive comparative data, the material categories, sampling methods and sorting methods largely paralleled the 2004 Preliminary Waste Characterization Study and the 2005 Waste Characterization Study. Results for composition, contaminants in the Recycling Stream, and Capture Rates have all been calculated in the same manner as in the 2005 WCS.
- ◆ **Impact of All Rigid Plastics Recycling on Study Results:** Although not discussed elsewhere in this report, it should be noted that the City's decision to expand the list of Targeted MGP materials to include all rigid plastic items in April 2013 did not appear to adversely impact the data compilation or analysis of results. There was no discernible change in the monthly quantities of Refuse or MGP collected before and after the program change. Nor did the composition of MGP vary between the September 2012 and May 2013 data collection events, even though the first sort preceded the program change, and the second sort occurred after announcement of the change.
- ◆ **Expanded Focus on Containers:** The 2013 WCS incorporated one of the most detailed sorts of metal cans, glass bottles and jars, plastic bottles, and paper cartons/aseptic boxes ever attempted. Although it was beyond the scope of this report to provide exhaustive analysis of these data, sufficient information exists to evaluate the potential impact on New York City recycling of any number of state or local policy changes that targets virtually any narrow-necked container, metal can, gable top carton, juice box, or film pouch, whether beverage or non-beverage.
- ◆ **Plastic Resin and Product Composition:** Plastics are customarily sorted based on some combination of product type and resin. The 2013 WCS required that every rigid plastic item be characterized both by a range of product/use types, and also by resin number. For plastic film, the 2013 WCS further segregated polyethylene films from other films. These data are becoming increasingly important to processors, who are designing ever more advanced systems to sort and remove plastics of various sizes and resins with optical sorting technologies. The data in the 2013 WCS are intended to inform DSNY and its processor as to the likely recovery rate by such advanced processing equipment.

## 10 CONCLUSIONS

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## 11 GLOSSARY/ACRONYMS

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<b>Borough:</b>	The five political/geographic areas of New York City: Manhattan, Brooklyn, Bronx, Queens, and Staten Island.
<b>Bottles, Cans and Cartons:</b>	Refers to recyclable bottles, cans, cartons and film pouches that contain beverages as well as non-beverage products, and which underwent comprehensive subsorting. Serves to update the legacy term “Beverage Containers” which arose from original bottle deposit legislation that targeted only bottles and cans that contained certain beverages.
<b>Bulk Item:</b>	As defined for the NYC WCS, any item of waste that will not fit into a 96-gallon container.
<b>C&amp;D:</b>	An abbreviation of construction and demolition debris, a material group in the NYC WCS.
<b>Capture Rate:</b>	The amount of materials set out for residential recycling collection as a percentage of designated recyclable materials in both recycling and refuse streams. This ratio measure how much of the targeted materials are actually being recycled, which is a measure of how successfully such materials are recycled.
<b>City:</b>	New York City
<b>Composition Table:</b>	The tabular data contained in the contract between DSNY and SMRNY that dictates the composition of the MGP stream for purposes of calculating the value of the MGP
<b>Confidence Interval:</b>	A range within which the true Mean of the population is believed to lie with the given confidence level.
<b>Confidence Level:</b>	The certainty with which the true Mean lies within the interval determined. For the NYC WCS, a 90 percent confidence level is the industry standard for Waste Characterization Studies. Note that the use of a 90 percent level instead of a 95 percent level (the standard for scientific research) does not (a) affect the calculation of means, only the width of intervals around the means or (b) preclude the application of a 95 percent confidence level to results if such an analysis is of interest.
<b>Contamination Rate:</b>	The percentage of material that is found in the containers set out for residential recycling collection that is not accepted in New York City’s curbside recycling program.
<b>Count:</b>	The process of counting the individual items that were subsorted.
<b>Curbside Collection:</b>	The collection of residential refuse or recycling in bins or bags set out in proximity to residences that generate these types of waste. DSNY provides curbside refuse collection to all residents two or three times per week and recycling curbside collection once per week.
<b>Deposit (containers):</b>	Beverage containers for which, under the New York State Redeemable Container Law, the purchaser is required to pay a deposit. The deposit may be

## 11. GLOSSARY/ACRONYMS

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	redeemed when the empty containers are returned to a retailer or authorized redemption center.
<b>District:</b>	The 59 areas within New York City used by the Department of Sanitation to administer the City's waste management program. These districts are co-terminus, or identical, to the 59 Community Districts.
<b>Diversion Rate:</b>	The amount of materials set out for recycling collection as a percentage of the total residential waste collected.
<b>DSNY:</b>	New York City Department of Sanitation.
<b>Dual-bin Trucks:</b>	DSNY collection trucks with two compartments used for the simultaneous collection of curbside residential Paper and MGP.
<b>Durable:</b>	An item of residential waste that is not putrescible, packaging, or unfinished material, but is a durable object, such as an appliance, piece of furniture, or other household item.
<b>Field Procedures Manual:</b>	This document, summarizing the methods for planning, executing, and analyzing the results of the New York City 2013 Waste Characterization Study.
<b>Film (Plastic):</b>	A category of flexible plastic material used for packaging, trash bags and other applications, typically made of polyethylene or polypropylene.
<b>HDPE:</b>	An abbreviation for high density polyethylene; a plastic denoted by a #2 inside the "chasing arrows" recycling symbol.
<b>HHW:</b>	An abbreviation for Household Hazardous Waste, one of the material groups in the NYC WCS.
<b>Late Week/ Early Week:</b>	A criterion used in the PWCS based on the idea that the composition of the waste discarded during the latter part of the week differs significantly from the composition of waste discarded during the early part of the week.
<b>LDPE:</b>	An abbreviation for low density polyethylene, a plastic denoted by a #4 inside the "chasing arrows" recycling symbol.
<b>Main Sort Table:</b>	The first table on which a sample is loaded during the sorting process.
<b>Material Categories:</b>	The classification of all materials in the waste stream into categories for sorting, weighing, and counting purposes. In the NYC WCS, 91 Material Categories were used to characterize the City's waste stream.
<b>Material Groups:</b>	Groupings of material categories used to simplify or generalize results. The Material Groups used in the NYC WCS are: Paper, Plastic, Glass, Metal, Organics, Appliances/Electronics, Construction and Demolition Debris, Miscellaneous Inorganics, and Household Hazardous Waste.
<b>Mean:</b>	The sum of the values of all observations divided by the number of observations, also known as average. In analyzing the composition of samples of waste, refuse, recycling, and the contents of street baskets, the best estimate of the true percentage of each material in the population is the Mean percentage of that material from all of the samples.



<b>MGP:</b>	An acronym for Metal, Glass, Plastic and Cartons. (Historically, this stream included only Metal, Glass and Plastic but did not include Cartons. The acronym has been retained in this report in deference to historical precedence.) One of the two streams of recycling collected by the DSNY consisting of plastic bottles and jugs; glass bottles and jars; metal cans and household objects; aluminum foil, trays and cans, and gable top beverage cartons. The other stream of recycling collected by DSNY is Paper.
<b>Mixed Cullet:</b>	Broken glass in small pieces (under 3” x 3”) of mixed color.
<b>MSW:</b>	An acronym for Municipal Solid Waste.
<b>Non-deposit (containers):</b>	Beverage containers which are not designated as deposit containers under the New York State Redeemable Container Law.
<b>NYC:</b>	New York City
<b>NYC WCS:</b>	New York City Waste Characterization Study
<b>OCC:</b>	An abbreviation for old corrugated cardboard, one of the material categories in the PWCS and the NYC WCS.
<b>ONP:</b>	An abbreviation for old newspaper, one of the material categories in the PWCS and the NYC WCS.
<b>Paper:</b>	The second of two streams of recyclable materials collected by DSNY consisting of newspapers; magazines; catalogues; junk mail; white office paper; mixed paper; and gray and corrugated cardboard/paperboard. The other stream is Metals/Glass/Plastic (MGP).
<b>PET:</b>	An abbreviation for polyethylene terephthalate, a plastic denoted by #1 inside the “chasing arrows” recycling symbol.
<b>Plastics:</b>	Materials made of plastic, whether rigid, expanded or film.
<b>PP:</b>	An abbreviation for polyethylene propylene, a plastic denoted by #5 inside the “chasing arrows” recycling symbol.
<b>PPE:</b>	An acronym for Personal Protective Equipment.
<b>PS:</b>	An abbreviation for polystyrene, a plastic denoted by #6 inside the “chasing arrows” recycling symbol.
<b>PWCS:</b>	The preliminary waste characterization study conducted by the New York City Department of Sanitation in 2004.
<b>PVC:</b>	An abbreviation for polyvinyl chloride, a plastic denoted by #3 inside the “chasing arrows” recycling symbol.
<b>Recyclables:</b>	Materials that have been targeted by NYC for recovery and return to the stream of commerce.
<b>Recycling:</b>	The act of recovering items or materials that might have been discarded and, usually after processing, returning them to the stream of commerce. Also, the materials that are set out for recycling collection.
<b>Refuse:</b>	Items or materials that are discarded and disposed.

## 11. GLOSSARY/ACRONYMS

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<b>Rizzo Sheet:</b>	The list of routes to be sampled each night of the study, as recorded in an Excel file prepared by the City and used as the basis for communicating with the Sampling Coordinator.
<b>Sample:</b>	A portion of a population used to estimate the composition of the population as a whole. The Sample is made up of multiple Sampling Units.
<b>Sample Acquisition, or Sampling:</b>	The procedure for selecting Sampling Units for the population.
<b>Sample Mass:</b>	The weight of a sample.
<b>Sample Number:</b>	The number of Sampling Units in a sample.
<b>Sample Weight:</b>	The weight of Sampling Unit. In the WCS, each refuse sampling unit was between 200 and 300 pounds.
<b>Sampling Unit:</b>	A single elementary unit used as the basis for estimating the composition of the population.
<b>SCAN system:</b>	DSNY's database of waste collection routes and quantities.
<b>Section:</b>	Each of the City's 59 Sanitation Districts is divided into 3 to 5 Sanitation District Sections within which routes are designed and tonnage data is collected daily.
<b>SMRNY:</b>	Sims Municipal Recycling of New York LLC.
<b>Sorting:</b>	The procedure for separating a heterogeneous amount of material, such as a 200 pound Sampling Unit of refuse, into its constituent material categories.
<b>Sorting Period:</b>	The days or weeks when the sampling and sorting of waste took place during the NYC WCS.
<b>Standard Deviation:</b>	A measure of the dispersion or variability around the Mean of the weights of a group of Sampling Units of New York City waste.
<b>Subsorts:</b>	The process of sorting a particular material into smaller constituent components (e.g. drinking containers were subsorted into deposit and non-deposit containers).
<b>Subsort Table:</b>	A secondary sort table which receives a subset of materials from the Main Sort Table that have been partially sorted and require a second, more detailed sort.
<b>Targeted:</b>	Refers to a recyclable metal, glass, plastic or paper commodity that is designated recyclable in New York City's recycling program.
<b>Waste:</b>	The combination of Refuse and Recycling.
<b>Waste Stream:</b>	Either the Refuse, Paper or MGP material streams collected by DSNY.
<b>Waste Generation:</b>	The rate at which waste is set out for collection, typically reported in terms of amounts per generator per time period (e.g. pounds per capita per week).
<b>WCS:</b>	The waste characterization studies conducted over four seasons by the New York City Department of Sanitation in 1990, 2005, and 2013.

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**APPENDIX A**  
**PROJECT TEAM STAFFING**

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## 2012-13 WCS Staffing Summary

<b>Task</b>	<b>Role</b>	<b>Season 1 - Sept 2012</b>	<b>Season 2 - May 2013</b>
<b>Project Management</b>	Project Manager	Walt Davenport	Walt Davenport
	Assistant Project Manager	John Culbertson	John Culbertson
	Data Manager	Dieter Eckels	Dieter Eckels
	QA/QC Officer	Mack Rugg	Mack Rugg
	Safety Manager	Mark Hart	Mark Hart
<b>Sampling Team</b>	Sampling Supervisor	Dieter Eckels	Dieter Eckels
	Sampling Managers	John Mulrow Hilary Near William Pochereva Marta Taggart	Jessica Coe Zachary Griffin Stephan Moedritzer
	Sampling Helpers	Muhammed Alli Taurean Burgesss Marcus Morrision Shadid Naylor Abemelec Rosado	Ronnie Blue Erik Dabney Anthony Mckever Warren Scales George Terrell
<b>Sorting Team</b>	Sorting Operations Supervisor	Dennis Holt	Dennis Holt
	Sort Training Manager	John Culbertson	John Culbertson
	Main Table Crew Chief (Refuse)	Randy Bowen John Bowles	N/A
	Main Table Crew Chiefs (MGP)	Marcie Encinas Rick Schlauder	Mark Hart
	Main Table Crew Chiefs (Paper)	N/A	Robert Worley
	Main Table Crew Chiefs (Organics)	N/A	Dennis Holt
	Subsort Table Crew Chiefs (Beverage)	Carl Hursh Rick Schlauder Robert Worley	Marcie Encinas Carl Hursh
	Subsort Table Crew Chiefs (Resin)	Ben Ditzler Joe Vetrano Mark Hart Natalee Henry	John Bowles Natalee Henry
	Sorters	Josefina Batista Jacqueline Collado Peguero Jorge Delgadillo Anyolina Espinal Rodriguez Teodosa Garcia Francisca Hernandez Alexis Keyter Hernandez Martina Herrejon Gamino Armando Murga Luis J Osoria Cardozo Janny Clarib Pimentel Santana Warner Rivera Ali Robinson	Maria Lourdes Acosta Hector Carabajal Bernarda Castillo Andrea De La Rosa Jorge Delgadillo Anyolina Espinal Rodriguez Francisca Hernandez Keyter Alexis Hernandez Adis Millan Miledys Perez De Marmol Rosa Rodriguez

## 2012-13 WCS Staffing Summary

<b>Task</b>	<b>Role</b>	<b>Season 1 - Sept 2012</b>	<b>Season 2 - May 2013</b>
<b>Sorting Team</b> (continued)		Rosa Rodriguez	
		Yelitza Sanchez	
		Romona Zapata	
		Enel Alphanor	
		Tyrone Brown	
		Xavier Brown	
		Jermaine Carolina	
		Christine Ceaser	
		Kastler Cherisme	
		Kim Clark	
		Hugh Donaldson	
		Rashad Eaton	
		Deshawn Frazier	
		Alnisa Johnson	
		Al-Tariq Jordan	
		Shawn Leverette	
		Gilbert Machado	
	Eberne Noziere		
	Eduardo Perez		
	Sonja Solomon		
	Morris Spicer		
	Dwight Taylor		
	Shunda Taylor		
<b>Data Management and Analysis</b>	Data Manager	Dieter Eckels	Dieter Eckels
	Assistant Data Manager	Katie Kennedy	Christine Culbertson
	Field Forms and Data Entry Architect	John Culbertson	John Culbertson
	Data Entry Clerk	Latifah Bostic Jose L Ferreira Vargas	Ina Velazquez-De Jesus

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**APPENDIX B**  
**SAMPLING SCHEDULE AND TARGETS**

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**Exhibit B-1 Sampling Schedule, September 2012**

	F		S		U		M		T		W		H		F		S	
	7-Sep		8-Sep		9-Sep		10-Sep		11-Sep		12-Sep		13-Sep		14-Sep		15-Sep	
	Person	Samp. #	Person	#	Person	#	Person	#	Person	#	Person	#	Person	#	Person	#	Person	#
Harlem							J	5					W	4				
Varick	All	2			W, H	7	M	5			W	7						
Review	All	2					W	4							J	7		
Staten Island TS									J	7	J	7	M	8				
IWS-Jersey	All	2							W	7					N	7		
Sims Metal Management-Bronx									H	6	H	3	H	10	H	4		
Sims Metal Management-Claremont					J, M	5			M	3	M	6			M	5		
VISY Paper																		
<b>Total</b>			6			12		14		23		23		22		23		

	U		M		T		W		H		F		S		U		M	
	16-Sep		17-Sep		18-Sep		19-Sep		20-Sep		21-Sep		22-Sep		23-Sep		24-Sep	
	Person	#	Person	#	Person	#	Person	#	Person	#	Person	#	Person	#	Person	#	Person	#
Harlem			W	7	J	6	W	7	W	7								
Varick	J	5			W	8	H	6	H	5					J	13	J	5
Review	W	9															W	15
Staten Island TS			J	7														
IWS-Jersey							J	1	J	2	W	14			H	2		
Sims Metal Management-Bronx	H	7	H	4	H	1	M	6									M	9
Sims Metal Management-Claremont			M	4	M	7			M	5	M	10						
VISY Paper																		
<b>Total</b>			21		22		22		20		19		24			15		29

	T		W		H		F		S	
	25-Sep		26-Sep		27-Sep		28-Sep		29-Sep	
	Person	#	Person	#	Person	#	Person	#	Person	#
Harlem			W	8						
Varick			H	1	H	4				
Review	W	9	J	2	J	2	W	7		
Staten Island TS	M	3			M	5	M	7		
IWS-Jersey	H	11								
Sims Metal Management-Bronx										
Sims Metal Management-Claremont										
VISY Paper										
<b>Total</b>			23		11		11		14	

**Codes**

- W = William Pochereva
- J = John Mulrow
- M = Marta Taggart
- H = Hilary Near
- N = Natalee Henry

**Note:**

Although the field data collection for season one started on September 10, no MGP sampling was conducted on loads collected on September 10. This was because Labor Day had been the previous Monday. DSNY does not collect Wastes on Labor Day. In the case of MGP, this means that the Monday following Labor Day is a make-up day, and MGP volumes are significantly higher than usual. DSNY therefore runs a supplemental route schedule that differs from regularly scheduled routes. Consequently, it was not possible to sample from the planned MGP routes on Sept 10. Normal MGP collection routes resumed on September 11 and remained for the duration of the season one field data collection.

**Exhibit B-2 Sampling Schedule, May 2013**

Sample Shift Date	U		M		T		W		H		F		S	
	5/5		5/6		5/7		5/8		5/9		5/10		5/11	
	Person	Samp. #	Person	Samp. #	Person	Samp. #	Person	Samp. #	Person	Samp. #	Person	Samp. #	Person	Samp. #
Harlem														
Varick														
Review														
Staten Island TS														
IWS-Jersey														
Sims Metal Management-Bronx					All	18	All	23	S	6	S	13	S	2
Sims Metal Management-Clairemont									Z	6	Z	2	Z	3
Visy Paper									J	11	J	7	J	18

Sample Shift Date	U		M		T		W		H		F		S	
	5/12		5/13		5/14		5/15		5/16		5/17		5/18	
	Person	Samp. #	Person	Samp. #	Person	Samp. #	Person	Samp. #	Person	Samp. #	Person	Samp. #	Person	Samp. #
Harlem														
Varick														
Review														
Staten Island TS														
IWS-Jersey														
Sims Metal Management-Bronx			S	10	S	16	S	6	S	19	S	0		
Sims Metal Management-Clairemont			Z	5	Z	4	Z	8	Z	1	Z	8		
Visy Paper			J	7	J	3	J	10	J	3	J	13		

Codes

- S = Stephan Moedritzer
- J = Jessica Coe
- Z = Zachary Griffin

Note: On the night of May 8-9 during the second season sort, a manual error at one of the acceptance facilities resulted in the majority of sample weights falling below the targets. The Sampling Manager at one site failed to program the scale to net out the container tare weight. The Project Team, with affirmation from DSNY, was able to salvage one sample for sorting by combining two samples that were taken from two different routes, but from the same borough, district, section and day of the week. All remaining samples were excluded from sorting. Make-up samples were subsequently selected by the Sampling Manager, and DSNY was able to accommodate the additional make-up loads for the remainder of the sort.

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
M013S1M	Saturday	9/8/12	Monday	9/10/12	Yes
M021S1M	Saturday	9/8/12	Monday	9/10/12	Yes
M042S1M	Saturday	9/8/12	Monday	9/10/12	Yes
S013S4M	Saturday	9/8/12	Monday	9/10/12	Yes
S035S3M	Saturday	9/8/12	Monday	9/10/12	Yes
K041S2R	Saturday	9/8/12	Monday	9/10/12	Yes
K042S4R	Saturday	9/8/12	Monday	9/10/12	Yes
K043S3R	Saturday	9/8/12	Monday	9/10/12	Yes
K091S1R	Saturday	9/8/12	Monday	9/10/12	Yes
K132S2R	Saturday	9/8/12	Monday	9/10/12	Yes
K171S2R	Saturday	9/8/12	Monday	9/10/12	Yes
X094M3R	Monday	9/10/12	Tuesday	9/11/12	Yes
X103M1R	Monday	9/10/12	Tuesday	9/11/12	Yes
X112M3R	Monday	9/10/12	Tuesday	9/11/12	Yes
X113M2R	Monday	9/10/12	Tuesday	9/11/12	Yes
X113M3R	Monday	9/10/12	Tuesday	9/11/12	Yes
Q011M1R	Monday	9/10/12	Tuesday	9/11/12	Yes
Q013M3R	Monday	9/10/12	Tuesday	9/11/12	Yes
Q041M2R	Monday	9/10/12	Tuesday	9/11/12	Yes
Q041M3R	Monday	9/10/12	Tuesday	9/11/12	Yes
K021M2R	Monday	9/10/12	Tuesday	9/11/12	Yes
K052M5R	Monday	9/10/12	Tuesday	9/11/12	Yes
K104M1R	Monday	9/10/12	Tuesday	9/11/12	Yes
K104M2R	Monday	9/10/12	Tuesday	9/11/12	Yes
K115M1R	Monday	9/10/12	Tuesday	9/11/12	Yes
M021T2R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
M033T1R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
M034T1R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
M041T1R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
M073T2R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
M073T3R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
M074T1R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S011T3R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S012T5R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S013T3R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S022T6R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S023T4R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S024T3R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S033T3R	Tuesday	9/11/12	Wednesday	9/12/12	Yes
M111T1M	Tuesday	9/11/12	Wednesday	9/12/12	Yes
M123T2M	Tuesday	9/11/12	Wednesday	9/12/12	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
Q055T2M	Tuesday	9/11/12	Wednesday	9/12/12	Yes
Q102T4M	Tuesday	9/11/12	Wednesday	9/12/12	Yes
Q136T2M	Tuesday	9/11/12	Wednesday	9/12/12	Yes
Q136T3M	Tuesday	9/11/12	Wednesday	9/12/12	Yes
M075T2M	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S012T4M	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S022T5M	Tuesday	9/11/12	Wednesday	9/12/12	Yes
S011W2R	Wednesday	9/12/12	Thursday	9/13/12	Yes
S014W4R	Wednesday	9/12/12	Thursday	9/13/12	Yes
S023W2R	Wednesday	9/12/12	Thursday	9/13/12	Yes
S023W4R	Wednesday	9/12/12	Thursday	9/13/12	Yes
S033W1R	Wednesday	9/12/12	Thursday	9/13/12	Yes
S035W1R	Wednesday	9/12/12	Thursday	9/13/12	Yes
S036W2R	Wednesday	9/12/12	Thursday	9/13/12	Yes
K031W1M	Wednesday	9/12/12	Thursday	9/13/12	Yes
Q021W1M	Wednesday	9/12/12	Thursday	9/13/12	Yes
Q061W3M	Wednesday	9/12/12	Thursday	9/13/12	Yes
K093W2M	Wednesday	9/12/12	Thursday	9/13/12	Yes
K144W1M	Wednesday	9/12/12	Thursday	9/13/12	Yes
K185W2M	Wednesday	9/12/12	Thursday	9/13/12	Yes
S022W6M	Wednesday	9/12/12	Thursday	9/13/12	Yes
S032W3M	Wednesday	9/12/12	Thursday	9/13/12	Yes
S032W5M	Wednesday	9/12/12	Thursday	9/13/12	Yes
K142W3R	Wednesday	9/12/12	Thursday	9/13/12	Yes
K143W3R	Wednesday	9/12/12	Thursday	9/13/12	Yes
K144W1R	Wednesday	9/12/12	Thursday	9/13/12	Yes
K151W2R	Wednesday	9/12/12	Thursday	9/13/12	Yes
K155W1R	Wednesday	9/12/12	Thursday	9/13/12	Yes
K173W1R	Wednesday	9/12/12	Thursday	9/13/12	Yes
K175W1R	Wednesday	9/12/12	Thursday	9/13/12	Yes
S011H6R	Thursday	9/13/12	Friday	9/14/12	Yes
S013H6R	Thursday	9/13/12	Friday	9/14/12	Yes
S014H1R	Thursday	9/13/12	Friday	9/14/12	Yes
S021H2R	Thursday	9/13/12	Friday	9/14/12	Yes
S021H4R	Thursday	9/13/12	Friday	9/14/12	Yes
S031H3R	Thursday	9/13/12	Friday	9/14/12	Yes
S033H2R	Thursday	9/13/12	Friday	9/14/12	Yes
S035H3R	Thursday	9/13/12	Friday	9/14/12	Yes
M082H1M	Thursday	9/13/12	Friday	9/14/12	Yes
M082H2M	Thursday	9/13/12	Friday	9/14/12	Yes
M101H1M	Thursday	9/13/12	Friday	9/14/12	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
M121H2M	Thursday	9/13/12	Friday	9/14/12	Yes
X021H2M	Thursday	9/13/12	Friday	9/14/12	Yes
X072H1M	Thursday	9/13/12	Friday	9/14/12	Yes
X072H2M	Thursday	9/13/12	Friday	9/14/12	Yes
X092H1M	Thursday	9/13/12	Friday	9/14/12	Yes
X092H2M	Thursday	9/13/12	Friday	9/14/12	Yes
X102H1M	Thursday	9/13/12	Friday	9/14/12	Yes
X011H2R	Thursday	9/13/12	Friday	9/14/12	Yes
X031H4R	Thursday	9/13/12	Friday	9/14/12	Yes
X101H1R	Thursday	9/13/12	Friday	9/14/12	Yes
X102H2R	Thursday	9/13/12	Friday	9/14/12	Yes
M013F1R	Friday	9/14/12	Saturday	9/15/12	Yes
M022F1R	Friday	9/14/12	Saturday	9/15/12	Yes
M022F2R	Friday	9/14/12	Saturday	9/15/12	Yes
M043F1R	Friday	9/14/12	Saturday	9/15/12	Yes
M051F1R	Friday	9/14/12	Saturday	9/15/12	Yes
M062F1R	Friday	9/14/12	Saturday	9/15/12	No
M072F1R	Friday	9/14/12	Saturday	9/15/12	Yes
Q031F1M	Friday	9/14/12	Saturday	9/15/12	Yes
Q032F4M	Friday	9/14/12	Saturday	9/15/12	Yes
Q041F1M	Friday	9/14/12	Saturday	9/15/12	Yes
Q142F3M	Friday	9/14/12	Saturday	9/15/12	Yes
M051F1M	Friday	9/14/12	Saturday	9/15/12	Yes
S013F1M	Friday	9/14/12	Saturday	9/15/12	Yes
S013F2M	Friday	9/14/12	Saturday	9/15/12	No
S014F1M	Friday	9/14/12	Saturday	9/15/12	Yes
S024F1M	Friday	9/14/12	Saturday	9/15/12	Yes
Q022F2R	Friday	9/14/12	Saturday	9/15/12	Yes
Q062F3R	Friday	9/14/12	Saturday	9/15/12	Yes
Q072F1R	Friday	9/14/12	Saturday	9/15/12	Yes
Q082F5R	Friday	9/14/12	Saturday	9/15/12	Yes
Q084F2R	Friday	9/14/12	Saturday	9/15/12	Yes
Q102F1R	Friday	9/14/12	Saturday	9/15/12	Yes
Q122F3R	Friday	9/14/12	Saturday	9/15/12	Yes
M084S1M	Saturday	9/15/12	Monday	9/17/12	Yes
M085S1M	Saturday	9/15/12	Monday	9/17/12	Yes
Q022S1M	Saturday	9/15/12	Monday	9/17/12	Yes
Q023S1M	Saturday	9/15/12	Monday	9/17/12	Yes
Q043S1M	Saturday	9/15/12	Monday	9/17/12	Yes
Q053S1M	Saturday	9/15/12	Monday	9/17/12	Yes
Q103S1M	Saturday	9/15/12	Monday	9/17/12	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
Q014S1R	Saturday	9/15/12	Monday	9/17/12	Yes
Q055S1R	Saturday	9/15/12	Monday	9/17/12	Yes
Q103S1R	Saturday	9/15/12	Monday	9/17/12	Yes
Q103S5R	Saturday	9/15/12	Monday	9/17/12	Yes
Q116S2R	Saturday	9/15/12	Monday	9/17/12	Yes
Q124S3R	Saturday	9/15/12	Monday	9/17/12	Yes
Q126S1R	Saturday	9/15/12	Monday	9/17/12	Yes
Q132S1R	Saturday	9/15/12	Monday	9/17/12	Yes
Q136S3R	Saturday	9/15/12	Monday	9/17/12	Yes
K051S1R	Saturday	9/15/12	Monday	9/17/12	Yes
K052S4R	Saturday	9/15/12	Monday	9/17/12	Yes
K054S5R	Saturday	9/15/12	Monday	9/17/12	Yes
K072S2R	Saturday	9/15/12	Monday	9/17/12	Yes
K111S1R	Saturday	9/15/12	Monday	9/17/12	Yes
S012M1R	Monday	9/17/12	Tuesday	9/18/12	Yes
S021M1R	Monday	9/17/12	Tuesday	9/18/12	Yes
S023M5R	Monday	9/17/12	Tuesday	9/18/12	Yes
S024M1R	Monday	9/17/12	Tuesday	9/18/12	Yes
S024M9R	Monday	9/17/12	Tuesday	9/18/12	Yes
S034M1R	Monday	9/17/12	Tuesday	9/18/12	Yes
S037M3R	Monday	9/17/12	Tuesday	9/18/12	Yes
X053M2M	Monday	9/17/12	Tuesday	9/18/12	Yes
X073M2M	Monday	9/17/12	Tuesday	9/18/12	Yes
X091M2M	Monday	9/17/12	Tuesday	9/18/12	Yes
X121M2M	Monday	9/17/12	Tuesday	9/18/12	Yes
M075M2M	Monday	9/17/12	Tuesday	9/18/12	Yes
S011M5M	Monday	9/17/12	Tuesday	9/18/12	Yes
S012M3M	Monday	9/17/12	Tuesday	9/18/12	Yes
S021M4M	Monday	9/17/12	Tuesday	9/18/12	Yes
X021M1R	Monday	9/17/12	Tuesday	9/18/12	Yes
X043M2R	Monday	9/17/12	Tuesday	9/18/12	Yes
X043M3R	Monday	9/17/12	Tuesday	9/18/12	Yes
X053M2R	Monday	9/17/12	Tuesday	9/18/12	Yes
X092M1R	Monday	9/17/12	Tuesday	9/18/12	Yes
X092M2R	Monday	9/17/12	Tuesday	9/18/12	Yes
X123M2R	Monday	9/17/12	Tuesday	9/18/12	Yes
K011T1M	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K081T1M	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K101T1M	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K122T1M	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K152T2M	Tuesday	9/18/12	Wednesday	9/19/12	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
K185T1M	Tuesday	9/18/12	Wednesday	9/19/12	Yes
S022T1M	Tuesday	9/18/12	Wednesday	9/19/12	Yes
S033T4M	Tuesday	9/18/12	Wednesday	9/19/12	Yes
X041T4R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
X061T3R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
X061T4R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
X094T2R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
X101T2R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
X122T3R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K013T5R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K014T1R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K061T1R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K102T1R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K131T1R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K174T2R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K175T2R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
K187T3R	Tuesday	9/18/12	Wednesday	9/19/12	Yes
M022W1R	Wednesday	9/19/12	Thursday	9/20/12	Yes
K012W1M	Wednesday	9/19/12	Thursday	9/20/12	Yes
K031W2M	Wednesday	9/19/12	Thursday	9/20/12	Yes
X052W1M	Wednesday	9/19/12	Thursday	9/20/12	Yes
X052W2M	Wednesday	9/19/12	Thursday	9/20/12	Yes
X082W2M	Wednesday	9/19/12	Thursday	9/20/12	Yes
X092W1M	Wednesday	9/19/12	Thursday	9/20/12	Yes
X012W1R	Wednesday	9/19/12	Thursday	9/20/12	Yes
X012W2R	Wednesday	9/19/12	Thursday	9/20/12	Yes
X051W1R	Wednesday	9/19/12	Thursday	9/20/12	Yes
X062W2R	Wednesday	9/19/12	Thursday	9/20/12	Yes
X062W3R	Wednesday	9/19/12	Thursday	9/20/12	Yes
X083W3R	Wednesday	9/19/12	Thursday	9/20/12	Yes
X125W2R	Wednesday	9/19/12	Thursday	9/20/12	Yes
K162W4R	Wednesday	9/19/12	Thursday	9/20/12	Yes
K181W2R	Wednesday	9/19/12	Thursday	9/20/12	Yes
K184W1R	Wednesday	9/19/12	Thursday	9/20/12	Yes
K185W1R	Wednesday	9/19/12	Thursday	9/20/12	Yes
K186W3R	Wednesday	9/19/12	Thursday	9/20/12	Yes
K186W4R	Wednesday	9/19/12	Thursday	9/20/12	Yes
M051H2R	Thursday	9/20/12	Friday	9/21/12	Yes
M062H1R	Thursday	9/20/12	Friday	9/21/12	Yes
M043H2M	Thursday	9/20/12	Friday	9/21/12	Yes
M061H1M	Thursday	9/20/12	Friday	9/21/12	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
M062H1M	Thursday	9/20/12	Friday	9/21/12	Yes
M074H1M	Thursday	9/20/12	Friday	9/21/12	Yes
M074H2M	Thursday	9/20/12	Friday	9/21/12	Yes
X012H2R	Thursday	9/20/12	Friday	9/21/12	Yes
X052H1R	Thursday	9/20/12	Friday	9/21/12	Yes
X061H2R	Thursday	9/20/12	Friday	9/21/12	Yes
X061H6R	Thursday	9/20/12	Friday	9/21/12	Yes
X082H1R	Thursday	9/20/12	Friday	9/21/12	Yes
X083H3R	Thursday	9/20/12	Friday	9/21/12	Yes
X122H1R	Thursday	9/20/12	Friday	9/21/12	Yes
K023H2R	Thursday	9/20/12	Friday	9/21/12	Yes
K042H1R	Thursday	9/20/12	Friday	9/21/12	Yes
K091H2R	Thursday	9/20/12	Friday	9/21/12	Yes
K092H3R	Thursday	9/20/12	Friday	9/21/12	Yes
K124H3R	Thursday	9/20/12	Friday	9/21/12	Yes
M072F3R	Friday	9/21/12	Saturday	9/22/12	Yes
M082F4R	Friday	9/21/12	Saturday	9/22/12	Yes
M083F1R	Friday	9/21/12	Saturday	9/22/12	Yes
M083F3R	Friday	9/21/12	Saturday	9/22/12	Yes
M085F1R	Friday	9/21/12	Saturday	9/22/12	Yes
M085F2R	Friday	9/21/12	Saturday	9/22/12	Yes
M091F2R	Friday	9/21/12	Saturday	9/22/12	Yes
M093F2R	Friday	9/21/12	Saturday	9/22/12	Yes
M101F2R	Friday	9/21/12	Saturday	9/22/12	Yes
M111F4R	Friday	9/21/12	Saturday	9/22/12	Yes
M121F3R	Friday	9/21/12	Saturday	9/22/12	Yes
M122F1R	Friday	9/21/12	Saturday	9/22/12	Yes
M123F1R	Friday	9/21/12	Saturday	9/22/12	Yes
M124F4R	Friday	9/21/12	Saturday	9/22/12	Yes
K023F1M	Friday	9/21/12	Saturday	9/22/12	Yes
K073F1M	Friday	9/21/12	Saturday	9/22/12	Yes
K074F2M	Friday	9/21/12	Saturday	9/22/12	Yes
K091F1M	Friday	9/21/12	Saturday	9/22/12	Yes
K092F1M	Friday	9/21/12	Saturday	9/22/12	Yes
K121F1M	Friday	9/21/12	Saturday	9/22/12	Yes
K141F2M	Friday	9/21/12	Saturday	9/22/12	No
S034F2M	Friday	9/21/12	Saturday	9/22/12	Yes
S035F2M	Friday	9/21/12	Saturday	9/22/12	Yes
S038F1M	Friday	9/21/12	Saturday	9/22/12	Yes
M021S2R	Saturday	9/22/12	Monday	9/24/12	Yes
M071S2R	Saturday	9/22/12	Monday	9/24/12	Yes



**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
K011S2R	Saturday	9/22/12	Monday	9/24/12	Yes
K012S3R	Saturday	9/22/12	Monday	9/24/12	Yes
K014S2R	Saturday	9/22/12	Monday	9/24/12	Yes
K015S3R	Saturday	9/22/12	Monday	9/24/12	Yes
K022S1R	Saturday	9/22/12	Monday	9/24/12	Yes
K031S3R	Saturday	9/22/12	Monday	9/24/12	Yes
K034S1R	Saturday	9/22/12	Monday	9/24/12	Yes
K035S2R	Saturday	9/22/12	Monday	9/24/12	Yes
K113S3R	Saturday	9/22/12	Monday	9/24/12	Yes
K121S2R	Saturday	9/22/12	Monday	9/24/12	Yes
K122S3R	Saturday	9/22/12	Monday	9/24/12	Yes
K172S1R	Saturday	9/22/12	Monday	9/24/12	Yes
K175S1R	Saturday	9/22/12	Monday	9/24/12	Yes
K184S3R	Saturday	9/22/12	Monday	9/24/12	Yes
K186S4R	Saturday	9/22/12	Monday	9/24/12	Yes
Q013M1M	Monday	9/24/12	Tuesday	9/25/12	Yes
Q078M1M	Monday	9/24/12	Tuesday	9/25/12	Yes
Q082M1M	Monday	9/24/12	Tuesday	9/25/12	Yes
Q111M1M	Monday	9/24/12	Tuesday	9/25/12	Yes
X043M1M	Monday	9/24/12	Tuesday	9/25/12	Yes
X111M2M	Monday	9/24/12	Tuesday	9/25/12	Yes
X121M1M	Monday	9/24/12	Tuesday	9/25/12	Yes
X122M1M	Monday	9/24/12	Tuesday	9/25/12	Yes
X123M1M	Monday	9/24/12	Tuesday	9/25/12	Yes
Q013M4R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q021M3R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q031M7R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q074M2R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q082M6R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q083M2R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q084M4R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q094M2R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q113M1R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q114M2R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q122M3R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q125M3R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q127M3R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q133M5R	Monday	9/24/12	Tuesday	9/25/12	Yes
Q134M2R	Monday	9/24/12	Tuesday	9/25/12	Yes
K022M3R	Monday	9/24/12	Tuesday	9/25/12	Yes
K041M1R	Monday	9/24/12	Tuesday	9/25/12	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
K061M2R	Monday	9/24/12	Tuesday	9/25/12	Yes
K081M5R	Monday	9/24/12	Tuesday	9/25/12	Yes
K111M3R	Monday	9/24/12	Tuesday	9/25/12	Yes
M061T3R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M081T1R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M082T3R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M083T6R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M084T2R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M091T1R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M101T1R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M113T2R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M121T4R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M122T2R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
M124T1R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
S014T2R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
S035T1R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
S036T1R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
Q082T3R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
Q084T1R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
Q084T3R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
Q101T1R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
Q103T4R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
Q104T4R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
Q125T2R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
Q134T1R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
Q136T4R	Tuesday	9/25/12	Wednesday	9/26/12	Yes
X051W3R	Wednesday	9/26/12	Thursday	9/27/12	Yes
X072W2R	Wednesday	9/26/12	Thursday	9/27/12	Yes
X082W2R	Wednesday	9/26/12	Thursday	9/27/12	Yes
X091W2R	Wednesday	9/26/12	Thursday	9/27/12	Yes
X091W3R	Wednesday	9/26/12	Thursday	9/27/12	Yes
X091W4R	Wednesday	9/26/12	Thursday	9/27/12	Yes
X092W1R	Wednesday	9/26/12	Thursday	9/27/12	Yes
X092W2R	Wednesday	9/26/12	Thursday	9/27/12	Yes
Q073W3R	Wednesday	9/26/12	Thursday	9/27/12	Yes
Q141W2R	Wednesday	9/26/12	Thursday	9/27/12	Yes
K051W6R	Wednesday	9/26/12	Thursday	9/27/12	Yes
S013H2R	Thursday	9/27/12	Friday	9/28/12	Yes
S014H3R	Thursday	9/27/12	Friday	9/28/12	Yes
S023H1R	Thursday	9/27/12	Friday	9/28/12	Yes
S024H8R	Thursday	9/27/12	Friday	9/28/12	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
S033H3R	Thursday	9/27/12	Friday	9/28/12	Yes
Q031H5R	Thursday	9/27/12	Friday	9/28/12	Yes
Q077H1R	Thursday	9/27/12	Friday	9/28/12	Yes
Q091H1R	Thursday	9/27/12	Friday	9/28/12	Yes
Q134H3R	Thursday	9/27/12	Friday	9/28/12	Yes
K074H1R	Thursday	9/27/12	Friday	9/28/12	Yes
K111H2R	Thursday	9/27/12	Friday	9/28/12	Yes
K113H1R	Thursday	9/27/12	Friday	9/28/12	Yes
K116H2R	Thursday	9/27/12	Friday	9/28/12	Yes
K123H3R	Thursday	9/27/12	Friday	9/28/12	Yes
S012F3R	Friday	9/28/12	Saturday	9/29/12	Yes
S014F2R	Friday	9/28/12	Saturday	9/29/12	Yes
S023F2R	Friday	9/28/12	Saturday	9/29/12	Yes
S023F3R	Friday	9/28/12	Saturday	9/29/12	Yes
S033F3R	Friday	9/28/12	Saturday	9/29/12	Yes
S038F1R	Friday	9/28/12	Saturday	9/29/12	Yes
S038F2R	Friday	9/28/12	Saturday	9/29/12	Yes
Q126F4R	Friday	9/28/12	Saturday	9/29/12	Yes
Q132F2R	Friday	9/28/12	Saturday	9/29/12	Yes
Q132F4R	Friday	9/28/12	Saturday	9/29/12	Yes
Q136F2R	Friday	9/28/12	Saturday	9/29/12	Yes
Q138F3R	Friday	9/28/12	Saturday	9/29/12	Yes
Q143F2R	Friday	9/28/12	Saturday	9/29/12	Yes
Q143F3R	Friday	9/28/12	Saturday	9/29/12	Yes
K011M1M	Monday	5/6/13	Tuesday	5/7/13	Yes
K052M2M	Monday	5/6/13	Tuesday	5/7/13	Yes
Q094M1M	Monday	5/6/13	Tuesday	5/7/13	Yes
Q094M1P	Monday	5/6/13	Tuesday	5/7/13	Yes
Q111M1P	Monday	5/6/13	Tuesday	5/7/13	Yes
Q136M1M	Monday	5/6/13	Tuesday	5/7/13	Yes
Q136M1P	Monday	5/6/13	Tuesday	5/7/13	Yes
X011M1M	Monday	5/6/13	Tuesday	5/7/13	Yes
X053M1P	Monday	5/6/13	Tuesday	5/7/13	Yes
X073M1M	Monday	5/6/13	Tuesday	5/7/13	Yes
X073M1P	Monday	5/6/13	Tuesday	5/7/13	Yes
X081M1M	Monday	5/6/13	Tuesday	5/7/13	Yes
X101M1M	Monday	5/6/13	Tuesday	5/7/13	Yes
X101M2M	Monday	5/6/13	Tuesday	5/7/13	Yes
X111M1M	Monday	5/6/13	Tuesday	5/7/13	Yes
X111M1P	Monday	5/6/13	Tuesday	5/7/13	Yes
X111M2P	Monday	5/6/13	Tuesday	5/7/13	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
X122M1P	Monday	5/6/13	Tuesday	5/7/13	Yes
K011T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
K051T1M	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q033T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q042T1P	Tuesday	5/7/13	Wednesday	5/8/13	No
Q055T2P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q101T1M	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q101T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q121T1M	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q121T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q125T1M	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q125T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q136T2P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
Q138T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X012T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X041T1M	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X043T1M	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X052T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X082T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X091T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X101T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X111T1M	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X122T1P	Tuesday	5/7/13	Wednesday	5/8/13	Yes
X123T1M	Tuesday	5/7/13	Wednesday	5/8/13	No
K012W1P	Wednesday	5/8/13	Thursday	5/9/13	Yes
K065W2P	Wednesday	5/8/13	Thursday	5/9/13	No
K112W1P	Wednesday	5/8/13	Thursday	5/9/13	Yes
K113W1M	Wednesday	5/8/13	Thursday	5/9/13	Yes
K113W1P	Wednesday	5/8/13	Thursday	5/9/13	No
K131W1M	Wednesday	5/8/13	Thursday	5/9/13	Yes
K131W1P	Wednesday	5/8/13	Thursday	5/9/13	No
K152W2M	Wednesday	5/8/13	Thursday	5/9/13	Yes
K152W2P	Wednesday	5/8/13	Thursday	5/9/13	Yes
K153W2P	Wednesday	5/8/13	Thursday	5/9/13	No
K173W1M	Wednesday	5/8/13	Thursday	5/9/13	Yes
K173W1P	Wednesday	5/8/13	Thursday	5/9/13	No
K187W1M	Wednesday	5/8/13	Thursday	5/9/13	Yes
K187W1P	Wednesday	5/8/13	Thursday	5/9/13	Yes
S012W1M	Wednesday	5/8/13	Thursday	5/9/13	Yes
S012W2P	Wednesday	5/8/13	Thursday	5/9/13	No
S021W1P	Wednesday	5/8/13	Thursday	5/9/13	No

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
S033W1P	Wednesday	5/8/13	Thursday	5/9/13	No
X031W1M	Wednesday	5/8/13	Thursday	5/9/13	Yes
X062W1P	Wednesday	5/8/13	Thursday	5/9/13	Yes
X102W1M	Wednesday	5/8/13	Thursday	5/9/13	Yes
X111W1M	Wednesday	5/8/13	Thursday	5/9/13	Yes
X121W1M	Wednesday	5/8/13	Thursday	5/9/13	Yes
M023H2P	Thursday	5/9/13	Friday	5/10/13	Yes
M052H1M	Thursday	5/9/13	Friday	5/10/13	Yes
M062H1P	Thursday	5/9/13	Friday	5/10/13	Yes
M062H2M	Thursday	5/9/13	Friday	5/10/13	Yes
M074H2P	Thursday	5/9/13	Friday	5/10/13	Yes
M092H1P	Thursday	5/9/13	Friday	5/10/13	Yes
M122H1M	Thursday	5/9/13	Friday	5/10/13	Yes
M122H1P	Thursday	5/9/13	Friday	5/10/13	Yes
M122H2M	Thursday	5/9/13	Friday	5/10/13	Yes
S014H1P	Thursday	5/9/13	Friday	5/10/13	Yes
S035H2P	Thursday	5/9/13	Friday	5/10/13	Yes
X021H1P	Thursday	5/9/13	Friday	5/10/13	Yes
X083H1M	Thursday	5/9/13	Friday	5/10/13	Yes
X083H1P	Thursday	5/9/13	Friday	5/10/13	Yes
X094H1P	Thursday	5/9/13	Friday	5/10/13	Yes
X102H1P	Thursday	5/9/13	Friday	5/10/13	Yes
X103H1P	Thursday	5/9/13	Friday	5/10/13	Yes
X113H1M	Thursday	5/9/13	Friday	5/10/13	Yes
X113H1P	Thursday	5/9/13	Friday	5/10/13	Yes
X124H2M	Thursday	5/9/13	Friday	5/10/13	Yes
X125H1M	Thursday	5/9/13	Friday	5/10/13	Yes
X125H2P	Thursday	5/9/13	Friday	5/10/13	Yes
K014F1M	Friday	5/10/13	Saturday	5/11/13	Yes
K042F1M	Friday	5/10/13	Saturday	5/11/13	Yes
K083F1P	Friday	5/10/13	Saturday	5/16/13	Yes
K092F1P	Friday	5/10/13	Saturday	5/11/13	Yes
K116F1P	Friday	5/10/13	Saturday	5/11/13	Yes
K121F1P	Friday	5/10/13	Saturday	5/11/13	Yes
K132F2P	Friday	5/10/13	Saturday	5/11/13	Yes
K141F1P	Friday	5/10/13	Saturday	5/11/13	Yes
K162F1P	Friday	5/10/13	Saturday	5/11/13	Yes
M011F1M	Friday	5/10/13	Saturday	5/11/13	Yes
M011F2M	Friday	5/10/13	Saturday	5/11/13	Yes
M011F3P	Friday	5/10/13	Saturday	5/11/13	Yes
S013F1P	Friday	5/10/13	Saturday	5/11/13	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
S013F2P	Friday	5/10/13	Saturday	5/11/13	Yes
S014F1P	Friday	5/10/13	Saturday	5/11/13	Yes
S014F3P	Friday	5/10/13	Saturday	5/11/13	Yes
S023F1P	Friday	5/10/13	Saturday	5/11/13	Yes
S024F1P	Friday	5/10/13	Saturday	5/11/13	Yes
S024F2P	Friday	5/10/13	Saturday	5/11/13	Yes
S034F1P	Friday	5/10/13	Saturday	5/11/13	Yes
S035F1M	Friday	5/10/13	Saturday	5/11/13	Yes
S035F1P	Friday	5/10/13	Saturday	5/11/13	Yes
S038F1P	Friday	5/10/13	Saturday	5/11/13	Yes
M021S1P	Saturday	5/11/13	Monday	5/13/13	Yes
M084S3P	Saturday	5/11/13	Monday	5/13/13	Yes
M085S2M	Saturday	5/11/13	Monday	5/13/13	Yes
M085S2P	Saturday	5/11/13	Monday	5/13/13	Yes
M085S3M	Saturday	5/11/13	Monday	5/13/13	Yes
M091S1P	Saturday	5/11/13	Monday	5/13/13	Yes
M124S2M	Saturday	5/11/13	Monday	5/13/13	Yes
M124S2P	Saturday	5/11/13	Monday	5/13/13	Yes
Q053S1P	Saturday	5/11/13	Monday	5/13/13	Yes
Q071S1M	Saturday	5/11/13	Monday	5/13/13	Yes
Q091S1P	Saturday	5/11/13	Monday	5/13/13	Yes
Q103S1P	Saturday	5/11/13	Monday	5/13/13	Yes
Q123S1M	Saturday	5/11/13	Monday	5/13/13	Yes
Q123S1P	Saturday	5/11/13	Monday	5/13/13	Yes
Q127S1P	Saturday	5/11/13	Monday	5/13/13	Yes
S013S2M	Saturday	5/11/13	Monday	5/13/13	Yes
S014S1M	Saturday	5/11/13	Monday	5/13/13	Yes
S014S1P	Saturday	5/11/13	Monday	5/13/13	Yes
S023S1M	Saturday	5/11/13	Monday	5/13/13	Yes
S023S2M	Saturday	5/11/13	Monday	5/13/13	Yes
S024S1M	Saturday	5/11/13	Monday	5/13/13	Yes
S034S1P	Saturday	5/11/13	Monday	5/13/13	Yes
M023M1M	Monday	5/13/13	Tuesday	5/14/13	Yes
M023M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
Q013M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
Q021M1M	Monday	5/13/13	Tuesday	5/14/13	Yes
Q042M2P	Monday	5/13/13	Tuesday	5/14/13	Yes
Q054M1M	Monday	5/13/13	Tuesday	5/14/13	Yes
Q054M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
Q075M1M	Monday	5/13/13	Tuesday	5/14/13	Yes
Q075M1P	Monday	5/13/13	Tuesday	5/14/13	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
Q078M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
Q081M1M	Monday	5/13/13	Tuesday	5/14/13	Yes
Q081M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
Q082M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
Q093M1M	Monday	5/13/13	Tuesday	5/14/13	Yes
Q093M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
Q102M1M	Monday	5/13/13	Tuesday	5/14/13	Yes
Q102M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
Q102M2P	Monday	5/13/13	Tuesday	5/14/13	Yes
S021M2M	Monday	5/13/13	Tuesday	5/14/13	Yes
S021M2P	Monday	5/13/13	Tuesday	5/14/13	Yes
S022M1M	Monday	5/13/13	Tuesday	5/14/13	Yes
S022M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
S022M2P	Monday	5/13/13	Tuesday	5/14/13	Yes
S031M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
S032M1M	Monday	5/13/13	Tuesday	5/14/13	Yes
S032M1P	Monday	5/13/13	Tuesday	5/14/13	Yes
K032T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K041T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K052T1M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K052T2M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K065T1M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K081T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K081T2P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K081T3P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K083T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K093T1M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K101T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K122T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K131T1M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K132T1M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K132T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K152T1M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K152T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K152T2P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
K186T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
M051T1M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
M083T2M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
M103T1M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
S012T1P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
S012T2M	Tuesday	5/14/13	Wednesday	5/15/13	Yes

**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
S031T2P	Tuesday	5/14/13	Wednesday	5/15/13	Yes
S032T2M	Tuesday	5/14/13	Wednesday	5/15/13	Yes
M022W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
M022W2P	Wednesday	5/15/13	Thursday	5/16/13	Yes
M034W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
M085W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
M092W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
M103W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
M122W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q013W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q013W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q015W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q021W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q031W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q033W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q072W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q093W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q093W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q111W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q111W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q114W1M	Wednesday	5/15/13	Thursday	5/16/13	Yes
Q114W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
X031W2P	Wednesday	5/15/13	Thursday	5/16/13	Yes
X072W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
X082W1P	Wednesday	5/15/13	Thursday	5/16/13	Yes
K024H1P	Thursday	5/16/13	Friday	5/17/13	Yes
K063H1M	Thursday	5/16/13	Friday	5/17/13	Yes
K174H1P	Thursday	5/16/13	Friday	5/17/13	Yes
K175H1P	Thursday	5/16/13	Friday	5/17/13	Yes
K175H2P	Thursday	5/16/13	Friday	5/17/13	Yes
M011H1P	Thursday	5/16/13	Friday	5/17/13	Yes
M023H1P	Thursday	5/16/13	Friday	5/17/13	Yes
M034H1P	Thursday	5/16/13	Friday	5/17/13	Yes
M043H1P	Thursday	5/16/13	Friday	5/17/13	Yes
M061H1P	Thursday	5/16/13	Friday	5/17/13	Yes
M062H3P	Thursday	5/16/13	Friday	5/17/13	Yes
M062H4P	Thursday	5/16/13	Friday	5/17/13	Yes
M073H1M	Thursday	5/16/13	Friday	5/17/13	Yes
M073H1P	Thursday	5/16/13	Friday	5/17/13	Yes
M081H3P	Thursday	5/16/13	Friday	5/17/13	Yes
M082H3P	Thursday	5/16/13	Friday	5/17/13	Yes



**Exhibit B-3 Sampling Schedule and Acquisition Summary**

<b>Study Route</b>	<b>DSNY Collection Day</b>	<b>DSNY Collection Date</b>	<b>Sampling Day</b>	<b>Sampling Date</b>	<b>Collected</b>
M101H1P	Thursday	5/16/13	Friday	5/17/13	Yes
S014H2M	Thursday	5/16/13	Friday	5/17/13	Yes
S014H3M	Thursday	5/16/13	Friday	5/17/13	Yes
S023H3M	Thursday	5/16/13	Friday	5/17/13	Yes
S024H2M	Thursday	5/16/13	Friday	5/17/13	Yes
S024H3M	Thursday	5/16/13	Friday	5/17/13	Yes
S024H3P	Thursday	5/16/13	Friday	5/17/13	Yes
S036H1M	Thursday	5/16/13	Friday	5/17/13	Yes

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**APPENDIX C**  
**MATERIAL CATEGORIES AND DEFINITIONS**

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Exhibit C-1  
 NYC 2013 Waste Characterization Study  
 Material Categories as Presented in Summary Tables - Final

Group	Category	Description	Mapping to Sort Categories
Paper	NEWSPAPER	Printed ground wood newsprint (Advertising "slicks" (glossy paper), if found mixed with newspaper; otherwise, ad slicks are included with mixed low grade.)	1
Paper	PLAIN OCC/KRAFT PAPER	Old unwaxed/uncoated corrugated container boxes, and Kraft paper including paper bags	2
Paper	HIGH GRADE PAPER	White and lightly colored bond, rag, or stationery grade paper. This includes white or lightly colored sulfite/sulfate bond, copy papers, notebook paper, envelopes, Continuous-feed sulfite/sulfate computer printouts and forms of all types, excluding carbonless copy paper	3
Paper	MIXED LOW GRADE PAPER	Includes junk mail, magazines, advertising "slicks" (glossy paper) not mixed with newspaper, colored papers, bleached Kraft including bags, boxboard, mailing tubes, carbonless copy paper, ground wood computer printouts, telephone directories, paperback books, hardcover books	4
Paper	COMPOSTABLE/SOILED PAPER/WAXED OCC/KRAFT	Waxed papers and cardboards, other papers that were soiled with food during use (e.g., pizza box inserts); paper towels, wipes and napkins; paper plates, platters, cups, and bowls	5
Paper	OTHER NONRECYCLABLE PAPER	Coated paper frozen food and ice cream containers/packaging and other polycoated papers (excluding polycoated beverage cartons and aseptic packaging); paper with other materials attached (e.g. juice concentrate cans, and spiral notebooks), and other non-recyclable papers such as carbon copy paper, label backing, and photographs, gypsum board tape rolls.	6
Beverage Cartons	BEVERAGE CARTONS AND ASEPTIC BOXES	Beverage and food containers made of bleached and unbleached paperboard coated with HDPE film. This includes polycoated milk, juice and soup containers, and aseptic juice and soup boxes, including those with plastic spouts attached. Excludes juice concentrate cans.	7
Plastic	#1 PET BOTTLES AND JARS	#1 Polyethylene terephthalate translucent or colored (green, blue, red, amber, yellow, orange and opaque) narrow neck bottles and jars.	8 & 9
Plastic	#2 HDPE NATURAL BOTTLES	High-density translucent polyethylene (#2) bottles. Milk, juice, beverage, vinegar, distilled water bottles and jars with necks.	10
Plastic	#2 HDPE PIGMENTED BOTTLES	High-density colored (including opaque white) polyethylene (#2) bottles. Liquid detergent bottles, some hair care bottles and jars with necks. Includes empty motor oil bottles. (Chemical bottles that still contain product are sorted according to that material-for instance, pesticides.)	11
Plastic	OTHER PLASTIC BOTTLES	All other bottles and jars with necks labeled with resin codes other than #1 and #2, bioplastic, dual-labeled (marked with two resin codes), other labeled, or unlabeled. Includes empty bottles that once held motor oil or other HHW. (Chemical bottles that still contain product are sorted according to the product).	12
Plastic	RIGID PLASTIC CONTAINERS/PACKAGING	All non-bottle rigid plastic containers and packaging made of any resin. Thermoform molded trays, clamshells, and other packaging, typically used for food items and made out of #1 PET. White plumbing pipe, identifiable PVC packaging other than PVC bottles/tubs. Injection molded (predominantly #2 & #5 plastic resin) wide mouth containers without a neck, such as cottage cheese and margarine tubs, of any resin type. Includes lids to the tubs and plastic bottle caps, pill bottles, #6 rigid polystyrene containers and packaging. Also clear trays, clamshells, and cases, salad green containers, cookie tray inserts, yogurt, butter and sour cream containers, CD cases. Includes containers and packaging not classified elsewhere, including containers of all types, clamshells, trays, protective packaging, stand-up toothpaste tubes, and plastic spools. Includes empty tubes of toothpaste, lotion, conditioner, body wash and caulk.	13-16 & 18

Group	Category	Description	Mapping to Sort Categories
Plastic	#6 EXPANDED POLYSTYRENE	#6 expanded polystyrene (EPS) packaging and finished products. Includes EPS trays used for packaging and shelf display of meats and groceries. Includes Styrofoam plates, cups, bowls and platters, which are Single Use Plates, Cups, and Cutlery.	17 & Part of 24
Plastic	FILM: RETAIL BAGS & SLEEVES	Plastic bags given to customers by any retail establishment for transporting purchased goods. Includes labeled grocery and merchandise bags, dry cleaner bags, and newspaper sheath bags. Excludes garbage bags, baggies or Ziploc bags; or bags heavily soiled with food.	19
Plastic	FILM: GARBAGE BAGS	Plastic bags designed and marketed to contain garbage, recycling, or other materials for disposal.	20
Plastic	FILM PLASTIC: FOOD/DRINK POUCHES	Drink pouches made of multi-layer film plastic and including foil.	21
Plastic	FILM PLASTIC: ALL OTHER FILM	Other film bags not elsewhere classified and other plastic film products. Film that is heavily contaminated with food, liquid or grit during use (including baggies, Ziploc bags and plastic wraps); is woven together (e.g., grain bags); contains multiple layers of film or other materials that have been fused together (e.g., potato chip bags).	22 - 23
Plastic	SINGLE-USE PLATES, CUPS, CUTLERY (EXCLUDING EPS)	Plastic single use spoons, forks, knives, plates, cups, cup lids, bowls, straws, and platters of various resins. Excludes expanded polystyrene (EPS).	Part of 24
Plastic	APPLIANCES: PLASTIC	Small and large electric appliances made predominantly (> 50%) of plastic.	25
Plastic	BULKS/RIGID PLASTIC	Bulky rigid plastic items larger in size than a breadbox. Includes plastic furniture, tools, toys, plastic crates and soda bottle carriers. Includes 5-gal buckets and large planters. Excludes plastic appliances.	26 - 28
Plastic	OTHER PLASTICS MATERIALS NOT ELSEWHERE CLASSIFIED	Plastic items made entirely of plastic or predominantly of plastic not elsewhere classified. As a rule of thumb, smaller in size than a breadbox. Includes pens and markers, lighters, 3-ring binders, small toys and housewares, toothbrushes, razors, dental floss containers, CD/DVDs, VHS tapes.	29
Glass	CLEAR CONTAINER GLASS	Manually sortable, recyclable clear glass bottles and jars that are greater than 2" x 2"	30
Glass	GREEN CONTAINER GLASS	Manually sortable, recyclable green glass bottles and jars that are greater than 2" x 2"	31
Glass	BROWN CONTAINER GLASS	Manually sortable, recyclable brown glass bottles and jars that are greater than 2" x 2"	32
Glass	OTHER COLOR CONTAINER GLASS	Manually sortable, recyclable blue, yellow, red and other color glass bottles and jars that are greater than 2" x 2"	33
Glass	MIXED CULLET	Broken glass of any color not manually sortable (under 2" x 2"); glass shards	34
Glass	OTHER GLASS	Window glass, mirrors, light bulbs (except fluorescent tubes), decorative glassware (e.g. vases), decorative glass bottles (e.g. perfume bottles), drinking glasses, other noncontainer glass.	35
Metal	ALUMINUM CANS	Aluminum beverage and food cans and bi-metal cans made mostly of aluminum.	36
Metal	ALUMINUM	Aluminum food containers, trays, and foil.	37
Metal	OTHER ALUMINUM	Aluminum products and scrap that are 50% or more aluminum by weight, such as window frames, cookware.	38
Metal	OTHER NONFERROUS	Non-aluminum metals not derived from iron, to which a magnet will not adhere, and which are not significantly contaminated with other metals or materials. Includes copper, brass, lead, stainless steel, zinc.	39
Metal	STEEL/TIN FOOD CANS	Steel food containers, including bi-metal cans mostly of steel. Includes removed steel lids.	40

<b>Group</b>	<b>Category</b>	<b>Description</b>	<b>Mapping to Sort Categories</b>
Metal	EMPTY AEROSOL CANS	Empty, mixed material/metal aerosol cans. (Aerosols that still contain product are sorted according to that material-for instance, solvent-based paint.)	41
Metal	OTHER FERROUS	Ferrous and alloyed ferrous scrap metals to which a magnet adheres and which are not significantly contaminated with other metals or materials. Includes ferrous metal caps/lids to containers of other	42
Metal	MIXED METALS	Items that are predominately metal with other materials attached such as motors, insulated wire, and finished products containing a mixture of metals, or metals and other materials, that are not classified in the "small appliances" section below. Includes pieces of white goods. Included certain non-computer insulated wiring such as holiday light strands if the wiring is half or more of the weight.	43
Metal	APPLIANCES: FERROUS	Large and small electric appliances made predominantly of ferrous metal (steel). Includes large appliances such as washers, dryers, stoves, refrigerators, dishwashers, etc. Includes small appliances such as toasters, microwave ovens, power tools, curling irons, and light fixtures.	44
Metal	APPLIANCES: NON-FERROUS	Large and small electric appliances made predominantly of non-ferrous metal (stainless steel).	45
Organic	YARD WASTE	Any plant materials from a yard or garden area. Includes grass clippings, leaves, weeds, garden wastes, prunings, trimmings, limbs, stumps, etc. Also includes cut flowers and house plants.	46
Organic	FOOD	Vegetative and non-vegetative food wastes and scraps. Includes vegetative food wastes such as vegetables and fruit as well as dairy, meat, bones, shells, husks, rinds, and prepared foods etc. Also includes vitamins and supplements. Excludes food containers, except when container weight is not appreciable compared to the food inside and separation is not practical.	47
Organic	NON-C&D WOOD	Wood products not associated with C&D activities. Includes furniture, popsicle sticks, chopsticks, wooden spoons, and other miscellaneous household wood products. Also includes clean, stained, painted and composite woods, wicker, and box springs.	48
Organic	TEXTILES: NON-CLOTHING	Non-clothing fabrics made of rag stock fabric materials of natural or synthetic textiles, such as cotton, wool, silk, woven nylon, rayon, and polyester. Includes handbags, linens, draperies, tablecloths, nylon rope.	49
Organic	TEXTILES: CLOTHING	All clothing textiles. Includes cloth diapers and fabrics made of natural or synthetic textiles, such as cotton, wool, silk, woven nylon, rayon, and polyester.	50
Organic	CARPET/UPHOLSTERY	General category of flooring applications and non-rag stock textiles consisting of various natural or synthetic fibers bonded to some type of backing material. Includes mattresses and cushions made only of urethane foam with upholstered exterior.	51
Organic	DISPOSABLE DIAPERS & SANITARY PRODUCTS	Diapers and sanitary products made from a combination of natural and/or synthetic fibers, and made for the purpose of single use. This includes disposable baby diapers, adult protective undergarments, and feminine hygiene products.	52
Organic	ANIMAL BY-PRODUCTS	Animal carcasses not resulting from food storage or preparation. Also includes animal wastes, and kitty litter.	53
Organic	SHOES/ RUBBER/ LEATHER	Finished products and scrap materials made of leather, and natural and synthetic rubber. Includes leather jackets, belts, bags, purses, shoes, sneakers, sandals, and boots, bath mats, inner tubes, garden and rubber hoses, foam rubber, tire pieces, latex gloves.	54
Organic	FINES	Small organic items that are smaller than 1/2 inch and fell through the screen on the sort table.	55
Organic	MISCELLANEOUS ORGANICS	Items of organic origin not elsewhere classified. Include wax, bar soap, carpet padding, cigarette butts, briquettes, and fireplace, burn barrel and fire pit ash, vacuum cleaner bags and contents, sponges. Also includes pet food and hair. Includes traditional mattresses made of a combination of foam and metal coil construction with upholstered exterior.	56

Group	Category	Description	Mapping to Sort Categories
Electronics	AUDIO/VISUAL EQUIPMENT (TV PERIPHERALS - COVERED)	Electronic A/V equipment covered by the NYS Electronics Recycling Law. Includes VCRs, digital video recorders, DVD players, digital converter boxes, cable or satellite receivers, electronic or video game consoles. Includes any batteries that are still inside the devices.	57
Electronics	AUDIO/VISUAL EQUIPMENT (NON-COVERED)	Electronic A/V equipment not covered by the NYS Electronics Recycling Law. Includes Radios, Stereos, Tape Decks, Cameras, GPS devices, Cell phones, Calculators. Includes any batteries that are still inside the devices.	58
Electronics	COMPUTER MONITORS	Items other than televisions containing a cathode ray tube (CRT) such as computer monitors and laptops. Also includes flat screen monitors	59
Electronics	TELEVISIONS	Television sets containing a cathode ray tube (CRT) and flat screen TVs.	60
Electronics	OTHER COMPUTER EQUIPMENT	Computer items not containing CRTs such as processors, mice and mouse pads, keyboards, and disk drives, cords and cables, portable devices (portable digital music player, tablet, e-readers etc.), printers, scanners, servers. Includes both computer cords and regular extension cords.	61
Constr. Debris	UNTREATED DIMENSION LUMBER, PALLETS, CRATES	Untreated, milled lumber commonly used in construction for framing and related uses. Includes 2 x 4's, 2 x 6's, etc.	62
Constr. Debris	TREATED/CONTAMINATED/ COMPOSITE WOOD	Lumber and wood products that have been painted or treated so as to render them difficult to compost (with generally 50% or more of the surface area treated). Includes painted and chemically treated lumber, plywood, strandboard, and particleboard. Also includes wood and lumber products that are mixed with other materials in such a way that they cannot easily be separated.	63
Constr. Debris	OTHER C&D DEBRIS NOT ELSEWHERE CLASSIFIED	Construction debris (other than wood, plastic and metal) that cannot be classified elsewhere, and mixed fine building material scraps. Includes clean and painted gypsum drywall, fiberglass insulation, rock/concrete/bricks, asphaltic and other roofing, fixtures, etc.	64
HHW	OIL FILTERS	Metal oil filters used in cars and other automobiles.	66
HHW	ANTIFREEZE	Full or partially full containers of anti-freeze.	67
HHW	WET-CELL BATTERIES	Wet-cell batteries of various sizes and types as commonly used in automobiles. Includes lead-acid batteries.	68
HHW	WATER-BASED ADHESIVES/GLUES	Water or resin/volatile solvent-based glues and adhesives, including epoxy, rubber cement, two-part glues and sealers, and auto body fillers.	69
HHW	LATEX PAINT	Latex paint	70
HHW	OIL-BASED PAINT/SOLVENT	Oil-based paints, varnishes, and similar products. Various solvents, including chlorinated and flammable solvents, paint strippers, solvents contaminated with other products such as paints, degreasers and some other cleaners if the primary ingredient	71
HHW	PESTICIDES/HERBICIDES/ RODENTICIDES	Variety of poisons with the purpose of discouraging or killing insects, weeds, vermin, or microorganisms. Fungicides and wood preservatives, such as pentachlorophenol, are also included.	72
HHW	DRY-CELL BATTERIES:	Dry-cell batteries of various sizes and types as commonly used in households. Includes cell phone and button cell batteries.	73
HHW	FLUORESCENT TUBES/CFLs	Fluorescent light tubes and compact fluorescent light bulbs (CFL).	74
HHW	MERCURY-LADEN WASTES	Thermostats, thermometers, and other items containing mercury. Excludes fluorescent bulbs.	75
HHW	COMPRESSED GAS CYLINDERS, FIRE EXTINGUISHERS	An apparatus, typically a metal container, containing chemicals or gas, held under pressure.	76
HHW	HOME MEDICAL PRODUCTS	Syringes, IV Bags, medical tubing	77
HHW	OTHER POTENTIALLY HARMFUL WASTES	Caustic acids and bases whose primary purpose is to clean surfaces, unclog drains, or perform other actions; photography chemicals, chemistry sets; household disinfectants and pool chemicals; gasoline/diesel fuels; motor oils and automotive fluids not elsewhere classified; smoke detectors, explosives.	78
Misc.	MISCELLANEOUS INORGANICS	Other inorganic materials not classified elsewhere. Includes ceramics, full or partially full containers of non-hazardous cleaning & hygiene products, fabric softener sheets and Brita filters.	65



Exhibit C-2  
 NYC 2013 Waste Characterization Study  
 Material Sort Categories - Final

Group	No.	Category	Description	Subsort(s)
Paper	1	NEWSPAPER	Printed ground wood newsprint (Advertising "slicks" (glossy paper), if found mixed with newspaper; otherwise, ad slicks are included with mixed low grade.)	
Paper	2	PLAIN OCC/KRAFT PAPER	Old unwaxed/uncoated corrugated container boxes, and Kraft paper including paper bags	
Paper	3	HIGH GRADE PAPER	White and lightly colored bond, rag, or stationery grade paper. This includes white or lightly colored sulfite/sulfate bond, copy papers, notebook paper, envelopes, Continuous-feed sulfite/sulfate computer printouts and forms of all types, excluding carbonless copy paper	
Paper	4	MIXED LOW GRADE PAPER	Includes junk mail, magazines, advertising "slicks" (glossy paper) not mixed with newspaper, colored papers, bleached Kraft including bags, boxboard, mailing tubes, carbonless copy paper, ground wood computer printouts, telephone directories, paperback books, hardcover books	
Paper	5	COMPOSTABLE/SOILED PAPER/WAXED OCC/KRAFT	Waxed papers and cardboards, other papers that were soiled with food during use (e.g., pizza box inserts); paper towels, wipes and napkins; paper plates, platters, cups, and bowls	
Paper	6	OTHER NONRECYCLABLE PAPER	Coated paper frozen food and ice cream containers/packaging and other polycoated papers (excluding polycoated beverage cartons and aseptic packaging); paper with other materials attached (e.g. juice concentrate cans, and spiral notebooks), and other non-recyclable papers such as carbon copy paper, label backing, and photographs, gypsum board tape rolls.	
Beverage Cartons	7	BEVERAGE CARTONS AND ASEPTIC BOXES	Beverage and food containers made of bleached and unbleached paperboard coated with HDPE film. This includes polycoated milk, juice and soup containers, and aseptic juice and soup boxes, including those with plastic spouts attached. Excludes juice concentrate cans.	Beverage Container
Plastic	8	#1 PET BOTTLES AND JARS	#1 Polyethylene terephthalate translucent bottles and jars with necks that are clear or green colored.	Beverage Container
Plastic	9	#1 PET BOTTLES ALL OTHER COLORS	#1 Polyethylene terephthalate translucent bottles and jars with necks that are other colors including blue, red, amber, yellow, orange, and opaque.	Beverage Container
Plastic	10	#2 HDPE NATURAL BOTTLES	High-density translucent polyethylene (#2) bottles. Milk, juice, beverage, vinegar, distilled water bottles and jars with necks .	Beverage Container
Plastic	11	#2 HDPE PIGMENTED BOTTLES	High-density colored (including opaque white) polyethylene (#2) bottles. Liquid detergent bottles, some hair care bottles and jars with necks. Includes empty motor oil bottles. (Chemical bottles that still contain product are sorted according to that material-for instance, pesticides.)	Beverage Container
Plastic	12	OTHER PLASTIC BOTTLES	All other bottles and jars with necks labeled with resin codes other than #1 and #2, bioplastic, dual-labeled (marked with two resin codes), other labeled, or unlabeled. Includes empty bottles that once held motor oil or other HHW. (Chemical bottles that still contain product are sorted according to that material-for instance, pesticides.)	Beverage Container
Plastic	13	#1 PET THERMOFORMS	Thermoform molded trays, clamshells, and other packaging, typically used for food items and made out of #1 PET.	
Plastic	14	OTHER PVC	White plumbing pipe, identifiable PVC packaging other than PVC bottles/tubs.	
Plastic	15	TUBS AND LIDS EXCLUDING #6 POLYSTYRENE	Injection molded (predominantly #2 & #5 plastic resin) wide mouth containers without a neck, such as cottage cheese and margarine tubs, of any resin type excluding #6 polystyrene. Has molding "nipple" on the bottom. Includes lids to the tubs and plastic bottle caps. Includes pill bottles.	Resin Type

Group	No.	Category	Description	Subsort(s)
Plastic	16	#6 RIGID POLYSTYRENE CONTAINERS AND PACKAGING	#6 rigid polystyrene containers and packaging. Includes clear trays, clamshells, and cases, salad green containers, cookie tray inserts, yogurt, butter and sour cream containers, CD cases.	
Plastic	17	#6 EXPANDED POLYSTYRENE CONTAINERS AND PACKAGING	#6 expanded polystyrene (EPS) packaging and finished products. Includes EPS trays used for packaging and shelf display of meats and groceries. Excludes Styrofoam plates, cups, bowls and platters, which are included in Single Use Plates, Cups, and Cutlery.	
Plastic	18	#1-#7 OTHER RIGID CONTAINERS/PACKAGING	Containers and packaging not classified elsewhere, including containers of all types, clamshells, trays, protective packaging, stand-up toothpaste tubes, and plastic spoons. Includes empty tubes of toothpaste, lotion, conditioner, body wash and caulk. Excludes #1 PET, thermoforms and injection molded tubs and lids.	Resin Type
Plastic	19	FILM: RETAIL BAGS & SLEEVES	Plastic bags given to customers by any retail establishment for transporting purchased goods. Includes labeled grocery and merchandise bags, dry cleaner bags, and newspaper sheath bags. Excludes garbage bags, baggies or Ziploc bags; or bags heavily soiled	
Plastic	20	FILM: GARBAGE BAGS	Plastic bags designed and marketed to contain garbage, recycling, or other materials for disposal.	
Plastic	21	FILM PLASTIC: FOOD/DRINK POUCHES	Drink pouches made of multi-layer film plastic and including foil.	Beverage Container
Plastic	22	FILM: OTHER #2/#4 POLYETHYLENE	Other film bags not elsewhere classified and other plastic film products made of #2 HDPE, #4 LDPE or #4 LLDPE.	
Plastic	23	FILM: OTHER NON-POLYETHYLENE/CONTAMINATED	Other film bags not elsewhere classified, or other film products made of resins other than #2 HDPE, #4 LDPE or #4 LLDPE. Film that is heavily contaminated with food, liquid or grit during use (including baggies, Ziploc bags and plastic wraps); is woven together (e.g., grain bags); contains multiple layers of film or other materials that have been fused together (e.g., potato chip bags).	
Plastic	24	SINGLE-USE PLATES, CUPS, CUTLERY	Plastic single use spoons, forks, knives, plates, cups, cup lids, bowls, straws, and platters of various resins, including expanded polystyrene (EPS). Excludes any EPS tray used for packaging and display (such as meat trays).	Resin Type
Plastic	25	APPLIANCES: PLASTIC	Small and large electric appliances made predominantly (> 50%) of plastic.	Resin Type
Plastic	26	BULK/RIGID: PLASTIC CRATES AND SODA BOTTLE CARRIERS	Plastic crates and soda bottle carriers.	Resin Type
Plastic	27	BULK/RIGID: PLASTIC TOYS/HOUSEWARES	Bulky rigid plastic items from household use. As a rule of thumb, larger in size than a breadbox. Includes plastic furniture, tools, and toys. Excludes plastic appliances.	Resin Type
Plastic	28	BULK/RIGID: OTHER DURABLE	Bulky rigid plastic items not elsewhere classified. As a rule of thumb, larger in size than a breadbox. Includes 5-gal buckets, large planters.	Resin Type
Plastic	29	OTHER PLASTICS MATERIALS NOT ELSEWHERE CLASSIFIED	Plastic items made entirely of plastic or predominantly of plastic not elsewhere classified. As a rule of thumb, smaller in size than a breadbox. Includes pens and markers, lighters, 3-ring binders, small toys and housewares, toothbrushes, razors, dental floss containers, CD/DVDs, VHS tapes.	Resin Type
Glass	30	CLEAR CONTAINER GLASS	Manually sortable, recyclable clear glass bottles and jars that are greater than 2" x 2"	Beverage Container
Glass	31	GREEN CONTAINER GLASS	Manually sortable, recyclable green glass bottles and jars that are greater than 2" x 2"	Beverage Container
Glass	32	BROWN CONTAINER GLASS	Manually sortable, recyclable brown glass bottles and jars that are greater than 2" x 2"	Beverage Container
Glass	33	OTHER COLOR CONTAINER GLASS	Manually sortable, recyclable blue, yellow, red and other color glass bottles and jars that are greater than 2" x 2"	Beverage Container
Glass	34	MIXED CULLET	Broken glass of any color not manually sortable (under 2" x 2"); glass shards	

Group	No.	Category	Description	Subsort(s)
Glass	35	OTHER GLASS	Window glass, mirrors, light bulbs (except fluorescent tubes), decorative glassware (e.g. vases), decorative glass bottles (e.g. perfume bottles), drinking glasses, other noncontainer glass.	
Metal	36	ALUMINUM CANS	Aluminum beverage and food cans and bi-metal cans made mostly of aluminum.	Beverage Container
Metal	37	ALUMINUM	Aluminum food containers, trays, and foil.	
Metal	38	OTHER ALUMINUM	Aluminum products and scrap that are 50% or more aluminum by weight, such as window frames, cookware.	
Metal	39	OTHER NONFERROUS	Non-aluminum metals not derived from iron, to which a magnet will not adhere, and which are not significantly contaminated with other metals or materials. Includes copper, brass, lead, stainless steel, zinc.	
Metal	40	STEEL/TIN FOOD CANS	Steel food containers, including bi-metal cans mostly of steel. Includes removed steel lids.	Beverage Container
Metal	41	EMPTY AEROSOL CANS	Empty, mixed material/metal aerosol cans. (Aerosols that still contain product are sorted according to that material-for instance, solvent-based paint.)	
Metal	42	OTHER FERROUS	Ferrous and alloyed ferrous scrap metals to which a magnet adheres and which are not significantly contaminated with other metals or materials. Includes ferrous metal caps/lids to containers of other	
Metal	43	MIXED METALS	Items that are predominately metal with other materials attached such as motors, insulated wire, and finished products containing a mixture of metals, or metals and other materials, that are not classified in the "small appliances" section below. Includes pieces of white goods. Included certain non-computer insulated wiring such as holiday light strands if the wiring is half or more of the weight.	
Metal	44	APPLIANCES: FERROUS	Large and small electric appliances made predominantly of ferrous metal (steel). Includes large appliances such as washers, dryers, stoves, refrigerators, dishwashers, etc. Includes small appliances such as toasters, microwave ovens, power tools, curling irons, and light fixtures.	
Metal	45	APPLIANCES: NON-FERROUS	Large and small electric appliances made predominantly of non-ferrous metal (stainless steel).	
Organic	46	YARD WASTE	Any plant materials from a yard or garden area. Includes grass clippings, leaves, weeds, garden wastes, prunings, trimmings, limbs, stumps, etc. Also includes cut flowers and house plants.	
Organic	47	FOOD	Vegetative and non-vegetative food wastes and scraps. Includes vegetative food wastes such as vegetables and fruit as well as dairy, meat, bones, shells, husks, rinds, and prepared foods etc. Also includes vitamins and supplements. Excludes food containers, except when container weight is not appreciable compared to the food inside and separation is not practical.	
Organic	48	NON-C&D WOOD	Wood products not associated with C&D activities. Includes furniture, popsicle sticks, chopsticks, wooden spoons, and other miscellaneous household wood products. Also includes clean, stained, painted and composite woods, wicker, and box springs.	
Organic	49	TEXTILES: NON-CLOTHING	Non-clothing fabrics made of rag stock fabric materials of natural or synthetic textiles, such as cotton, wool, silk, woven nylon, rayon, and polyester. Includes handbags, linens, draperies, tablecloths, nylon rope.	
Organic	50	TEXTILES: CLOTHING	All clothing textiles. Includes cloth diapers and fabrics made of natural or synthetic textiles, such as cotton, wool, silk, woven nylon, rayon, and polyester.	
Organic	51	CARPET/UPHOLSTERY	General category of flooring applications and non-rag stock textiles consisting of various natural or synthetic fibers bonded to some type of backing material. Includes mattresses and cushions made only of urethane foam with upholstered exterior.	

Group	No.	Category	Description	Subsort(s)
Organic	52	DISPOSABLE DIAPERS & SANITARY PRODUCTS	Diapers and sanitary products made from a combination of natural and/or synthetic fibers, and made for the purpose of single use. This includes disposable baby diapers, adult protective undergarments, and feminine hygiene products.	
Organic	53	ANIMAL BY-PRODUCTS	Animal carcasses not resulting from food storage or preparation. Also includes animal wastes, and kitty litter.	
Organic	54	SHOES/ RUBBER/ LEATHER	Finished products and scrap materials made of leather, and natural and synthetic rubber. Includes leather jackets, belts, bags, purses, shoes, sneakers, sandals, and boots, bath mats, inner tubes, garden and rubber hoses, foam rubber, tire pieces, latex gloves.	
Organic	55	FINES	Small organic items that are smaller than 1/2 inch and fell through the screen on the sort table.	
Organic	56	MISCELLANEOUS ORGANICS	Items of organic origin not elsewhere classified. Include wax, bar soap, carpet padding, cigarette butts, briquettes, and fireplace, burn barrel and fire pit ash, vacuum cleaner bags and contents, sponges. Also includes pet food and hair. Includes traditional mattresses made of a combination of foam and metal coil construction with upholstered exterior.	
Electronics	57	AUDIO/VISUAL EQUIPMENT (TV PERIPHERALS - COVERED)	Electronic A/V equipment covered by the NYS Electronics Recycling Law. Includes VCRs, digital video recorders, DVD players, digital converter boxes, cable or satellite receivers, electronic or video game consoles. Includes any batteries that are still inside the devices.	
Electronics	58	AUDIO/VISUAL EQUIPMENT (NON-COVERED)	Electronic A/V equipment not covered by the NYS Electronics Recycling Law. Includes Radios, Stereos, Tape Decks, Cameras, GPS devices, Cell phones, Calculators. Includes any batteries that are still inside the devices.	
Electronics	59	COMPUTER MONITORS	Items other than televisions containing a cathode ray tube (CRT) such as computer monitors and laptops. Also includes flat screen monitors	
Electronics	60	TELEVISIONS	Television sets containing a cathode ray tube (CRT) and flat screen TVs.	
Electronics	61	OTHER COMPUTER EQUIPMENT	Computer items not containing CRTs such as processors, mice and mouse pads, keyboards, and disk drives, cords and cables, portable devices (portable digital music player, tablet, e-readers etc.), printers, scanners, servers. Includes both computer cords and regular extension cords.	
Constr. Debris	62	UNTREATED DIMENSION LUMBER, PALLETS, CRATES	Untreated, milled lumber commonly used in construction for framing and related uses. Includes 2 x 4's, 2 x 6's, etc.	
Constr. Debris	63	TREATED/CONTAMINATED/ COMPOSITE WOOD	Lumber and wood products that have been painted or treated so as to render them difficult to compost (with generally 50% or more of the surface area treated). Includes painted and chemically treated lumber, plywood, strandboard, and particleboard. Also includes wood and lumber products that are mixed with other materials in such a way that they cannot easily be separated.	
Constr. Debris	64	OTHER C&D DEBRIS NOT ELSEWHERE CLASSIFIED	Construction debris (other than wood, plastic and metal) that cannot be classified elsewhere, and mixed fine building material scraps. Includes clean and painted gypsum drywall, fiberglass insulation, rock/concrete/bricks, asphaltic and other roofing, fixtures, etc.	
HHW	66	OIL FILTERS	Metal oil filters used in cars and other automobiles.	
HHW	67	ANTIFREEZE	Full or partially full containers of anti-freeze.	
HHW	68	WET-CELL BATTERIES	Wet-cell batteries of various sizes and types as commonly used in automobiles. Includes lead-acid batteries.	
HHW	69	WATER-BASED ADHESIVES/GLUES	Water or resin/volatile solvent-based glues and adhesives, including epoxy, rubber cement, two-part glues and sealers, and auto body fillers.	
HHW	70	LATEX PAINT	Latex paint	
HHW	71	OIL-BASED PAINT/SOLVENT	Oil-based paints, varnishes, and similar products. Various solvents, including chlorinated and flammable solvents, paint strippers, solvents contaminated with other products such as paints, degreasers and some other cleaners if the primary ingredient	

Group	No.	Category	Description	Subsort(s)
HHW	72	PESTICIDES/HERBICIDES/ RODENTICIDES	Variety of poisons with the purpose of discouraging or killing insects, weeds, vermin, or microorganisms. Fungicides and wood preservatives, such as pentachlorophenol, are also included.	
HHW	73	DRY-CELL BATTERIES:	Dry-cell batteries of various sizes and types as commonly used in households. Includes cell phone and button cell batteries.	
HHW	74	FLUORESCENT TUBES/CFLs	Fluorescent light tubes and compact fluorescent light bulbs (CFL).	
HHW	75	MERCURY-LADEN WASTES	Thermostats, thermometers, and other items containing mercury. Excludes fluorescent bulbs.	
HHW	76	COMPRESSED GAS CYLINDERS, FIRE EXTINGUISHERS	An apparatus, typically a metal container, containing chemicals or gas, held under pressure.	
HHW	77	HOME MEDICAL PRODUCTS	Syringes, IV Bags, medical tubing	
HHW	78	OTHER POTENTIALLY HARMFUL WASTES	Caustic acids and bases whose primary purpose is to clean surfaces, unclog drains, or perform other actions; photography chemicals, chemistry sets; household disinfectants and pool chemicals; gasoline/diesel fuels; motor oils and automotive fluids not elsewhere classified; smoke detectors, explosives.	
Misc.	65	MISCELLANEOUS INORGANICS	Other inorganic materials not classified elsewhere. Includes ceramics, full or partially full containers of non-hazardous cleaning & hygiene products, fabric softener sheets and Brita filters.	

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## Bottle, Can and Carton Subsort

1	Soda	Carbonated sodas, sparkling/mineral water
2	Beer	Beer, malt, hard lemonade, hard cider, wine coolers
3	Water	Water (excluding flavored water)
4	Iced Tea	Ice teas and juice drinks with less than 100% juice
5	Sports Drinks	Gatorade, PowerAde
6	Other New Age Drinks	Flavored water, Energy drinks, Coffee
7	Wine	Wine, Sake
8	Spirits	Distilled spirits, liquor, liqueurs
9	Milk/Soy/Dairy	Milk, soy milk, rice milk
10	100% Juice	Fruit/vegetable juices. Includes 100% coconut water.
11	Food	Food, soup, non-dairy creamer, protein/nutritional shakes, infant formula
12	Non-food/Non-beverage	All non-drinkable, non-edible products excluding empty HHW. Includes pet food containers.
13	Beverage > 1 gallon	Any beverage container > 1 gallon; refillable water jugs
14	Empty HHW/Auto Fluid Containers	Empty HHW containers, including automotive oil/fluids
15	Indistinguishable	Containers with indeterminate beverage type

## Categories Requiring Beverage Subsort

### PLASTIC

- 8 #1 PET Clear and Green Bottles
- 9 #1 PET Other Color Bottles
- 10 #2 HDPE Natural Bottles
- 11 #2 HDPE Pigmented Bottles
- 12 #3 PVC Bottles
- 12 #4 LDPE Bottles
- 12 #5 PP Bottles
- 12 #6 PS Bottles
- 12 #7 Other Bottles
- 12 Dual Labeled Bottles
- 12 BioPlastic Bottles (Labeled only)
- 12 Other Labeled Resin Bottles
- 12 Unlabeled Bottles
- 21 Film Pouches

### CARTONS

- 7 Cartons/Aseptic Juice Boxes

### GLASS

- 30 Clear Glass Bottles
- 31 Green Glass Bottles
- 32 Brown Glass Bottles
- 33 Other Color Glass Bottles (red, orange, yellow, blue, etc.)

### METAL

- 36 Aluminum Cans
- 40 Steel Cans

## Resin Subsort

1	#1 PET	Labeled
2	#2 HDPE Natural	Labeled
3	#2 HDPE Pigmented	Labeled
4	#3 PVC	Labeled/Unlabeled
5	#4 LDPE/LLDPE	Labeled
6	#5 PP Rigid	Labeled
7	#5 PP Expanded	Labeled/Unlabeled
8	#6 PS Rigid	Labeled/Unlabeled
9	#6 PS Expanded	Labeled/Unlabeled
10	#7 Other	Labeled
11	Dual Numbered	Labeled
12	Other Labeled Resin	Labeled
13	Polyethylene Film (HD/LD/LLD)	Labeled/Unlabeled
14	Non-PE Film	Labeled/Unlabeled
15	Bioplastic	Labeled Only
16	Unlabeled Resin	Unlabeled

## Plastic Categories Requiring Resin Subsort

- 15 Tubs, Lids & Caps
- 18 Rigid Containers/Packaging
- 24 Single Use Plates/Cups/Cutlery/Straws
- 25 Appliances: Plastic
- 26 Bulk/Rigid: Crates and Soda Bottle Carriers
- 27 Bulk/Rigid: Toys & Housewares
- 28 Bulk/Rigid: Other Durable Plastics
- 29 Other Plastics Not Elsewhere Classified



## Targeted Recyclables - Main Categories

Material	Targeted	Material	Targeted
<b>Paper</b>		<b>Organics</b>	
Newspaper	Paper	Yard Waste	
Plain OCC/Kraft Paper	Paper	Food	
High Grade Paper	Paper	Non-C&D Wood	
Mixed Low Grade Paper	Paper	Textiles: Non-Clothing	
Paper: Compostable/Soiled/Waxed OCC/Kraft		Textiles: Clothing	
Other Nonrecyclable Paper		Carpet/Upholstery	
Paper Beverage Cartons/Aseptic Boxes	MGP	Disposable Diapers/Sanitary Products	
		Animal By-Products	
		Shoes/Rubber/Leather	
		Fines	
		Miscellaneous Organics	
<b>Plastic</b>		<b>E-Waste</b>	
#1 PET Bottles	MGP	Audio/Visual Equipment-TV Peripherals (Covered)	
#2 HDPE Natural Bottles	MGP	Audio/Visual Equipment-Other (Non-Covered)	
#2 HDPE Pigmented Bottles	MGP	Computer Monitors	
Other Plastic Bottles	MGP	Televisions	
Rigid Plastic Containers/Packaging	MGP	Other Computer Equipment	
#6 EPS Containers/Packaging (including Single Use)			
Film Plastic: Retail Bags/Sleeves		<b>Construction &amp; Demolition</b>	
Film Plastic: Garbage Bags		Untreated Dimensional Lumber/Pallets/Crates	
Film Plastic: Food/Drink Pouches		Treated/Contaminated Wood	
Film Plastic: All Other Film		Other C&D Debris Not Elsewhere Classified	
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	MGP		
Appliances: Plastic	MGP		
Bulk/Rigid Plastic	MGP		
Other Plastics	MGP		
		<b>Special Waste</b>	
<b>Glass</b>		Oil Filters	
Clear Container Glass	MGP	Antifreeze	
Green Container Glass	MGP	Wet-Cell Batteries	
Brown Container Glass	MGP	Water-Based Adhesives/Glues	
Other Color Container Glass	MGP	Latex Paint	
Mixed Cullet	MGP	Oil-Based Paint/Solvent	
Other Glass		Pesticides/Herbicides/Rodenticides	
		Dry-Cell Batteries	
<b>Metal</b>		Fluorescent Tubes/CFLs	
Aluminum Cans	MGP	Mercury-Laden Wastes	
Aluminum Foil/Containers	MGP	Compressed Gas Cylinders/Fire Extinguishers	
Other Aluminum	MGP	Home Medical Products	
Other Non-Ferrous	MGP	Other Potentially Harmful Wastes	
Steel/Tin Food Cans	MGP		
Empty Aerosol Cans	MGP	<b>Miscellaneous Inorganics</b>	
Other Ferrous	MGP		
Mixed Metals	MGP		
Appliances: Ferrous	MGP		
Appliances: Non-Ferrous	MGP		

**Targeted Recyclables - Bottle, Can and Carton Subsort**

<b>Bottle, Can and Carton Subsort</b>	<b>Soda</b>	<b>Beer</b>	<b>Water</b>	<b>Iced Tea/Juice Drinks</b>	<b>Sports Drinks</b>	<b>Other New Age Drinks</b>	<b>Wine</b>	<b>Spirits</b>	<b>Milk/Soy/ Dairy</b>	<b>100% Fruit and Vegetable Juices</b>	<b>Food</b>	<b>Non- Food/Non- Beverage</b>	<b>Beverage &gt; 1 Gallon</b>	<b>Empty HHW</b>	<b>Indistinguishable</b>
Paper Beverage Cartons/Aseptic Boxes	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
#1 PET Clear/Green Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
#1 PET Other Color Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
#2 HDPE Natural Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
#2 HDPE Pigmented Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
#3 PVC Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
#4 LDPE/LLDPE Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
#5 PP Rigid Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
#6 PS Rigid Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
#7 Other Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
Other Labeled Resin Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
Dual Numbered Plastic Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
Unlabeled Plastic Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
BioPlastic Bottles	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
Film Plastic: Food/Drink Pouches															
Clear Container Glass	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
Green Container Glass	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
Brown Container Glass	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
Other Color Container Glass	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
Aluminum Cans	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP
Steel/Tin Food Cans	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP	MGP

Targeted Recyclables - Resin Subsort

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin
Plastic Bottles	Rigid Containers/Packaging	MGP	MGP	MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
#1 PET Thermoforms	Rigid Containers/Packaging	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
Other Rigid Containers/Packaging	Rigid Containers/Packaging	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
Appliances: Plastic	Other Rigid Plastic	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
Other PVC	Other Rigid Plastic	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
Other Plastics	Other Rigid Plastic	MGP		MGP	MGP	MGP	MGP	MGP		MGP		MGP	MGP	MGP			MGP	MGP
#6 EPS Containers/Packaging	Expanded Polystyrene																	
Film Plastic: Retail Bags and Sleeves	Film																	
Film Plastic: Garbage Bags	Film																	
Film Plastic: Food/Drink Pouches	Film																	
Film Plastic: Other #2/#4 Polyethylene	Film																	
Film Plastic: Other n-PE/Contaminated	Film																	

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**APPENDIX D**  
**SAMPLING FIELD FORMS**

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Study Route Name	Tip	DSNY Collection Date	To Dump Date	Truck Number (as per Boro Contact)	DSNY Borough contact	MSW Consultant Contact (Confirmation of Truck dump)	Remarks
K011T1M	Sims-Bronx	9/18	9/19	25CW819	SUPT.BUGLIONE		
K081T1M	Sims-Claremont	9/18	9/19	25CW868	SUPT. BUGLIONE		
K101T1M	Sims-Claremont	9/18	9/19	25DE110	SUPT.LUPO		
K122T1M	Sims-Claremont	9/18	9/19	25CZ565	SUPT. LUPO		
K152T2M	Sims-Claremont	9/18	9/19	25CZ539	SUPT. LUPO		
K185T1M	Sims-Claremont	9/18	9/19	25CZ617	SUPT. LUPO		
S022T1M	Sims-Claremont	9/18	9/19	25CZ557	SUPV. HALISKOE		
S033T4M	Sims-Claremont	9/18	9/19	25CZ132	SUPV. HALISKOE		
X041T4R	WM-Harlem River Yard	9/18	9/19	25DC623	SUPT. TRIANO		
X061T3R	WM-Harlem River Yard	9/18	9/19	25DF100	SUPT. TRIANO		
X061T4R	WM-Harlem River Yard	9/18	9/19	25DF093	SUPT. TRIANO		
X094T2R	WM-Harlem River Yard	9/18	9/19	25DD202	SUPT. TRIANO		
X101T2R	WM-Harlem River Yard	9/18	9/19	25DC865	SUPT. TRIANO		
X122T3R	WM-Harlem River Yard	9/18	9/19	25DC184	SUPT. TRIANO		
K013T5R	WM-Varick St.	9/18	9/19	25CW827	SUPT.BUGLIONE		
K014T1R	WM-Varick St.	9/18	9/19	25DC142	SUPT. BUGLIONE		
K061T1R	WM-Varick St.	9/18	9/19	25DC238	SUPT. LUPO		
K102T1R	WM-Varick St.	9/18	9/19	25DC682	SUPT. LUPO		
K131T1R	WM-Varick St.	9/18	9/19	25DC293	SUPT. LUPO		
K174T2R	WM-Varick St.	9/18	9/19	25DC884	SUPT. BUGLIONE		
K175T2R	WM-Varick St.	9/18	9/19	25DD531	SUPT. BUGLIONE		
K187T3R	WM-Varick St.	9/18	9/19	25DD602	SUPT. LUPO		

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Collection

Date:

9 / 8 / 12

Sample

Date:

9 / 10 / 12

Borough:

K

District:

Ø 4

Section:

1

Day:

5

Route:

2

Sector:

R

Truck #:

CW2043B

Cart:

1 of 2

Tonight's Sample # 3 of 6

Site: Varick

Sampler: DE

Bulky Wt: 76.3 lbs

Description: 2 car tires

Bulky Wt : \_\_\_\_\_ lbs

Description: \_\_\_\_\_

Bulky Wt: \_\_\_\_\_ lbs

Description: \_\_\_\_\_

Notes: Truck arrived but  
dinner never did.

## NYC 2012 Daily Vehicle Selection

Route	Tip Location	Coll. Date	Sample Date	Truck Number	Sample Quad.	Arrival Time	Sample Weight	# of Carts	Notes
K023F1M	Sims-Claremont	9/21	9/22	25CW193	3	2:10	142	2.8	
K073F1M	Sims-Claremont	9/21	9/22	25DE011	1	1:46	138	2.2	18.80 lb metal bed frame #42 metal?
K074F2M	Sims-Claremont	9/21	9/22	25CZ510	3	3:41	134	2	
K091F1M	Sims-Claremont	9/21	9/22	25CZ585	2	1:13	138	1.3	
K092F1M	Sims-Claremont	9/21	9/22	25DE016	2	1:41	147	1.5	
K121F1M	Sims-Claremont	9/21	9/22	25CZ565	3	1:12	149	2.4	
K141F2M	Sims-Claremont	9/21	9/22	25CZ575 <sup>558</sup>	1				truck down
S034F2M	Sims-Claremont	9/21	9/22	25DE105	4	12:40	131	2	
S035F2M	Sims-Claremont	9/21	9/22	25CZ132	1	12:42	134	2.7	13.10 lbs white plastic bucket plastic #20
S038F1M	Sims-Claremont	9/21	9/22	25CZ568	3	2:15	145	1.9	
Samples = 10		DSNY Contact = Carl			DSNY Contact Phone =			646	

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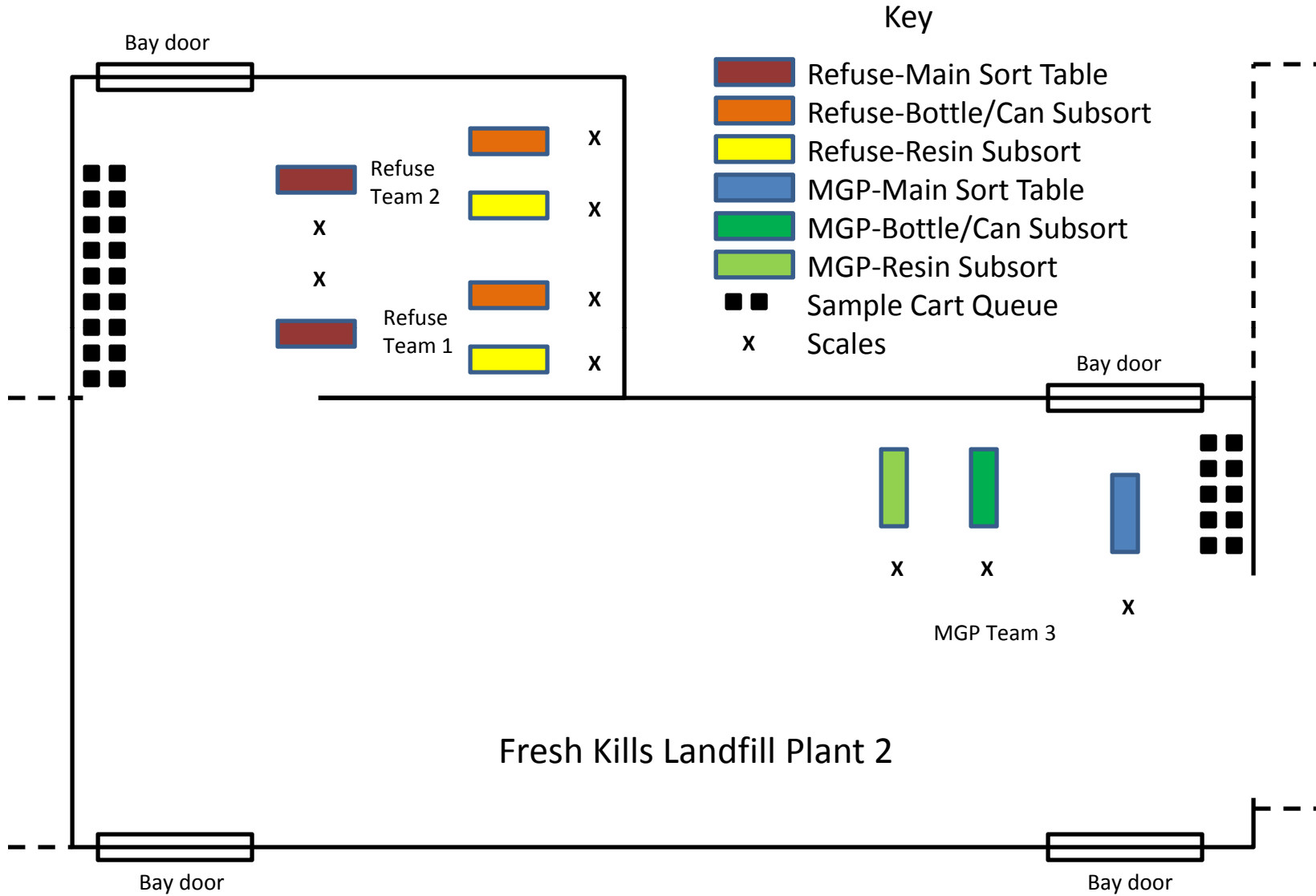
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**APPENDIX E**  
**WORK SITE LAYOUT**

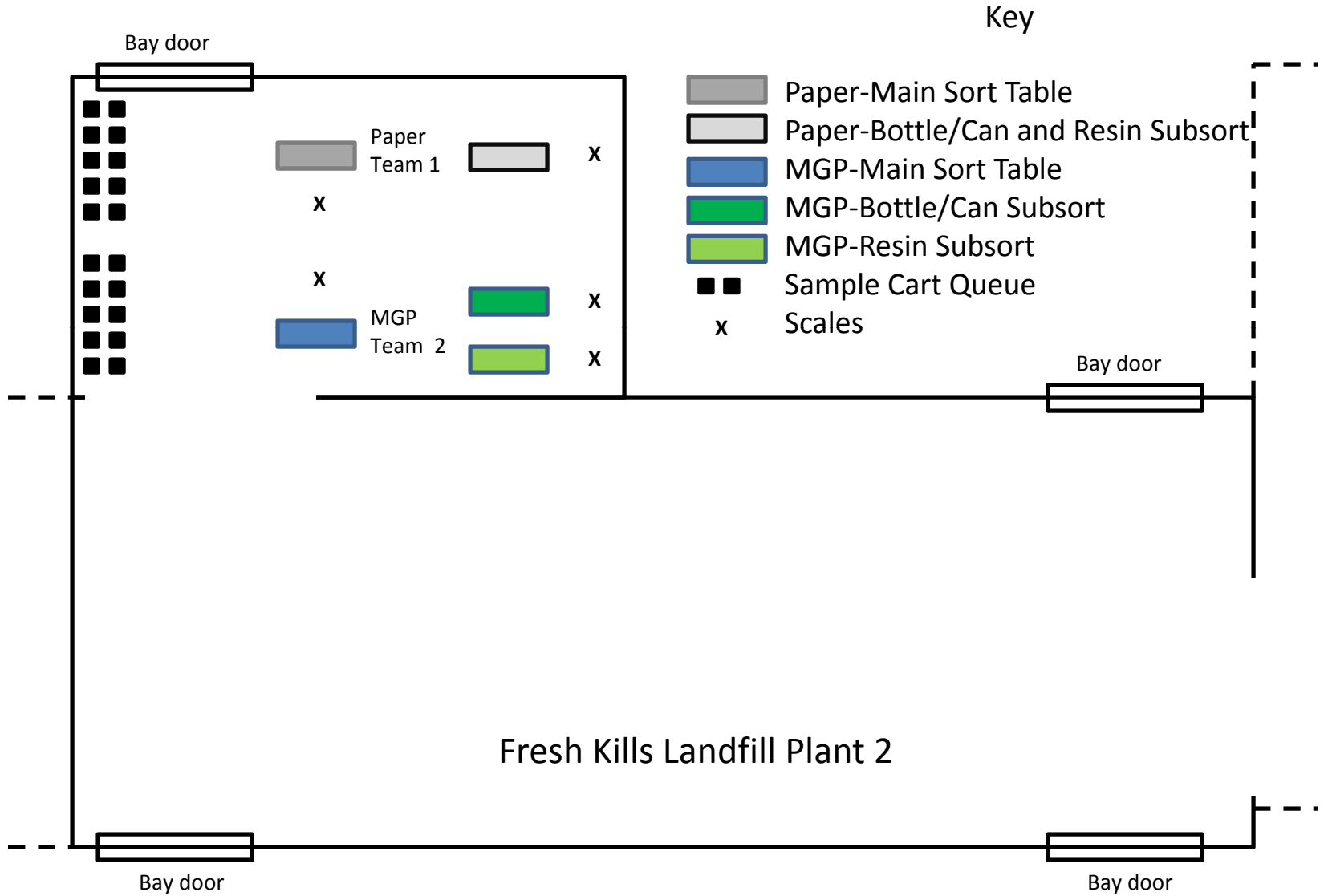
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# Exhibit E1 – Plant 2 Work Area Schematic Fall Season – MGP & Refuse



# Exhibit E2 – Plant 2 Work Area Schematic Spring Season – MGP & Paper





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**APPENDIX F**  
**HEALTH AND SAFETY PLAN**

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# SAFETY AND HEALTH PLAN FOR WASTE COMPOSITION ANALYSIS

Sims/DSNY 2012 Waste Characterization Study



August 15, 2012



## **MSW CONSULTANTS**

*MidAtlantic Solid Waste Consultants*

6225 Sawyer Road, New Market, MD 22174

(301) 607-6428

11875 High Tech Avenue, Suite 150, Orlando, FL 32817

(407) 380-8951

[www.mswconsultants.us](http://www.mswconsultants.us)



*Printed on 30% post-consumer recycled paper.*

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# SAFETY AND HEALTH PLAN

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## 1. INTRODUCTION

This Safety and Health Plan (SAHP) has been written for use by MSW Consultants, LLC, (MSW Consultants) personnel, their subcontractors, and any other individuals authorized access to areas where site control is established to conduct field work associated with the performance of a physical or visual composition study of municipal solid wastes.

MSW Consultants does not guarantee the health and safety of any person entering the designated work areas. Because of the nature of this work and the activity occurring therein, it is not possible to discover, evaluate, and provide protection for all possible hazards that may be encountered. Strict adherence to these health and safety guidelines will reduce, but not eliminate, the potential for injury or exposure to hazards on the site. The health and safety guidelines in this plan were prepared generally for this type of field activity. It may be necessary to refine this plan for each individual project, depending on local site characteristics and job requirements.

The following practices are included in this document:

- ◆ Safety and health framework at host municipal solid waste facilities;
- ◆ Sampling hazard evaluation and controls;
- ◆ Sorting hazard evaluation and controls;
- ◆ Fundamental safe work practices including site controls;
- ◆ Personnel protective equipment (PPE) applicable the field work; and
- ◆ Emergency response procedures.

A copy of this SAHP will be maintained by the MSW Consultants Field Supervisor at all times while field operations are in progress. A copy of the SAHP will be provided to the client, facility management, subcontractors, and other project stakeholders at their request. Each employee (MSW Consultants or subcontractor) is required to receive basic training on the safety and health principals and procedures contained herein at the outset of the project and sign a release documenting receipt of such training.

### 1.1. STATEMENT OF SAFETY AND HEALTH POLICY

It is the policy of MSW Consultants to conduct all work in a manner that minimizes the physical and chemical/biological hazards to which workers might be exposed in the course of their work. MSW consultants also will conduct emergency planning in such as way as to minimize the consequences of any accident or exposure for their employees and subcontractors. MSW Consultants will provide adequate training and supervision to all employees performing work on a given project and will be responsible for ensuring all employees and subcontractors follow the provisions of the Safety and Health Plan developed for that project.

Safety is basic or inherent to the work performed by MSW Consultants. Each employee (MSW Consultants or subcontractor) is held accountable and responsible for working safely, including following the procedures and guidance of this SAHP. All employees are required to comply with

# **SAFETY AND HEALTH PLAN**

applicable safety regulations. Individuals who do not follow the procedure and guidance of this SAHP are subject to removal from the site and project.

In addition to this policy, MSW Consultants will hold the project and corporate staff responsible for the safe conduct of work during this project, according to the role and responsibilities described herein. Any willful violation of the provisions of this plan are grounds for immediate discipline or dismissal.

## **2. PROGRAM MANAGEMENT**

Safety is an essential part of field operations management function and responsibility. It is the responsibility of MSW Consultants designated field operations manager to see that each person under this project understands and complies with all safety rules and requirements. This section presents the general background and guidelines for implementing and complying with safety and health requirements for waste composition studies.

### **2.1. BACKGROUND INFORMATION**

<b>Contractor:</b>	MSW Consultants, LLC
<b>Contract Number:</b>	<u>Contract Dated May 18, 2012</u>
<b>Corporate Address:</b>	6225 Sawyer Road New Market, MD 21774
<b>Phone:</b>	(301) 607-6428
<b>Designated Safety Office:</b>	<u>Mark Hart</u>
<b>Brief Project Name:</b>	<u>Waste and Recycling Composition Study</u>
<b>Brief Project Description:</b>	This project entails the physical sampling and sorting of 200 to 225 pound samples of municipal solid waste and 100 to 125 Pound of MGP and Paper Recyclables into its component categories.

### **2.2. SAFETY AND HEALTH FRAMEWORK**

Figure 2-1 summarizes the three layers of organizations/personnel that are typically involved safety and health plan compliance for waste composition projects. One unique aspect to the performance of a waste composition study is that the project is typically hosted by a permitted solid waste



management facility. Such facilities are required to have detailed safety and health plans, accident prevention plans, accident reporting plans, emergency response plans, and other procedures and policies in place to minimize risks associated with handling municipal solid waste in an operating environment with noise, dust, heavy machinery, and other risks. For this reason, it is MSW Consultants' policy first and foremost to obtain, review, and comply with the safety and health framework that exists at the facility hosting the project.

**Figure 2-1 Safety and Health Plan Framework**



Occasionally, procedural conflicts may arise between the host facility safety and health procedures and processes and MSW Consultants' site controls. In these instances, the requirement most protective of worker health and safety, the public, and property shall take precedence.

The remainder of this section identifies task organization and personnel responsibilities for the management and implementation of this SAHP. It also specifies the training and physical qualifications of employees performing the work. Accident reporting, recordkeeping, and emergency planning also are discussed in this section of the SAHP:

## 2.3. TRAINING REQUIREMENTS

If required by the host facility, all MSW Consultant employees (and subcontractors) will participate in a training program provided by the host facility.

The following training will be provided by MSW Consultants Field Supervisor staff at the outset of the project and prior to conducting any field operations. This training is intended to be provided verbally in the form of tailgate meetings or roundtable discussions with the field employees.

- ◆ Understanding the SAHP;
- ◆ Personal protective equipment and use;
- ◆ Physical, chemical, and biological hazards and prevention;
- ◆ Site access and control;
- ◆ Roles and responsibilities;

# **SAFETY AND HEALTH PLAN**

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- ◆ Accident prevention and reporting; and
- ◆ Emergency procedures.

## **2.4. CLIENT PERSONNEL AND VISITORS**

Client personnel other than those already working at the host facility and other visitors must obtain clearance from both the host facility management and from the MSW Consultants Field Supervisor before obtaining access to controlled work areas. Visitors will receive a job-specific safety briefing. Visitors in areas requiring PPE must have the equivalent training and PPE as the on-site worker to gain entry. MSW Consultants is not responsible for distributing or obtaining PPE for visitors, or training visitors or client personnel on proper use of PPE, unless otherwise agreed to prior to the project.

## **2.5. PHYSICAL QUALIFICATION OF EMPLOYEES**

All personnel associated with the sampling and handling of the materials collected from the field for this project will be trained in their safe handling. All personnel involved in the performance of physical work will be physically fit and demonstrate their ability to perform their duties. The MSW Consultants Field Supervisor can prohibit any person from performing work at the site should there be a question as to their fitness for duty.

## **2.6. ROLES AND RESPONSIBILITIES**

### **2.6.1 CORPORATE SAFETY AND HEALTH MANAGERS**

MSW Consultants principals Walt Davenport and John Culbertson are responsible for the health and safety of all MSW Consultants employees. As officers of the company, their role entails:

- ◆ Oversee maintenance and implementation of the MSW Consultants Safety and Health Program;
- ◆ Provide project personnel with technical guidance for conducting field work in a safe and healthful manner;
- ◆ Assist with preparation, or review and approval of project health and safety documents;
- ◆ Assign adequate levels of support;
- ◆ Interact with contracts personnel to verify that subcontractors are informed and can meet MSW Consultants health and safety requirements for this work; and
- ◆ Conduct field audits, as necessary, in accordance with MSW Consultants policies and procedures, and to verify that action plans are developed to correct any deficiencies.

### **2.6.2 FIELD SUPERVISOR**

The Field Supervisor will be assigned on a project by project basis and will be trained and knowledgeable in the MSW Consultants SAHP as well as the host facility health and safety requirements. This position will be required to:

- ◆ Administer the SAHP for the specific project and coordinate any amendments to the SAHP with the MSW Consultants Health and Safety Managers;

# **SAFETY AND HEALTH PLAN**

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- ◆ Verify current certifications of individuals' fitness and training prior to authorizing access to areas where site control is established;
- ◆ Conduct emergency planning actions such as interfacing with emergency providers, assessing emergency supplies, assessing possible emergency needs;
- ◆ Verify availability of health and safety equipment on site in accordance with the SAHP;
- ◆ Verify that copies of plans and regulations are available at the site;
- ◆ Conduct employee health and safety orientations prior to the start of field activities;
- ◆ Monitor field activities;
- ◆ Establish and enforce site controls;
- ◆ Assist in independent health and safety site audits conducted by MSW Consultants Corporate Personnel, regulatory agencies, or the host solid waste management facility;
- ◆ Conduct accident investigations of injuries, illnesses, and near misses and to ensure the completion of associated documentation;
- ◆ Exercise "stop work authority" when an imminent hazard or potentially dangerous work practice exists; and
- ◆ Complete and submit recordkeeping forms mandated by the SAHP.

## **2.6.3 SUBCONTRACTORS**

MSW Consultants has historically relied on temporary light-industrial staffing agencies to supply the sorting laborers needed to perform the physical sorting of solid wastes. These laborers are required to perform the following:

- ◆ Attend site-specific orientation and safety meetings when participating in field work;
- ◆ Read, understand, and sign the training verification form that states "I have read, understood, and agree to abide by these safety and health policies and procedures," before working on site;
- ◆ Evaluate tasks to be performed and site-specific hazards; develop appropriate controls and supplement this SAHP, as required;
- ◆ Follow safe work procedures for this work that will address the specific hazards associated with the task to be performed for this work;
- ◆ Ensure that all employees are trained in the safe and proper use of all tools they may use;
- ◆ Ensure that all employees receive a safety orientation before beginning to work;
- ◆ Assure that all employees use all necessary personal protective equipment (PPE); and
- ◆ Promptly correct any unsafe conditions.

## **2.7. ACCIDENT REPORTING**

As soon as possible following an incident or emergency, the Field Supervisor, or his designee is to directly notify the MSW Consultants Corporate Safety and Health Manager, the host facility

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manager, the subcontractor contact (if applicable) and the client. The Field Supervisor should be prepared to provide the following information:

- ◆ Field Supervisor's name;
- ◆ Task name and task number;
- ◆ Exact location of incident;
- ◆ Name and employer of victim(s);
- ◆ Nature and extent of injuries;
- ◆ If victim(s) was transported off site for medical treatment, then name and address of medical facility and name of treating physician; and
- ◆ Telephone number where the Field Supervisor can be contacted during next 24 hours.

### **2.8. EMERGENCY PLANNING**

This section discusses the health and safety and emergency planning required for this project. If health and safety concerns arise during field activities, the following steps will be taken:

- ◆ Bring health and safety concerns to the attention of the host facility manager;
- ◆ If the host facility manager are unable to satisfactorily address concerns, bring the concerns to the attention of the MSW Consultants Corporate Safety and Health Manager;
- ◆ In the event of an incident or emergency, notify responsible personnel listed in this plan; and
- ◆ Discuss “stop work authority” for imminent danger situations.

## **3. SANITATION**

Waste composition field sorting events typically last for one or more weeks. Because they may be carried out in multiple locations—on the face of a landfill or within the confines of a transfer station or other waste management facility—, it may be necessary to consider providing specialty sanitary requirements at the job site.

### **3.1. DRINKING WATER**

Drinking water for the field work will be brought to the site and stored outside of the work area. It will not be brought within the work area, nor will it be accessed by any worker in a non-emergency situation without the worker first undergoing the proper decontamination procedure, as described elsewhere in this plan.

## **3.2. TOILETS AND WASHING FACILITIES**

If the host facility provides access to toilets, including washing facilities, within reasonable distance from the job site, such toilets will be used. If no such access is possible, portable toilet facilities, including washing capability, will be provided by MSW Consultants for field work. Portable toilet facilities will be located outside, but in close proximity to, the work area. Workers must first undergo decontamination before using portable toilet facilities.

MSW Consultants will also maintain anti-bacterial hand sanitizer for use outside the work area.

## **3.3. WASTE DISPOSAL**

To the extent wastes are generated by field operations, this waste will be disposed in the same manner as the removal of sorted samples.

## **3.4. VERMIN CONTROL**

MSW Consultants will comply with the vermin control measures in place at the host facility. This typically consists of maintaining daily site clean-up efforts, and requires that un-sorted samples be completely contained for overnight storage.

## **4. MEDICAL AND FIRST AID REQUIREMENTS**

This section discusses the first aid and medical requirements that are applicable for this work. Prior to start of work, arrangements shall be made for medical facilities and personnel to provide prompt attention to the injured and for consultation on occupational safety and health matters. Medical considerations include:

- ◆ An effective means of communication (hard-wired or cellular telephone, two-way radio, etc.) with 911 access or other emergency response source and transportation to effectively care for injured workers shall be provided. Communication devices shall be tested in the area of use to assure functionality.
- ◆ The telephone numbers and locations of physicians, hospitals, or ambulances shall be carried by the Field Supervisor at all times.

### **4.1. FIRST AID KITS**

First aid kits will be stored at locations where field work will be performed or in vehicles used to transport workers to the field. The kits will contain standard first aid supplies, including, but not limited to bandages and treatment for minor abrasions and strains and will comply with the criteria contained in American National Standards Institute (ANSI) Z308.1 in the ratio of one for every 25 persons or less. Distilled water or portable saline solution bottles will be taken to the field for emergency eye wash purposes.

First-aid kits shall be easily accessible to all workers, and each item maintained sterile. The contents of first-aid kits shall be checked by the employer prior to their use and at least weekly when work is in progress to ensure that expended items are replaced.

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## **4.2. FIRST AID STATIONS AND INFIRMARIES**

There are no first aid stations or infirmaries provided for this work, other than an eyewash station or a full supply of portable eye-wash bottles provided at by the Field Supervisor. Other than minor first aid procedures, all injuries or exposures will be treated by emergency personnel at off-site facilities.

If a medical emergency occurs, the Field Supervisor assumes charge until an ambulance arrives or until the injured person is admitted to the emergency room. Site personnel will prevent further injury by taking the following actions:

- ◆ If properly trained (including blood borne pathogen training) and properly equipped with appropriate PPE, initiate first aid and CPR, if needed.
- ◆ Call ambulance and hospital, as appropriate.
- ◆ Determine whether decontamination will make injury worse. If yes, seek medical treatment immediately.
- ◆ Make certain the injured person is accompanied to the emergency room by at least one field team member with the same employer.

## **5. PERSONAL PROTECTIVE EQUIPMENT (PPE)**

The purpose of personal protective clothing and equipment is to shield or isolate individuals from the hazards that may be encountered when engineering and other controls are not feasible or cannot provide adequate protection. Adherence to all prescribed controls is vital to minimize exposures.

PPE ensembles for site activities are defined by the EPA and OSHA. Either MSW Consultants or the subcontractor will supply appropriate PPE for their staff, as agreed prior to the field operations. PPE must conform to the requirements of this SAHP. Those not supplied with the proper PPE will not be allowed to work at the site. PPE will be inspected, tested, and used as required.

Employees shall be physically able and medically determined qualified to use the personal protective and safety equipment that may be required in their job duties. Employers shall ensure users of personal protective and safety equipment are trained to know the following: when PPE, and what types of PPE are necessary; how to properly don, doff, adjust, and wear PPE; limitations of the PPE; and proper care, inspection, testing, maintenance, useful life, storage, and disposal of the PPE.

Each affected employee shall demonstrate an understanding of this training and the ability to use PPE properly before being allowed to perform work requiring the use of PPE. When the employer has reason to believe that any affected employee who has been trained does not have the understanding and skill required for the task, the employer shall assure the employee receives the necessary retraining to acquire the appropriate skills.

Personal protective and safety equipment shall be inspected and maintained in serviceable and sanitary condition as recommended by the manufacturer. Defective or damaged equipment shall not be used and shall be removed from the work site to prevent accidental use. Most PPE required for waste composition projects is single-use only, with the intent of being discarded at the end of the day. For re-usable PPE, before being stored or reissued to another person, equipment shall be cleaned, disinfected, inspected, and repaired.

In general, MSW Consultants will comply with the PPE requirements of the host solid waste management facility. Such requirements supersede those described in this SAHP. However, MSW Consultants will require the following minimum PPE regardless of the host facility requirements

### 5.1. GLOVES

Gloves are required to be worn by every employee involved in the physical handling of waste, regardless of the requirements of the host facility. Municipal solid waste may contain materials that are sharp or chemically dangerous if contacted by skin. Appropriate gloves are critical to worker safety.

MSW Consultants has evaluated safety gloves available from the safety products industry. Based on extensive field and office testing, we have standardized on heavy duty neoprene gloves that are compliant with CFR 21 Parts 170-199. Our preferred glove is shown in Figure 5-1. While no glove will effectively prevent every puncture, this glove provides extremely high puncture resistance, as well as chemical protection for chemical processing, alkaline units at petroleum refineries, metal plating operations, haz-mat handling, haz-mat suits and for hazardous waste disposal. Although arguably overkill for handling municipal solid waste, we believe such precautions are appropriate.

Figure 5-1 MSW Consultants Preferred Glove



### 5.2. EYE PROTECTION

Eye protection will be worn by employees engaged in physical sorting of municipal solid waste. Eye protection equipment shall be distinctly marked to facilitate identification of the manufacturer. Every worker should know the location of the nearest eye wash station or the location of eye wash bottles prior to beginning work.

MSW Consultants has evaluated eye protection products available from the safety products industry. Based on extensive field and office testing, we have standardized our eye protection on the product shown in Figure 5-2. This product is compliant with ANSI Z87.1-1989, and features an optimal combination of protection, functionality, and comfort. The wraparound style has a hingeless frame system, a single lens design providing a continuous field of vision, and a dynamic shape that allows you to wear eyewear around your neck, on top of your head or over a hardhat. The gel temple sleeves and soft, secure gel nosepiece provide additional wearing comfort. A clip-on, breakaway

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retainer cord is included with every pair. The lens is constructed of impact-resistant polycarbonate lens filters out 99.9% of UV radiation, and includes a scratch-resistant coating.

**Figure 5-2 MSW Consultants Preferred Eye Protection**



### **5.3. RESPIRATORY PROTECTION**

Due to the non-hazardous levels of contaminants anticipated in handling municipal solid waste, respiratory protection is not required but will be offered to all employees. MSW Consultants has evaluated respiratory protection products available from the safety products industry. Based on extensive field and office testing, we have standardized our respiratory protection on the product shown in Figure 5-3. This product is National Institute for Occupational Safety and Health (NIOSH) approved. It conforms to facial contours, and comes in individual packages for ease of distribution and sanitary storage.

**Figure 5-3 MSW Consultants Preferred Respiratory Protection**





## 5.4. FOOTWEAR

Heavy-duty work boots with leather uppers are the minimum foot protection required to perform waste composition analysis. Although steel toes are not required, they are preferred. Employees (or subcontractors) not wearing the minimum foot protection shall not be allowed to enter the work site.

## 5.5. PROTECTIVE SUITS

Although not required, MSW Consultants will provide and encourage that all workers wear aprons or coveralls for the duration of physical sorting of wastes. For warm weather sorts, aprons are generally preferable because they allow greater airflow and help keep workers from overheating. For cold weather sorts, coveralls are preferred because they add a layer of warmth as well as barrier protection. Figure 5-4 shows a standard Tyvek coverall that may be worn in colder weather sorting events. These coveralls are available in a wide range of sizes, and meet sizing requirements of ANSI/ISEA 101-1996.

**Figure 5-4 Tyvek Coveralls**



## 5.6. OTHER PPE

Although not required by MSW Consultants when performing waste composition analysis, many host solid waste management facilities may require the following PPE:

- ◆ Reflective vests;
- ◆ Hard hats; and
- ◆ Hearing protection.

If required, these PPE items will be provided by MSW Consultants.

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## **6. HAZARDOUS SUBSTANCES AND ENVIRONMENTS**

The activities covered by this SAHP present potential chemical, biological, and physical hazards that may be encountered during the conduct of work. This SAHP is written to provide guidance on ways to eliminate or minimize exposure to these hazards and the steps to take if an exposure occurs.

### **6.1. HAZARDOUS SUBSTANCES**

Municipal solid waste by definition may not contain hazardous waste, with the exception of Household Hazardous Wastes (HHW) from residential generators, or commercial generators that dispose of HHW-like products at de minimus levels. Nonetheless, employees performing waste composition analysis must have an awareness of the possibility of these materials, which may include:

- ◆ Medical wastes from residential generators (e.g., sharps)
- ◆ Household poisons;
- ◆ Flammable chemicals; and
- ◆ Reactive agents.

Radioactive, biologically active, explosive and other highly hazardous materials are prohibited from being disposed as municipal solid waste, and to the extent these items are found during a waste composition study all sorting activities will be immediately postponed and the host facility management notified for removal of these wastes and site remediation.

This SAHP covers a wide variety of hazards known or suspected to exist or that are inherent to the process of waste management activities; however, unforeseen hazards may be present in the performance of these tasks. Hazards not covered by this SAHP specifically will be assessed by the Field Supervisor for the appropriate control measures to maximize worker, environment, and public safety.

### **6.2. HARMFUL PLANTS, ANIMALS, AND INSECTS**

Depending on the location of the waste composition analysis, it is possible that the potential exist to exposure to harmful plants, animals or insects. Poison ivy may be encountered on the periphery of some work areas, and could conceivably occur in the sample itself. It is identified as having dark green, somewhat shiny foliage with sets of three, pointed leaves. Protective clothing will be worn during the performance of field work. Outer garments can either be disposed or washed at the end of each day. Protective gloves will be worn. If encountered, do not touch or burn this plant. If exposure occurs, thoroughly wash the exposed area with soap and water within 10 minutes to remove the irritating oil.

Although a remote risk, outdoor work areas may be in areas where deer ticks live. Deer ticks can carry Lyme Disease. Evidence of exposure is the presence of a tic on the body or clothes. A small, red circular area will appear shortly after a bite. If exposed, contact a physician and save the offending tics, if possible, for analysis. Avoid dense woods and wear a hat and light-colored, protective clothing. Check body at the end of each field day for the presence of tics.

Mosquitoes are known carriers of the West Nile Virus and other diseases. For outdoor work areas, protective clothing, including long pants and shirts, will be worn to reduce the area of exposure.

There is a possibility for other harmful vermin to be present at the site, such as snakes. Level D Modified PPE requires that boots should be worn, as well as long pants, which will discourage exposure to snakes. Due caution should be exercised when performing field work.

### 6.3. INCLEMENT WEATHER AND ENVIRONMENTAL HAZARDS

Hazards presented by the natural work environment may include heat or cold stress, and inclement weather. When there are warnings or indications of impending severe weather (heavy rains, damaging winds, tornados, hurricanes, floods, lightning, etc.), weather conditions shall be monitored and appropriate precautions taken to protect personnel and property from the effects of the severe weather. Table 6-1 outlines exposure control methods for working in extreme temperatures and summarizes symptoms and treatment procedures for heat and cold stress.

**Table 6-1 Symptoms and Treatment of Heat and Cold Stress**

Conditions	Symptoms	Treatment
Heat stroke	Red, hot, dry skin; no perspiration; dizziness; confusion; rapid breathing and pulse; and high body temperature.	This is a MEDICAL EMERGENCY! Cool victim rapidly by soaking in cool (not cold) water. Loosen restrictive clothing. Get medical attention immediately!
Heat exhaustion	Pale, clammy, moist skin; shallow breathing; profuse sweating; weakness; normal temperature; headache; dizziness; and vomiting.	Move victim to a cool, air-conditioned area. Loosen clothing, place head in low position. Have victim drink cool (not cold) water.
Frostbite	Blanched, white, waxy skin, but resilient tissue; tissue cold and pale.	Move victim to a warm area. Warm area quickly in warm (not hot) water. Do not break any blisters. Elevate the injured area and get medical attention.
Hypothermia	Shivering, apathy, sleepiness; rapid drop in body temperature; glassy stare; slow pulse; and slow respiration.	Move victim to a warm area. Have victim drink warm fluids - not coffee or alcohol. Get medical attention.

In the event of adverse weather conditions, the Field Supervisor will evaluate whether work can continue without compromising the health and safety of site personnel. The Field Supervisor will direct the implementation of precautions necessary to ensure the health and safety of site personnel. A lightning watch will go into effect 30 minutes prior to thunderstorms being within a five nautical mile radius of an activity. During the watch, operations or activities may continue, however all personnel must be prepared to implement warning procedures without delay. Workers must be alert for any lightning activity, to include audible thunder, and advise supervisory personnel of any observations.

### 6.4. DECONTAMINATION

Decontamination protects workers, the public, and the environment by limiting exposure to harmful substances and by preventing the spread of contamination. The Field Supervisor will oversee personnel and equipment decontamination to determine its effectiveness, and take corrective actions

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to rectify any deficiencies. Table 6-2 presents the decontamination procedures that will be followed for personnel and equipment. Subcontractors are responsible for decontaminating their own equipment and personnel according to these procedures.

**Table 6-2 Decontamination Procedures**

<b>Item</b>	<b>Decontamination Procedure</b>
Sampling Table, Bins, and Tools	Pressure wash at the conclusion of the waste composition study in an area with leachate collection.
Personal – Mid day breaks	PPE shall be removed while the worker is in the work area. Employees shall wash hands and forearms in the washing facility supplied for the project.
Personal – End of Day	Hard hats, vests and eye protection shall be returned to the Field Supervisor for inspection and cleaning. Neoprene gloves shall be removed, inspected for tears and chemical damage, and if still in safe working condition, stored in the work area. Damaged gloves shall be replaced for subsequent work days. Tyvek suits, respirators, and ear plugs shall be discarded as solid waste. Employees shall wash hands and forearms in the washing facility supplied for the project.

## **6.5. PERSONNEL DECONTAMINATION**

All personnel exiting the sampling area will follow decontamination procedures. Under no circumstances (except emergency evacuation) will personnel be allowed to leave the work area before decontamination. The Field Supervisor may approve simplification of the procedures in the field when a determination has been made that decontamination procedures are unnecessary.

## **7. MATERIAL HANDLING**

Although waste composition project do not require extensive handling of heavy material, there is significant lifting and carrying that must be performed to complete the data collection. This section describes considerations in handling materials during the waste composition study.

### **7.1. LIFTING AND CARRYING**

Employees shall be trained in and shall use safe lifting techniques. When lifting:

- ◆ Reaching out to lift an object fights against gravity, and increases strain on the lower back. Stand close to the load to be lifted and spread your feet for balance.
- ◆ Be certain the weight being lifted is within your capabilities. Ask for assistance if needed.
- ◆ Bend your knees and keep your spine straight. Grasp the object to be lifted and keep it close to your body.
- ◆ Using your leg muscles, straighten your knees and stand.

When carrying:

- ◆ Always keep the object you are carrying close to your body.
- ◆ When changing directions, shift your feet. Don't twist the upper body.
- ◆ Try to avoid changing your grip while carrying the load.
- ◆ After reaching your destination, keep the object close to your body, keep the spine straight, and slowly bend the knees as you lower the object to the floor.

## **7.2. MATERIAL AND EQUIPMENT STORAGE**

To the extent it is necessary to store sampled wastes, the entire sample shall be contained by either temporary or permanent means. Permanent storage is preferred in containers with lids. In some instances, tarping of sampled material is acceptable, provided the tarp can fully contain the sampled waste and be weighted down to prevent removal by vermin or from winds.

Work site equipment shall be stacked, consolidated, and placed at ground level so that it is stable and secured against sliding or collapse.

## **7.3. HOUSEKEEPING**

Scrap, trash, and other wastes shall be placed in designated containers. Work areas shall be cleaned up as the job progresses. Cords and hoses shall be routed in a manner that will present no tripping hazard - preferably overhead. At a minimum, all tools, and equipment shall be stored in a stable position (tied, stacked, or chocked) to prevent rolling or falling. Tools and equipment will preferably be removed from the work site for secure storage in a vehicle overnight. A safe access way shall be maintained to all work areas and emergency exits.

## **7.4. MATERIAL DISPOSAL**

Waste generated onsite from field activities includes the sorted waste samples, PPE discards, and field trash. These wastes will be managed as non-hazardous, solid waste, and will be placed in the same receptacle being used to remove sorted waste samples.

Any HHW that is found in the samples wastes shall be stored and disposed according to host facility HHW collection policies. If no such policies exist, the HHW will be disposed with the remaining solid wastes.

At the request of the host facility, recyclable materials may be set aside for recovery by the host facility.

## **8. SITE CONTROL**

Effective site control procedures will reduce the potential safety and health risks to the workers on site. Site control includes the following safe work practices:

- ◆ Limiting work area access to essential personnel, both during work hours and off hours;
- ◆ Establishing work zones within the sampling and sorting areas, and restricting personnel entering work zones;

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- ◆ Establishing decontamination procedures for personnel and equipment; and
- ◆ Assuring that personnel may be accurately and quickly located and evacuated during an emergency.

As a general site control, alcoholic beverages, food, cigarettes, and other consumable products are prohibited in work areas at all times.

### **8.1. SAMPLING AREA CONTROLS**

An area at the host facility will be set aside for the oversight of vehicle load tipping and sampling of the tipped load. The sampling work area shall be controlled by:

- ◆ Delineating boundaries for the tipping of targeted loads of waste;
- ◆ Prohibiting entry into these boundaries by non-targeted truckloads;
- ◆ Providing for the safe queuing of material transport hoppers out of the way of collection vehicles and waste handling mobile equipment such as loaders or compactors; and
- ◆ Providing a storage location for a loader or bobcat that may be needed to transport samples.

Only the Field Supervisor or a trained sampling manager may enter into the sampling work area during the course of the project.

### **8.2. SORTING AREA CONTROLS**

An area at the host facility will be set aside for the performance of sorting and weighing sampled wastes. The sorting work area shall be controlled by:

- ◆ Setting aside a 20 foot by 20 foot space where the sort table and bins can be positioned;
- ◆ Providing additional space for queuing samples;
- ◆ Maintaining a consistent site configuration so that employees know the proper position of all equipment and materials; and
- ◆ Being established out of the way of any heavy machinery or equipment that may be in operation within the facility boundaries.

No personnel will enter or work in delineated work zones without proper training or an escort.

## **APPENDIX A – PLAN APPROVAL AND SIGN OFF**

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This Safety and Health Plan has been written for the exclusive use of MSW Consultants, its employees, and subcontractors. Although intended to be a generic plan that applies broadly to waste composition projects, it may require amendment for certain specific projects or facilities. Subcontractors are required to supplement this plan, as needed, to address specific tasks (and associated hazards) they may be performing.

The following signatures verify that the undersigned has either reviewed the written Plan or else has received training on relevant components of the Plan.

Project: Sims/DSNY 2012 Waste Characterization Study

Location: Site 2 Fresh Kills Landfill

Concurrence by: Mark Hart

Date: September 10, 2012

MSW Consultants Field Safety Office

### **Crew Signoff:**

“I have read, understood, and agree to abide by relevant sections of this SAHP.”

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

# APPENDIX A - PLAN APPROVAL AND SIGN OFF

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Project: \_\_\_\_\_ Location: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_



## ACCIDENT OR INJURY REPORT: Confidential



Date/Time Report Initiated: \_\_\_\_\_

*Information in this report is to be used for the prevention of accidents and is not intended as a basis for injury claims. In counting time lost, start with the first full day or shift lost after date of injury and do not include weekends and holidays.*

### GENERAL INFORMATION:

Type of Accident:
Location:
Weather Conditions: Sunny Clear Overcast Rain Snow Other:
Temperature: Below 32°F 32°-60° 60°-70° 70°-85° Over 85°F
Wind: Still Moderate High Stormy

### INJURED PERSONNEL:

Name:
Age: Title: Occupation:
Employer if Different from MSW Consultants:
How Long Employed: Remarks:

### NATURE AND PLACE OF INJURY:

Date and Time of injury:
Exact place where injury occurred:
If lost time/restricted duty resulted, date employee started losing time/restricted duty:
Did injury result in death or probable permanent disability?
Return to work date/full duty: (Estimated)
Date of death:
Calendar days lost time (Estimated):
Describe accident/ injury:

### IF INJURED PERSON IS EMPLOYED BY ANOTHER FIRM:

Date and Time injured personnel's employer was contacted:
Name of employer contact person:

Supervisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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**APPENDIX G**  
**HEALTH AND SAFETY PRESENTATION**

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**HEALTH AND SAFETY  
TRAINING FOR  
WASTE COMPOSITION ANALYSES**



### Overview

- Introduction
- Program Management
- Sanitation
- Medical and First Aid Requirements
- Personal Protective Equipment (PPE)
- Hazardous Substances and Environments
- Material Handling
- Site Control

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### The following practices are included in this presentation:

- Safety and health framework at host municipal solid waste facilities;
- Sampling hazard evaluation and controls;
- Sorting hazard evaluation and controls;
- Fundamental safe work practices including site controls;
- Personnel protective equipment (PPE) applicable the field work; and
- Emergency response procedures

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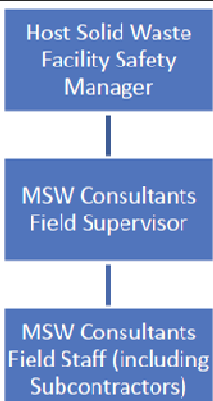
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### Safety and Health Plan Framework



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### TRAINING REQUIREMENTS

- Understanding the SAHP
- Personal protective equipment and use;
- Physical, chemical, and biological hazards and prevention;
- Site access and control;
- Roles and responsibilities;
- Accident prevention and reporting; and
- Emergency procedures.

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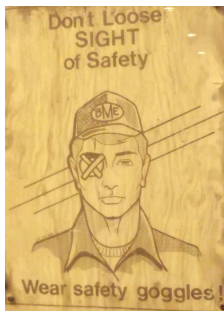
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### Expected Hazards

- Sharps
- Syringes
- Hazardous wastes
- Noxious odors
- Dehydration
- Strains
- Slips, Trips and Falls



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### At the sorting table:

- Don't throw material more than 6 inches
- Always wear PPE: glasses, gloves, tyvek
- Never reach in to pile or bag

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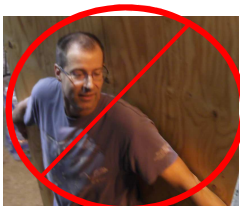
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### Physical Qualifications/Ergonomics

- Proper lifting techniques
- Regular stretching
- Know your limits



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### LIFTING AND CARRYING

Reaching out to lift an object fights against gravity, and increases strain on the lower back.

- Stand close to the load to be lifted and spread your feet for balance.
- Be certain the weight being lifted is within your capabilities. Ask for assistance if needed.
- Bend your knees and keep your spine straight. Grasp the object to be lifted and keep it close to your body.
- Using your leg muscles, straighten your knees and stand.

When carrying:

- Always keep the object you are carrying close to your body, **unless it is a bag of waste!**
- When changing directions, shift your feet. Don't twist the upper body.
- Try to avoid changing your grip while carrying the load.
- After reaching your destination, keep the object close to your body, keep the spine straight, and slowly bend the knees as you lower the object to the floor.

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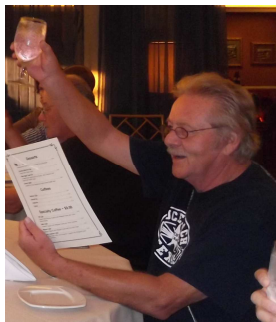
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### Hydration!

- Hydration starts before you leave for work
- Avoid caffeine and salty foods
- If you aren't hydrating, you are dehydrating!
- Wash your hands before grabbing a drink from the cooler. Every Time!



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### Sanitation

- Hand washing facilities provided at the portolets. Wash hands before and after using toilet.
- Do not drink water from hand washing sink.
- Men: use the mens portolet.

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### First Aid

- Report to Crew Chief, Mark or Supervisor. Eye wash equipment is available

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### Gloves



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**Hand Safety: Nevers**

- Never reach into a bag or container when you can't see the contents
- Never touch sample without two gloves, liner and vitrile glove
- Never lift bag or container (even seemingly rigid container) from the bottom.
- Never rub table or other surface which may contain broken glass with hands

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**Decontamination**

Personal – Mid-day breaks

- PPE shall be removed while the worker is in the work area. Employees shall wash hands and forearms in the washing facility supplied for the project.

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**Decontamination**

Personal – End of Day

- Hard hats, vests and eye protection shall be returned to the Field Supervisor for inspection and cleaning.
- Neoprene gloves shall be removed, inspected for tears and chemical damage, and if still in safe working condition, stored in the work area. Damaged gloves shall be replaced for subsequent work days.
- Tyvek suits, respirators, and ear plugs shall be discarded as solid waste.
- Employees shall wash hands and forearms in the washing facility supplied for the project.

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### Eye Protection

- Always wear safety glasses during sorting and handling waste/recyclables
- Rinse with soap and water if necessary and allow to air dry



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### Respiratory Protection

- Voluntary use
- See Mark for more information.



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### PROTECTIVE SUITS

- Suits or aprons required at sorting table
- If you're wearing a suit, increase hydration



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HARMFUL PLANTS, ANIMALS,  
AND INSECTS

- Poison Ivy, Oak
- Rats
- Cats
- Snakes



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Questions?  
Just Ask!

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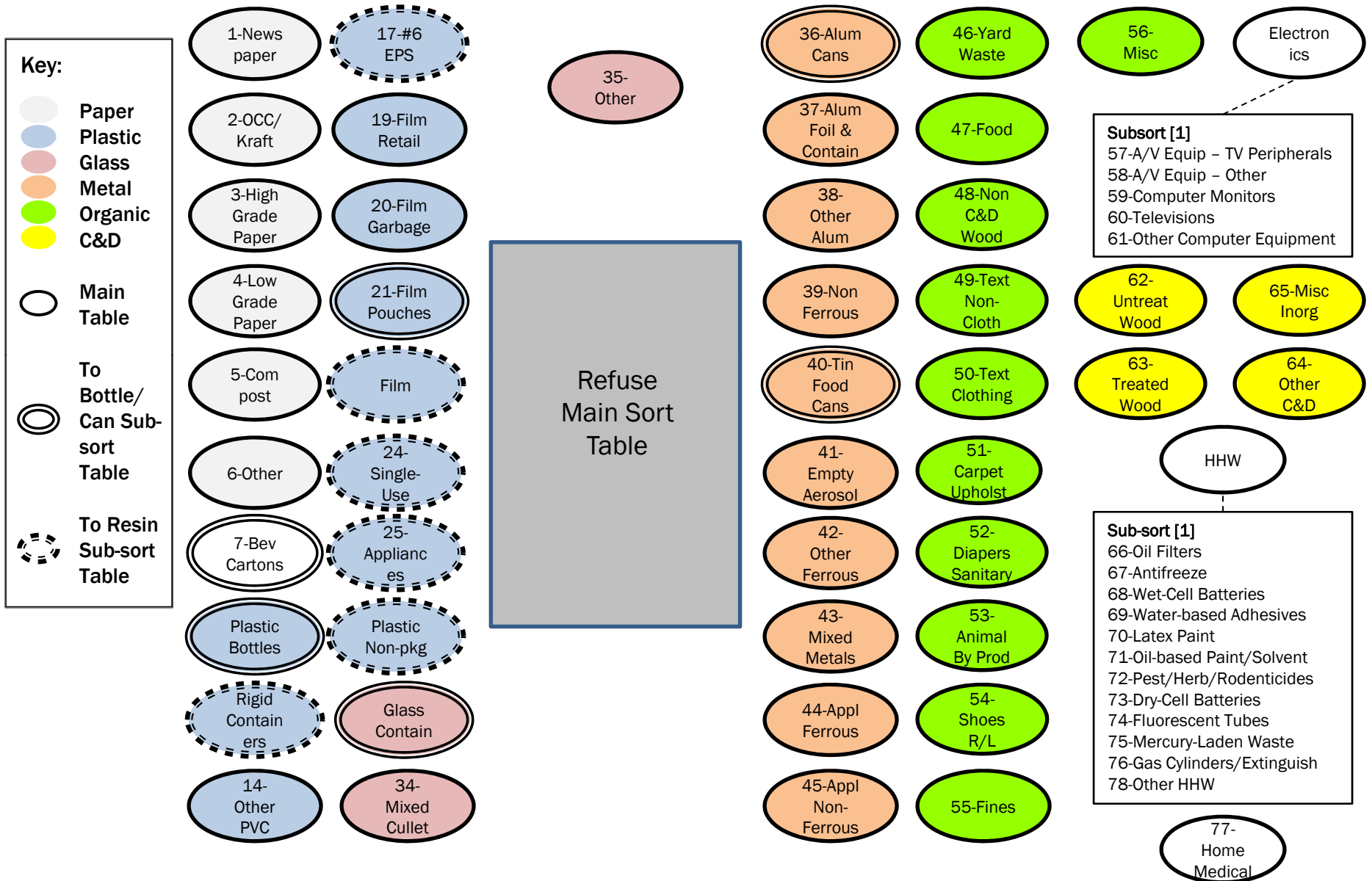
## APPENDIX H

### SORTING PROCEDURES

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## Exhibit H1a - Sorting Procedures Main Sort Table



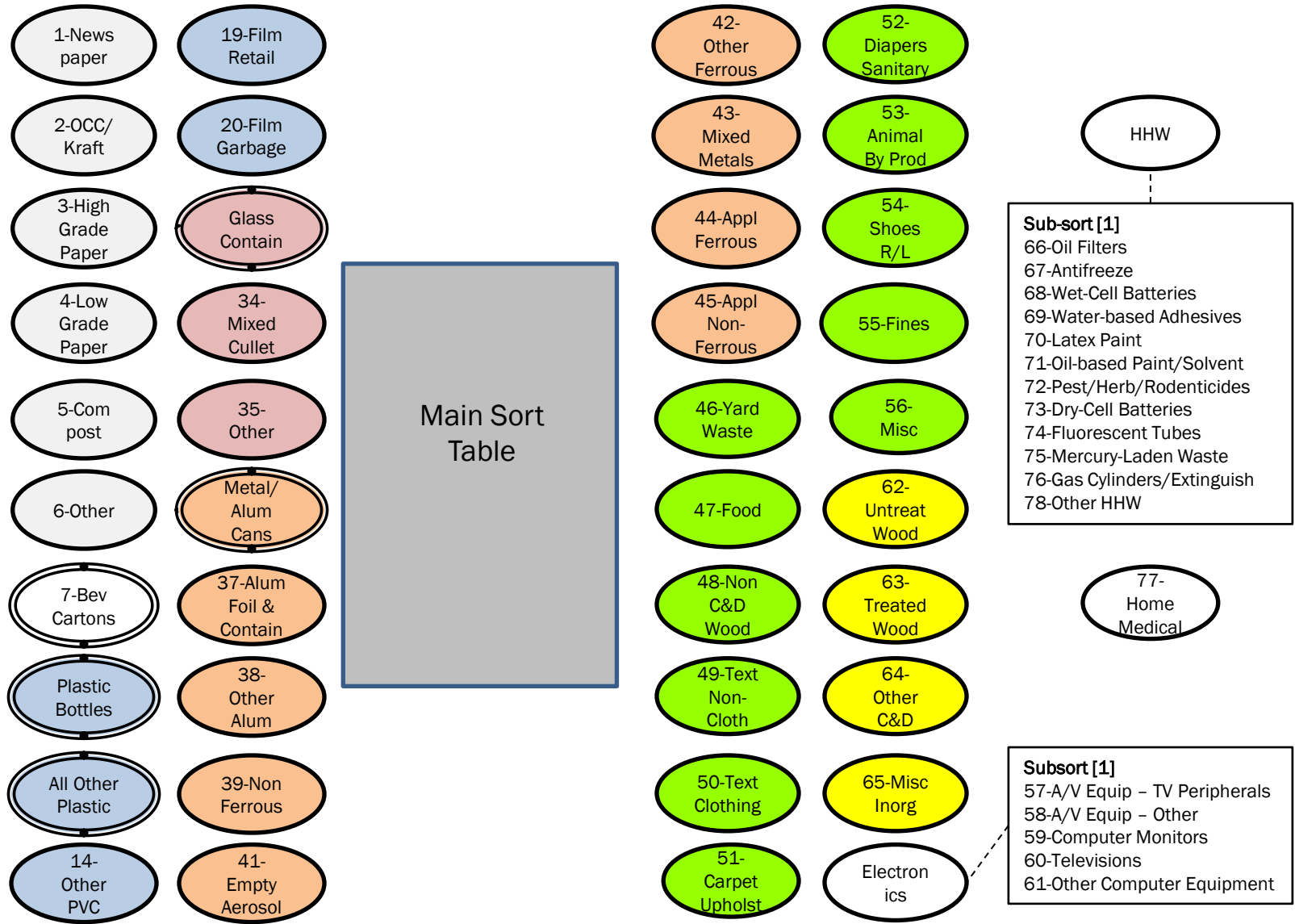
Notes:

[1] Sub-sorts to be performed as part of weigh-out procedure by assigned sorting staff.

# Exhibit H1b - Sorting Procedures, Paper Main Sort Table

**Key:**

- Paper
- Plastic
- Glass
- Metal
- Organic
- C&D
- Main Table
- To Sub-sort Table



**Notes:**

[1] Sub-sorts to be performed as part of weigh-out procedure by assigned sorting staff.

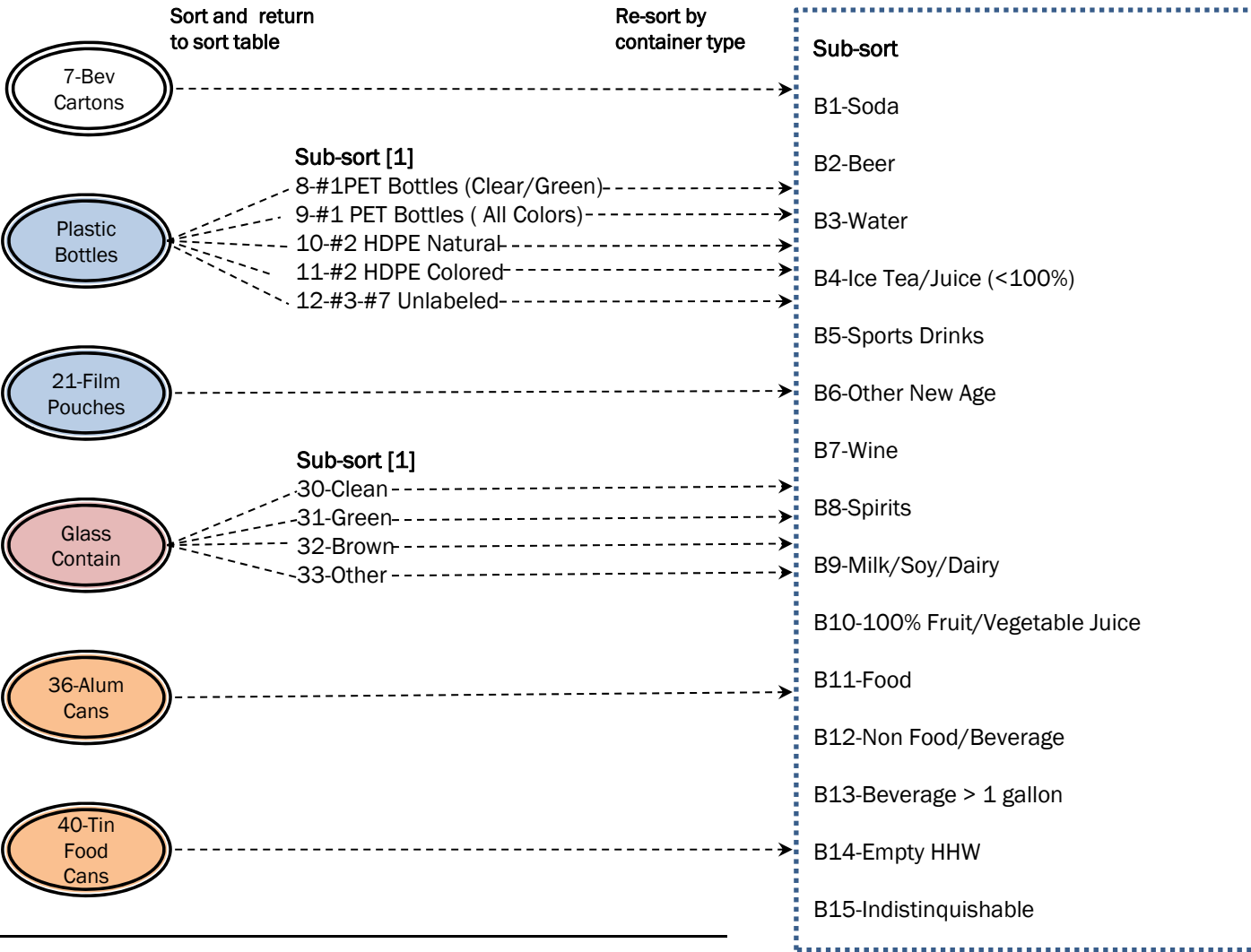


## Exhibit H2 - Sorting Procedures Bottle/Can/Carton Sub-sort Table

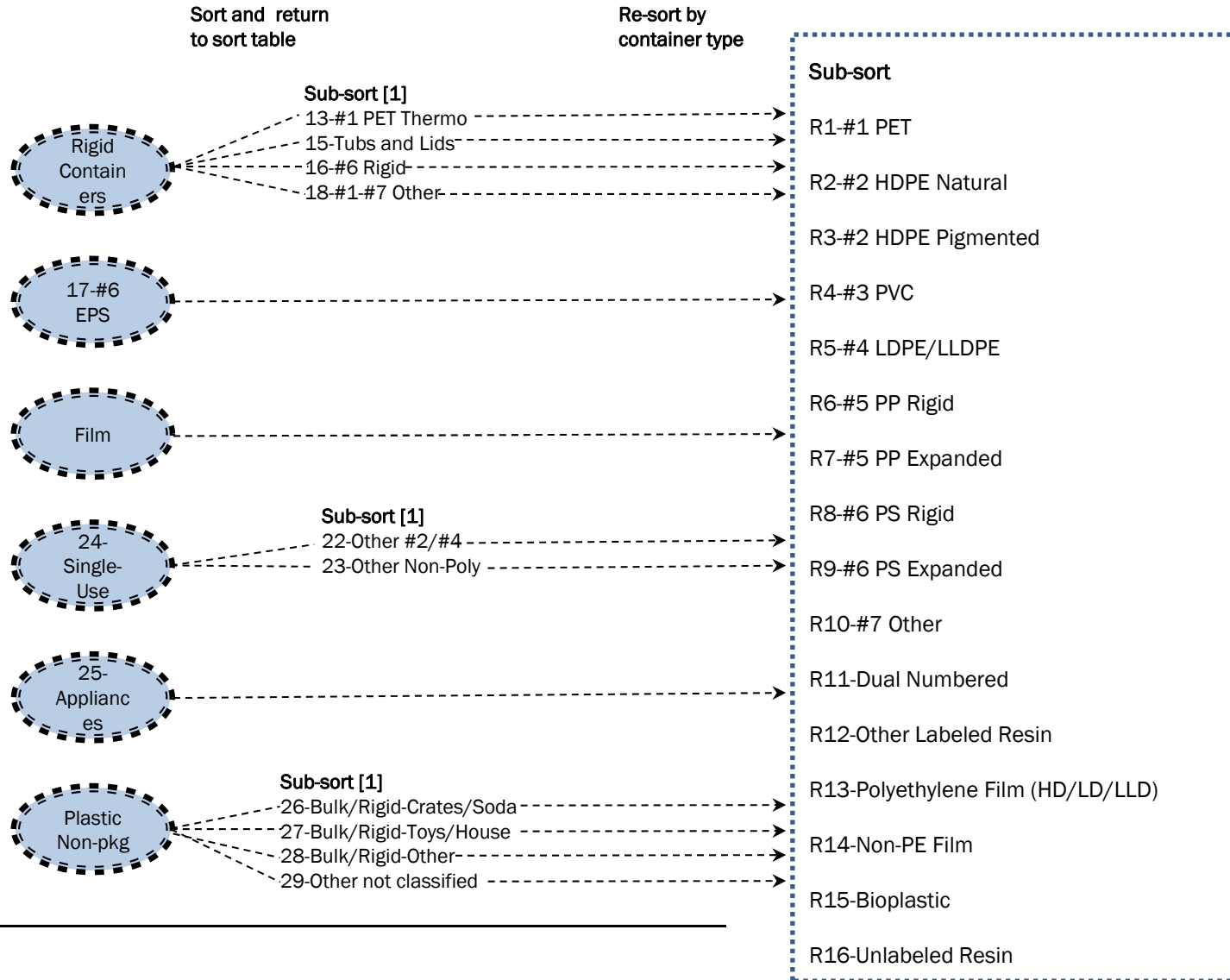
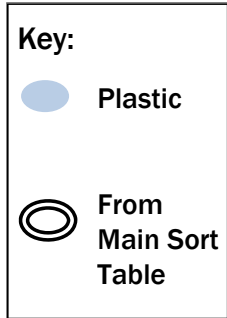
**Key:**

- Paper
- Plastic
- Glass
- Metal

From Main Sort Table



## Exhibit H3 - Sorting Procedures Resin Sub-sort Table



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**APPENDIX I**  
**SORTING FIELD FORMS**

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Sims/NYC 2012 Waste Characterization Study

**MAIN TABLE**

Sample Date: \_\_\_\_\_ Sort Manager: \_\_\_\_\_

Sort Date: \_\_\_\_\_ Crew Chief: \_\_\_\_\_

Borough: \_\_\_\_\_ District: \_\_\_\_\_ Section: \_\_\_\_\_ Day of Wk: \_\_\_\_\_ Route: \_\_\_\_\_ Circle: Paper MGP

Truck Number: \_\_\_\_\_ # of Carts: \_\_\_\_\_ Bulky? Yes No

No.	Category	Enter Weight (Circle if Net)		Sub
1	Newspaper			
2	Plain OCC/Kraft Paper			
3	High Grade Paper			
4	Mixed Low Grade Paper			
5	Compostable/Soiled/Waxed			
6	Other Nonrecyclable Paper			
7	Beverage Cartons/Aseptic	Beverage		
M	Plastic Bottles #1 - 7 & Unlabeled	Beverage		
M	Other Rigid Containers/Pkg <i>Includes 13) #1 PET Thermfrms, 16) #6 Rigid Polystyrene, 15) Tubs Lids &amp; 18) Other Packaging</i>	Resin		
14	Other PVC			
17	#6 EPS Containers/Pkg			
19	Film: Retail Bags/Sleeves	22	Film: Other PE Film (Resin)	
20	Film: Garbage Bags	23	Film: Non-PE Film (Resin)	
21	Film: Pouches	Beverage		
24	Single-Use Plates/Cups/Cutlery	Resin		
25	Appliances: Plastic	Resin		
M	Rigid Non-Packaging Plastic <i>Includes Bulk/Rigid Plastics, Other R/C Plastics</i>	Resin		

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Borough: District: Section: Day of Wk: Route: Circle: Paper MGP

M	Container Glass - All Colors	Beverage		
34	Mixed Cullet			
35	Other Glass			
36	Aluminum Cans	Beverage		
37	Aluminum Foil/Containers			
38	Other Aluminum			
39	Other Nonferrous			
40	Steel/Tin Food Cans	Beverage		
41	Empty Aerosol Cans			
42	Other Ferrous			
43	Mixed Metals			
44	Appliances: Ferrous	45	Appliances: Nonferrous	
46	Yard Waste			
47	Food			
48	Non-C&D Wood			
49	Textiles: Non-Clothing			
50	Textiles: Clothing			
51	Carpet/Upholstery			
52	Diapers/Sanitary Products			
53	Animal By-Products			
54	Shoes/ Rubber/ Leather			
55	Fines			
56	Miscellaneous Organics			
57	A/V Equip - TV Peripherals	60	Televisions	
58	A/V Equip - Other	61	Other Computer Equipment	
59	Computer Monitors			
62	Untreated Wood/Pallets/Crates			
63	Treated/Contaminated Wood			
64	Other C&D Debris			
65	Miscellaneous Inorganics			
66	Oil Filters	73	Dry-Cell Batteries:	
67	Antifreeze	74	Fluorescent Tubes/CFLs	
68	Wet-Cell Batteries	75	Mercury-Laden Wastes	
69	Water-Based Adhesives/Glues	76	Gas Cylinders/Extinguishers	
70	Latex Paint	77	Home Medical Products	
71	Oil-Based Paint/Solvent	78	Other HHW	
72	Pest/Herb/ Rodenticides			

**BEVERAGE**

Borough: \_\_\_\_\_ District: \_\_\_\_\_ Section: \_\_\_\_\_ Day of Wk: \_\_\_\_\_ Route: \_\_\_\_\_ Circle: Paper MGP Date: \_\_\_\_\_ Crew Chief \_\_\_\_\_

No.	Category	7) Carton/Asept	30) Clear Glass	31) Green Glass	32) Brown Glass	33) Other Color Glass	36) Alum Cans	40) Steel Cans
B1	Soda							
B2	Beer							
B3	Water							
B4	Iced Tea/Juice Drinks (<100%)							
B5	Sports Drinks							
B6	Other New Age Drinks							
B7	Wine							
B8	Spirits							
B9	Milk/Soy/Dairy							
B10	100% Fruit and Vegetable Juices							
B11	Food							
B12	Non-food/Non-beverage							
B13	Beverage > 1 gallon							
B14	Empty HHW							
B15	Indistinguishable							

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





Sims/NYC 2012 Waste Characterization Study

RESIN

Borough: \_\_\_\_\_ District: \_\_\_\_\_ Section: \_\_\_\_\_ Day of Wk: \_\_\_\_\_ Route: \_\_\_\_\_ Circle: Paper MGP Date: \_\_\_\_\_ Crew Chief \_\_\_\_\_

No.	Category	15) Tubs/Lids Caps	16/18) Rigid Contrnr/Pkg	24) Single Use Plates	25) Applnce: Plastic	26) Crates/ Soda Carrier	27) Toys/ Housewares	28) Other Durable	29) Other Plastics
R1	#1 PET								
R2	#2 HDPE Natural								
R3	#2 HDPE Pigmented								
R4	#3 PVC								
R5	#4 LDPE/LLDPE								
R6	#5 PP Rigid								
R7	#5 PP Expanded								
R8	#6 PS Rigid								
R9	#6 PS Expanded								
R10	#7 Other								
R11	Dual Numbered								
R12	Other Labeled Resin								
R13	Polyethylene Film (HD/LD/LLD)								
R14	Non-PE Film								
R15	Bioplastic								
R16	Unlabeled Resin								

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Borough: District: Section: Day of Wk: Route: Circle: Paper MGP								
No.	Category	13) #1 PET Thermoforms	22) #2/#4 PE Film	23) Other Film(NonPE)				
R1	#1 PET							
R2	#2 HDPE Natural							
R3	#2 HDPE Pigmented							
R4	#3 PVC							
R5	#4 LDPE/LLDPE							
R6	#5 PP Rigid							
R7	#5 PP Expanded							
R8	#6 PS Rigid							
R9	#6 PS Expanded							
R10	#7 Other							
R11	Dual Numbered							
R12	Other Labeled Resin							
R13	Polyethylene Film (HD/LD/LLD)							
R14	Non-PE Film							
R15	Bioplastic							
R16	Unlabeled Resin							

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

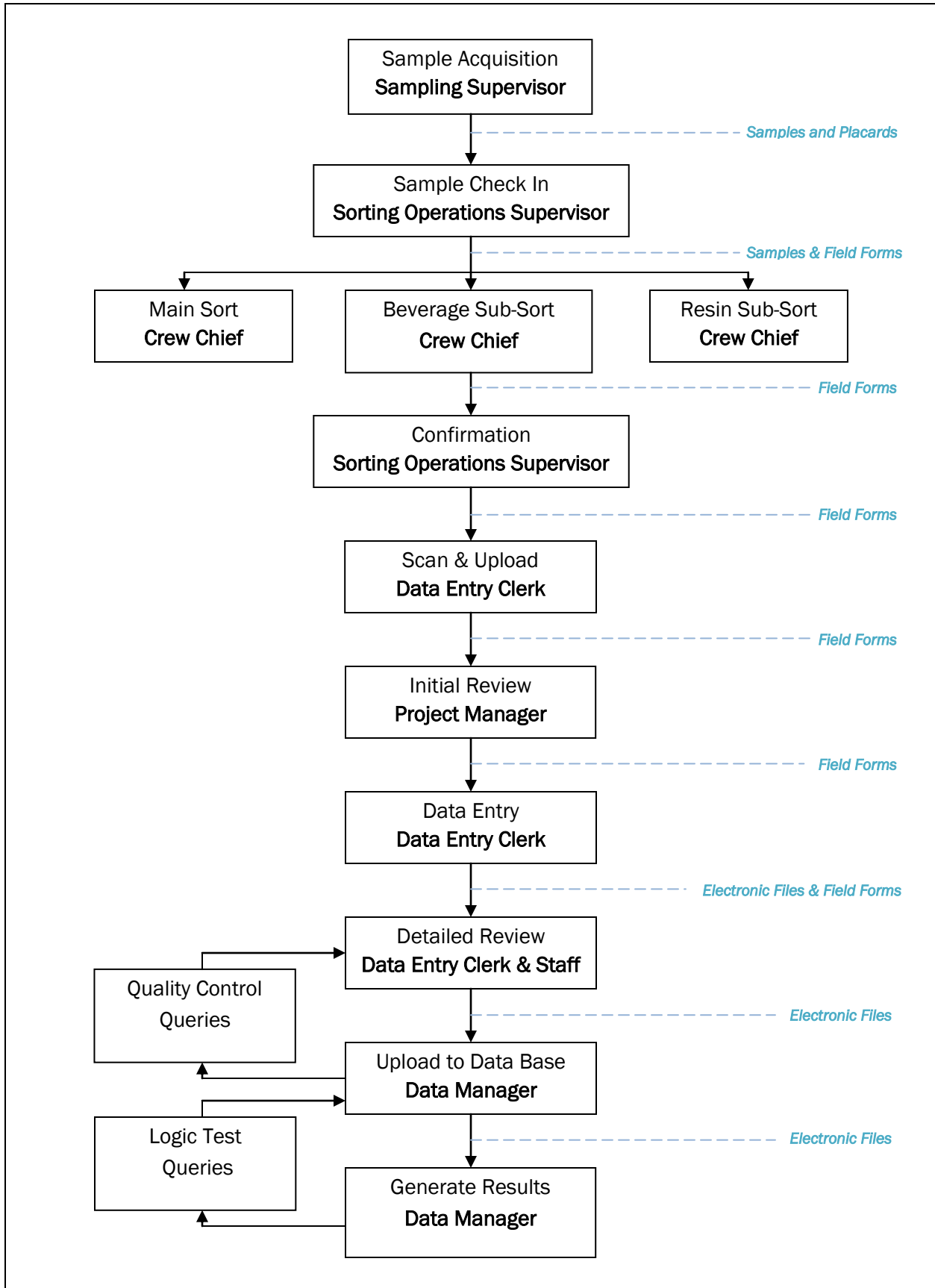
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**APPENDIX J**  
**CHAIN OF CUSTODY**

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# Exhibit J – 1 Sorting Field Form Chain of Custody



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**APPENDIX K**  
**RESULTS TABLES**

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**Exhibit 1 Index of 2013 WCS Results Tables and Figures**

File Prefix	Exhibit	Measure	Units	Population	Stream(s)
00	1	Summary List of 2013 WCS Results Tables			
01	2	Annual DSNY Curbside Waste Collection Quantities	Tons	Boroughs, Citywide	All
02	3	Samples Collected	Count	Boroughs, Citywide	All
03	4a	Composition and Quantities with 90% CI, by material type	%, Tons	Citywide	MGP
04	4b	Composition and Quantities with 90% CI, by material type	%, Tons	Citywide	Paper
05	4c	Composition and Quantities with 90% CI, by material type	%, Tons	Citywide	Refuse
06	4d	Composition and Quantities with 90% CI, by material type	%, Tons	Citywide	Aggregate
03	5a	Top 10 Materials	%, Tons	Citywide	MGP
04	5b	Top 10 Materials	%, Tons	Citywide	Paper
05	5c	Top 10 Materials	%, Tons	Citywide	Refuse
06	5d	Top 10 Materials	%, Tons	Citywide	Aggregate
03	6a	Bottles/Cans/Cartons Subsort Results: Absolute Composition, Percentage	%	Citywide	MGP
03	6b	Bottles/Cans/Cartons Subsort Results: Absolute Composition, Tons	Tons	Citywide	MGP
03	6c	Bottles/Cans/Cartons Subsort Results: Container Type Breakdown by Product Type	%	Citywide	MGP
03	6d	Bottles/Cans/Cartons Subsort Results: Product Type Breakdown by Container Type	%	Citywide	MGP
04	7a	Bottles/Cans/Cartons Subsort Results: Absolute Composition, Percentage	%	Citywide	Paper
04	7b	Bottles/Cans/Cartons Subsort Results: Absolute Composition, Tons	Tons	Citywide	Paper
04	7c	Bottles/Cans/Cartons Subsort Results: Container Type Breakdown by Product Type	%	Citywide	Paper
04	7d	Bottles/Cans/Cartons Subsort Results: Product Type Breakdown by Container Type	%	Citywide	Paper
05	8a	Bottles/Cans/Cartons Subsort Results: Absolute Composition, Percentage	%	Citywide	Refuse
05	8b	Bottles/Cans/Cartons Subsort Results: Absolute Composition, Tons	Tons	Citywide	Refuse
05	8c	Bottles/Cans/Cartons Subsort Results: Container Type Breakdown by Product Type	%	Citywide	Refuse
05	8d	Bottles/Cans/Cartons Subsort Results: Product Type Breakdown by Container Type	%	Citywide	Refuse
06	9a	Bottles/Cans/Cartons Subsort Results: Absolute Composition, Percentage	%	Citywide	Aggregate
06	9b	Bottles/Cans/Cartons Subsort Results: Absolute Composition, Tons	Tons	Citywide	Aggregate
06	9c	Bottles/Cans/Cartons Subsort Results: Container Type Breakdown by Product Type	%	Citywide	Aggregate
06	9d	Bottles/Cans/Cartons Subsort Results: Product Type Breakdown by Container Type	%	Citywide	Aggregate
03	10a	Resin Type Subsort Results: Absolute Composition, Percentage	%	Citywide	MGP
03	10b	Resin Type Subsort Results: Absolute Composition, Tons	Tons	Citywide	MGP
03	10c	Resin Type Subsort Results: Resin Type Breakdown by Plastic Subcategory Type	%	Citywide	MGP
03	10d	Resin Type Subsort Results: Plastic Subcategory Type Breakdown by Resin Type	%	Citywide	MGP
04	11a	Resin Type Subsort Results: Absolute Composition, Percentage	%	Citywide	Paper
04	11b	Resin Type Subsort Results: Absolute Composition, Tons	Tons	Citywide	Paper
04	11c	Resin Type Subsort Results: Resin Type Breakdown by Plastic Subcategory Type	%	Citywide	Paper
04	11d	Resin Type Subsort Results: Plastic Subcategory Type Breakdown by Resin Type	%	Citywide	Paper
05	12a	Resin Type Subsort Results: Absolute Composition, Percentage	%	Citywide	Refuse
05	12b	Resin Type Subsort Results: Absolute Composition, Tons	Tons	Citywide	Refuse
05	12c	Resin Type Subsort Results: Resin Type Breakdown by Plastic Subcategory Type	%	Citywide	Refuse
05	12d	Resin Type Subsort Results: Plastic Subcategory Type Breakdown by Resin Type	%	Citywide	Refuse

**Exhibit 1 Index of 2013 WCS Results Tables and Figures**

File Prefix	Exhibit	Measure	Units	Population	Stream(s)
06	13a	Resin Type Subsort Results: Absolute Composition, Percentage	%	Citywide	Aggregate
06	13b	Resin Type Subsort Results: Absolute Composition, Tons	Tons	Citywide	Aggregate
06	13c	Resin Type Subsort Results: Resin Type Breakdown by Plastic Subcategory Type	%	Citywide	Aggregate
06	13d	Resin Type Subsort Results: Plastic Subcategory Type Breakdown by Resin Type	%	Citywide	Aggregate
07	14a	Capture Rate for Recyclables, All Bottles	%	Citywide	Aggregate
07	14b	Capture Rate for Recyclables, All Rigids	%	Citywide	Aggregate
28	15a	Refuse in Recyclables: MGP Contamination	%, Tons	Citywide	MGP
28	15b	Refuse in Recyclables: Paper Contamination	%, Tons	Citywide	Paper
29	16	Recyclables in the Refuse: Potential Recycling	%, Tons	Citywide	Refuse
08	17a	Composition and Quantities with 90% CI, by material type	%, Tons	Bronx	MGP
09	17b	Composition and Quantities with 90% CI, by material type	%, Tons	Brooklyn	MGP
10	17c	Composition and Quantities with 90% CI, by material type	%, Tons	Manhattan	MGP
11	17d	Composition and Quantities with 90% CI, by material type	%, Tons	Queens	MGP
12	17e	Composition and Quantities with 90% CI, by material type	%, Tons	Staten Island	MGP
13	18a	Composition and Quantities with 90% CI, by material type	%, Tons	Bronx	Paper
14	18b	Composition and Quantities with 90% CI, by material type	%, Tons	Brooklyn	Paper
15	18c	Composition and Quantities with 90% CI, by material type	%, Tons	Manhattan	Paper
16	18d	Composition and Quantities with 90% CI, by material type	%, Tons	Queens	Paper
17	18e	Composition and Quantities with 90% CI, by material type	%, Tons	Staten Island	Paper
18	19a	Composition and Quantities with 90% CI, by material type	%, Tons	Bronx	Refuse
19	19b	Composition and Quantities with 90% CI, by material type	%, Tons	Brooklyn	Refuse
20	19c	Composition and Quantities with 90% CI, by material type	%, Tons	Manhattan	Refuse
21	19d	Composition and Quantities with 90% CI, by material type	%, Tons	Queens	Refuse
22	19e	Composition and Quantities with 90% CI, by material type	%, Tons	Staten Island	Refuse
23	20a	Composition and Quantities with 90% CI, by material type	%, Tons	Bronx	Aggregate
24	20b	Composition and Quantities with 90% CI, by material type	%, Tons	Brooklyn	Aggregate
25	20c	Composition and Quantities with 90% CI, by material type	%, Tons	Manhattan	Aggregate
26	20d	Composition and Quantities with 90% CI, by material type	%, Tons	Queens	Aggregate
27	20e	Composition and Quantities with 90% CI, by material type	%, Tons	Staten Island	Aggregate
08	21a	Top 10 Materials	%, Tons	Bronx	MGP
09	21b	Top 10 Materials	%, Tons	Brooklyn	MGP
10	21c	Top 10 Materials	%, Tons	Manhattan	MGP
11	21d	Top 10 Materials	%, Tons	Queens	MGP
12	21e	Top 10 Materials	%, Tons	Staten Island	MGP
13	22a	Top 10 Materials	%, Tons	Bronx	Paper
14	22b	Top 10 Materials	%, Tons	Brooklyn	Paper
15	22c	Top 10 Materials	%, Tons	Manhattan	Paper
16	22d	Top 10 Materials	%, Tons	Queens	Paper
17	22e	Top 10 Materials	%, Tons	Staten Island	Paper

**Exhibit 1 Index of 2013 WCS Results Tables and Figures**

File Prefix	Exhibit	Measure	Units	Population	Stream(s)
18	23a	Top 10 Materials	%,Tons	Bronx	Refuse
19	23b	Top 10 Materials	%,Tons	Brooklyn	Refuse
20	23c	Top 10 Materials	%,Tons	Manhattan	Refuse
21	23d	Top 10 Materials	%,Tons	Queens	Refuse
22	23e	Top 10 Materials	%,Tons	Staten Island	Refuse
23	24a	Top 10 Materials	%,Tons	Bronx	Aggregate
24	24b	Top 10 Materials	%,Tons	Brooklyn	Aggregate
25	24c	Top 10 Materials	%,Tons	Manhattan	Aggregate
26	24d	Top 10 Materials	%,Tons	Queens	Aggregate
27	24e	Top 10 Materials	%,Tons	Staten Island	Aggregate
08	25a	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Bronx	MGP
09	25b	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Brooklyn	MGP
10	25c	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Manhattan	MGP
11	25d	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Queens	MGP
12	25e	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Staten Island	MGP
13	26a	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Bronx	Paper
14	26b	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Brooklyn	Paper
15	26c	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Manhattan	Paper
16	26d	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Queens	Paper
17	26e	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Staten Island	Paper
18	27a	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Bronx	Refuse
19	27b	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Brooklyn	Refuse
20	27c	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Manhattan	Refuse
21	27d	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Queens	Refuse
22	27e	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Staten Island	Refuse
23	28a	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Bronx	Aggregate
24	28b	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Brooklyn	Aggregate
25	28c	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Manhattan	Aggregate
26	28d	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Queens	Aggregate
27	28e	Bottles/Cans/Cartons Subsort Results: Absolute Composition	%,Tons	Staten Island	Aggregate
08	29a	Resin Type Subsort Results: Absolute Composition	%,Tons	Bronx	MGP
09	29b	Resin Type Subsort Results: Absolute Composition	%,Tons	Brooklyn	MGP
10	29c	Resin Type Subsort Results: Absolute Composition	%,Tons	Manhattan	MGP
11	29d	Resin Type Subsort Results: Absolute Composition	%,Tons	Queens	MGP
12	29e	Resin Type Subsort Results: Absolute Composition	%,Tons	Staten Island	MGP
13	30a	Resin Type Subsort Results: Absolute Composition	%,Tons	Bronx	Paper
14	30b	Resin Type Subsort Results: Absolute Composition	%,Tons	Brooklyn	Paper
15	30c	Resin Type Subsort Results: Absolute Composition	%,Tons	Manhattan	Paper
16	30d	Resin Type Subsort Results: Absolute Composition	%,Tons	Queens	Paper

**Exhibit 1 Index of 2013 WCS Results Tables and Figures**

File Prefix	Exhibit	Measure	Units	Population	Stream(s)
17	30e	Resin Type Subsort Results: Absolute Composition	%,Tons	Staten Island	Paper
18	31a	Resin Type Subsort Results: Absolute Composition	%,Tons	Bronx	Refuse
19	31b	Resin Type Subsort Results: Absolute Composition	%,Tons	Brooklyn	Refuse
20	31c	Resin Type Subsort Results: Absolute Composition	%,Tons	Manhattan	Refuse
21	31d	Resin Type Subsort Results: Absolute Composition	%,Tons	Queens	Refuse
22	31e	Resin Type Subsort Results: Absolute Composition	%,Tons	Staten Island	Refuse
23	32a	Resin Type Subsort Results: Absolute Composition	%,Tons	Bronx	Aggregate
24	32b	Resin Type Subsort Results: Absolute Composition	%,Tons	Brooklyn	Aggregate
25	32c	Resin Type Subsort Results: Absolute Composition	%,Tons	Manhattan	Aggregate
26	32d	Resin Type Subsort Results: Absolute Composition	%,Tons	Queens	Aggregate
27	32e	Resin Type Subsort Results: Absolute Composition	%,Tons	Staten Island	Aggregate
28	33	Refuse in Recyclables: MGP	%, Tons	All Boroughs	MGP
28	34	Refuse in Recyclables: Paper	%, Tons	All Boroughs	Paper
29	35	Recyclables in the Refuse	%, Tons	All Boroughs	Refuse
07	36a	Capture Rate for Recyclables, All Bottles	%	Bronx	Aggregate
07	36b	Capture Rate for Recyclables, All Bottles	%	Brooklyn	Aggregate
07	36c	Capture Rate for Recyclables, All Bottles	%	Manhattan	Aggregate
07	36d	Capture Rate for Recyclables, All Bottles	%	Queens	Aggregate
07	36e	Capture Rate for Recyclables, All Bottles	%	Staten Island	Aggregate
07	37a	Capture Rate for Recyclables, All Rigids	%	Bronx	Aggregate
07	37b	Capture Rate for Recyclables, All Rigids	%	Brooklyn	Aggregate
07	37c	Capture Rate for Recyclables, All Rigids	%	Manhattan	Aggregate
07	37d	Capture Rate for Recyclables, All Rigids	%	Queens	Aggregate
07	37e	Capture Rate for Recyclables, All Rigids	%	Staten Island	Aggregate

**Exhibit 1 Index of 2013 WCS Results Tables and Figures**

File Prefix	Exhibit	Measure	Units	Population	Stream(s)
06	13b	Resin Type Subsort Results: Absolute Composition, Tons	Tons	Citywide	Aggregate
06	13c	Resin Type Subsort Results: Resin Type Breakdown by Plastic Subcategory Type	%	Citywide	Aggregate
06	13d	Resin Type Subsort Results: Plastic Subcategory Type Breakdown by Resin Type	%	Citywide	Aggregate
07	14a	Capture Rate for Recyclables, All Bottles	%	Citywide	Aggregate
07	14b	Capture Rate for Recyclables, All Rigids	%	Citywide	Aggregate
28	15a	Refuse in Recyclables: MGP Contamination	%, Tons	Citywide	MGP
28	15b	Refuse in Recyclables: Paper Contamination	%, Tons	Citywide	Paper
29	16	Recyclables in the Refuse: Potential Recycling	%, Tons	Citywide	Refuse
08	17a	Composition and Quantities with 90% CI, by material type	%, Tons	Bronx	MGP
09	17b	Composition and Quantities with 90% CI, by material type	%, Tons	Brooklyn	MGP
10	17c	Composition and Quantities with 90% CI, by material type	%, Tons	Manhattan	MGP
11	17d	Composition and Quantities with 90% CI, by material type	%, Tons	Queens	MGP
12	17e	Composition and Quantities with 90% CI, by material type	%, Tons	Staten Island	MGP
13	18a	Composition and Quantities with 90% CI, by material type	%, Tons	Bronx	Paper
14	18b	Composition and Quantities with 90% CI, by material type	%, Tons	Brooklyn	Paper
15	18c	Composition and Quantities with 90% CI, by material type	%, Tons	Manhattan	Paper
16	18d	Composition and Quantities with 90% CI, by material type	%, Tons	Queens	Paper
17	18e	Composition and Quantities with 90% CI, by material type	%, Tons	Staten Island	Paper
18	19a	Composition and Quantities with 90% CI, by material type	%, Tons	Bronx	Refuse
19	19b	Composition and Quantities with 90% CI, by material type	%, Tons	Brooklyn	Refuse
20	19c	Composition and Quantities with 90% CI, by material type	%, Tons	Manhattan	Refuse
21	19d	Composition and Quantities with 90% CI, by material type	%, Tons	Queens	Refuse
22	19e	Composition and Quantities with 90% CI, by material type	%, Tons	Staten Island	Refuse
23	20a	Composition and Quantities with 90% CI, by material type	%, Tons	Bronx	Aggregate
24	20b	Composition and Quantities with 90% CI, by material type	%, Tons	Brooklyn	Aggregate
25	20c	Composition and Quantities with 90% CI, by material type	%, Tons	Manhattan	Aggregate
26	20d	Composition and Quantities with 90% CI, by material type	%, Tons	Queens	Aggregate
27	20e	Composition and Quantities with 90% CI, by material type	%, Tons	Staten Island	Aggregate
08	21a	Top 10 Materials	%, Tons	Bronx	MGP
09	21b	Top 10 Materials	%, Tons	Brooklyn	MGP
10	21c	Top 10 Materials	%, Tons	Manhattan	MGP
11	21d	Top 10 Materials	%, Tons	Queens	MGP
12	21e	Top 10 Materials	%, Tons	Staten Island	MGP
13	22a	Top 10 Materials	%, Tons	Bronx	Paper
14	22b	Top 10 Materials	%, Tons	Brooklyn	Paper
15	22c	Top 10 Materials	%, Tons	Manhattan	Paper
16	22d	Top 10 Materials	%, Tons	Queens	Paper
17	22e	Top 10 Materials	%, Tons	Staten Island	Paper
18	23a	Top 10 Materials	%, Tons	Bronx	Refuse
19	23b	Top 10 Materials	%, Tons	Brooklyn	Refuse

**Exhibit 1 Index of 2013 WCS Results Tables and Figures**

File Prefix	Exhibit	Measure	Units	Population	Stream(s)
20	23c	Top 10 Materials	%, Tons	Manhattan	Refuse
21	23d	Top 10 Materials	%, Tons	Queens	Refuse
22	23e	Top 10 Materials	%, Tons	Staten Island	Refuse
23	24a	Top 10 Materials	%, Tons	Bronx	Aggregate
24	24b	Top 10 Materials	%, Tons	Brooklyn	Aggregate
25	24c	Top 10 Materials	%, Tons	Manhattan	Aggregate
26	24d	Top 10 Materials	%, Tons	Queens	Aggregate
27	24e	Top 10 Materials	%, Tons	Staten Island	Aggregate
08	25a	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Bronx	MGP
09	25b	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Brooklyn	MGP
10	25c	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Manhattan	MGP
11	25d	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Queens	MGP
12	25e	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Staten Island	MGP
13	26a	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Bronx	Paper
14	26b	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Brooklyn	Paper
15	26c	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Manhattan	Paper
16	26d	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Queens	Paper
17	26e	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Staten Island	Paper
18	27a	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Bronx	Refuse
19	27b	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Brooklyn	Refuse
20	27c	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Manhattan	Refuse
21	27d	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Queens	Refuse
22	27e	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Staten Island	Refuse
23	28a	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Bronx	Aggregate
24	28b	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Brooklyn	Aggregate
25	28c	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Manhattan	Aggregate
26	28d	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Queens	Aggregate
27	28e	Bottles/Cans/Cartson Subsort Results: Absolute Composition	%,Tons	Staten Island	Aggregate
08	29a	Resin Type Subsort Results: Absolute Composition	%,Tons	Bronx	MGP
09	29b	Resin Type Subsort Results: Absolute Composition	%,Tons	Brooklyn	MGP
10	29c	Resin Type Subsort Results: Absolute Composition	%,Tons	Manhattan	MGP
11	29d	Resin Type Subsort Results: Absolute Composition	%,Tons	Queens	MGP
12	29e	Resin Type Subsort Results: Absolute Composition	%,Tons	Staten Island	MGP
13	30a	Resin Type Subsort Results: Absolute Composition	%,Tons	Bronx	Paper
14	30b	Resin Type Subsort Results: Absolute Composition	%,Tons	Brooklyn	Paper
15	30c	Resin Type Subsort Results: Absolute Composition	%,Tons	Manhattan	Paper
16	30d	Resin Type Subsort Results: Absolute Composition	%,Tons	Queens	Paper
17	30e	Resin Type Subsort Results: Absolute Composition	%,Tons	Staten Island	Paper
18	31a	Resin Type Subsort Results: Absolute Composition	%,Tons	Bronx	Refuse
19	31b	Resin Type Subsort Results: Absolute Composition	%,Tons	Brooklyn	Refuse

**Exhibit 1 Index of 2013 WCS Results Tables and Figures**

File Prefix	Exhibit	Measure	Units	Population	Stream(s)
20	31c	Resin Type Subsort Results: Absolute Composition	%,Tons	Manhattan	Refuse
21	31d	Resin Type Subsort Results: Absolute Composition	%,Tons	Queens	Refuse
22	31e	Resin Type Subsort Results: Absolute Composition	%,Tons	Staten Island	Refuse
23	32a	Resin Type Subsort Results: Absolute Composition	%,Tons	Bronx	Aggregate
24	32b	Resin Type Subsort Results: Absolute Composition	%,Tons	Brooklyn	Aggregate
25	32c	Resin Type Subsort Results: Absolute Composition	%,Tons	Manhattan	Aggregate
26	32d	Resin Type Subsort Results: Absolute Composition	%,Tons	Queens	Aggregate
27	32e	Resin Type Subsort Results: Absolute Composition	%,Tons	Staten Island	Aggregate
28	33	Refuse in Recyclables: MGP	%, Tons	All Boroughs	MGP
28	34	Refuse in Recyclables: Paper	%, Tons	All Boroughs	Paper
29	35	Recyclables in the Refuse	%, Tons	All Boroughs	Refuse
07	36a	Capture Rate for Recyclables, All Bottles	%	Bronx	Aggregate
07	36b	Capture Rate for Recyclables, All Bottles	%	Brooklyn	Aggregate
07	36c	Capture Rate for Recyclables, All Bottles	%	Manhattan	Aggregate
07	36d	Capture Rate for Recyclables, All Bottles	%	Queens	Aggregate
07	36e	Capture Rate for Recyclables, All Bottles	%	Staten Island	Aggregate
07	37a	Capture Rate for Recyclables, All Rigids	%	Bronx	Aggregate
07	37b	Capture Rate for Recyclables, All Rigids	%	Brooklyn	Aggregate
07	37c	Capture Rate for Recyclables, All Rigids	%	Manhattan	Aggregate
07	37d	Capture Rate for Recyclables, All Rigids	%	Queens	Aggregate
07	37e	Capture Rate for Recyclables, All Rigids	%	Staten Island	Aggregate

**EXHIBIT 2: FISCAL YEAR 2013 TONS COLLECTED BY MATERIAL**

**REFUSE: MATERIAL CODE 01**

Zone	Tons Collected												Tons Collected
	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	
Manhattan	32,395.80	41,255.80	34,020.70	43,910.10	35,286.10	34,359.50	40,291.10	32,337.80	31,860.60	32,620.10	42,695.90	35,065.70	<b>436,099.20</b>
Bronx	32,676.80	40,711.00	32,467.50	42,340.80	34,453.20	34,114.00	39,718.40	31,288.40	32,015.70	33,122.70	42,005.00	34,267.80	<b>429,181.30</b>
Brooklyn North	28,604.70	36,117.50	29,288.00	36,087.80	27,740.20	28,536.70	32,541.90	26,289.60	27,016.00	27,851.00	36,804.90	30,985.50	<b>367,863.80</b>
Brooklyn South	32,543.90	40,917.40	34,850.70	49,825.10	36,875.80	35,230.50	39,574.40	31,187.70	32,218.50	33,747.00	44,518.50	36,942.30	<b>448,431.60</b>
Queens West	26,381.70	33,178.00	26,301.90	33,317.50	25,212.10	24,939.30	29,407.20	22,728.90	32,216.10	25,084.80	33,136.90	27,737.70	<b>330,642.20</b>
Queens East	30,879.50	39,031.50	30,614.90	38,577.90	31,616.00	29,503.80	32,271.30	24,567.30	25,825.60	29,978.70	41,486.00	34,477.90	<b>388,830.40</b>
Staten Island	13,994.80	17,644.40	14,359.70	19,477.40	16,532.30	13,929.30	15,519.50	11,715.70	12,311.90	15,034.00	20,290.90	16,342.70	<b>187,152.70</b>
<b>Grand Total</b>	<b>197,477.30</b>	<b>248,855.60</b>	<b>201,903.20</b>	<b>263,536.60</b>	<b>207,715.80</b>	<b>200,613.10</b>	<b>229,324.00</b>	<b>180,115.30</b>	<b>184,464.30</b>	<b>197,438.30</b>	<b>260,938.10</b>	<b>215,819.60</b>	<b>2,588,201.10</b>

**PAPER: MATERIAL CODE 31**

Zone	Tons Collected												Tons Collected
	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	
Manhattan	4,498.80	6,011.20	5,615.60	5,551.10	7,227.60	5,949.40	7,220.50	5,590.50	4,683.80	4,621.80	6,145.50	5,172.40	<b>68,288.10</b>
Bronx	2,126.60	2,704.80	2,260.40	2,174.20	2,539.20	2,453.50	2,851.10	2,056.70	2,176.90	2,113.60	2,718.10	2,552.90	<b>28,728.00</b>
Brooklyn North	2,051.50	2,657.60	2,341.60	2,278.70	2,569.90	2,508.30	2,924.40	2,082.40	2,116.50	2,111.30	2,718.70	2,429.80	<b>28,790.80</b>
Brooklyn South	3,900.90	4,995.10	4,506.30	4,327.00	5,025.30	4,879.50	5,816.40	4,213.40	4,174.80	4,211.20	5,165.80	4,698.20	<b>55,913.90</b>
Queens West	2,860.80	3,596.20	3,013.10	2,963.70	3,490.10	3,291.90	3,737.40	2,693.30	2,778.90	2,709.60	3,499.80	3,275.80	<b>37,910.60</b>
Queens East	3,147.20	4,004.20	3,326.50	3,220.10	3,524.60	3,488.30	4,039.00	2,897.00	3,030.00	3,039.90	3,925.70	3,628.30	<b>41,270.70</b>
Staten Island	1,720.70	2,215.30	1,891.10	1,866.40	1,996.50	2,287.90	2,687.50	1,905.40	1,811.20	1,836.00	2,226.60	2,044.40	<b>24,488.90</b>
<b>Grand Total</b>	<b>20,306.50</b>	<b>26,184.40</b>	<b>22,954.70</b>	<b>22,381.20</b>	<b>26,373.20</b>	<b>24,858.80</b>	<b>29,276.20</b>	<b>21,438.70</b>	<b>20,772.00</b>	<b>20,643.30</b>	<b>26,400.10</b>	<b>23,801.80</b>	<b>285,390.90</b>

**MGP: MATERIAL CODE 33**

Zone	Tons Collected												Tons Collected
	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	
Manhattan	3,118.40	3,796.80	3,219.50	3,318.00	4,309.50	3,389.50	4,431.40	3,393.80	3,305.80	3,287.30	4,139.30	3,408.30	<b>43,117.80</b>
Bronx	2,202.10	2,650.00	2,113.40	2,111.80	2,517.10	2,088.20	2,956.30	2,134.20	2,146.80	2,194.10	2,762.90	2,483.80	<b>28,360.80</b>
Brooklyn North	2,008.30	2,435.20	1,958.20	1,864.20	2,298.80	1,876.20	2,579.20	1,856.50	1,861.30	1,886.40	2,378.60	2,176.00	<b>25,178.90</b>
Brooklyn South	2,705.10	3,299.10	2,800.40	2,697.60	3,099.20	2,632.60	3,517.10	2,522.70	2,640.30	2,669.70	3,321.00	2,984.90	<b>34,889.60</b>
Queens West	2,277.40	2,788.00	2,246.50	2,247.10	2,743.90	2,231.30	3,049.60	2,186.30	2,197.50	2,213.40	2,814.70	2,540.00	<b>29,535.60</b>
Queens East	2,633.70	3,216.70	2,531.80	2,507.30	2,716.10	2,393.20	3,309.40	2,372.10	2,421.30	2,498.30	3,218.00	2,977.80	<b>32,795.60</b>
Staten Island	1,505.90	1,797.90	1,450.80	1,381.10	1,457.10	1,369.60	1,834.30	1,258.90	1,322.50	1,400.30	1,890.80	1,710.00	<b>18,378.90</b>
<b>Grand Total</b>	<b>16,450.90</b>	<b>19,983.70</b>	<b>16,320.60</b>	<b>16,127.10</b>	<b>19,141.80</b>	<b>15,980.60</b>	<b>21,677.30</b>	<b>15,724.40</b>	<b>15,895.40</b>	<b>16,149.50</b>	<b>20,525.20</b>	<b>18,280.70</b>	<b>212,257.20</b>



**EXHIBIT 2: FISCAL YEAR 2013 TONS COLLECTED BY MATERIAL**

**RECYCLING: MATERIAL CODE 31+33**

Zone	Tons Collected												Tons Collected
	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	
Manhattan	7,617.20	9,808.00	8,835.10	8,869.10	11,537.10	9,338.90	11,651.90	8,984.30	7,989.60	7,909.10	10,284.80	8,580.70	<b>111,405.90</b>
Bronx	4,328.70	5,354.80	4,373.80	4,286.00	5,056.30	4,541.70	5,807.40	4,190.90	4,323.70	4,307.70	5,481.00	5,036.70	<b>57,088.80</b>
Brooklyn North	4,059.80	5,092.80	4,299.80	4,142.90	4,868.70	4,384.50	5,503.60	3,938.90	3,977.80	3,997.70	5,097.30	4,605.80	<b>53,969.70</b>
Brooklyn South	6,606.00	8,294.20	7,306.70	7,024.60	8,124.50	7,512.10	9,333.50	6,736.10	6,815.10	6,880.90	8,486.80	7,683.10	<b>90,803.50</b>
Queens West	5,138.20	6,384.20	5,259.60	5,210.80	6,234.00	5,523.20	6,787.00	4,879.60	4,976.40	4,923.00	6,314.50	5,815.80	<b>67,446.20</b>
Queens East	5,780.90	7,220.90	5,858.30	5,727.40	6,240.70	5,881.50	7,348.40	5,269.10	5,451.30	5,538.20	7,143.70	6,606.10	<b>74,066.30</b>
Staten Island	3,226.60	4,013.20	3,341.90	3,247.50	3,453.60	3,657.50	4,521.80	3,164.30	3,133.70	3,236.30	4,117.40	3,754.40	<b>42,867.80</b>
<b>Grand Total</b>	<b>36,757.40</b>	<b>46,168.10</b>	<b>39,275.30</b>	<b>38,508.30</b>	<b>45,515.00</b>	<b>40,839.40</b>	<b>50,953.50</b>	<b>37,163.10</b>	<b>36,667.40</b>	<b>36,792.80</b>	<b>46,925.30</b>	<b>42,082.50</b>	<b>497,648.10</b>

**WASTE: MATERIAL CODE 01+31+33**

Zone	Tons Collected												Tons Collected
	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	
Manhattan	40,013.00	51,063.80	42,855.80	52,779.20	46,823.20	43,698.40	51,943.00	41,322.10	39,850.20	40,529.20	52,980.70	43,646.40	<b>547,505.10</b>
Bronx	37,005.50	46,065.80	36,841.30	46,626.80	39,509.50	38,655.70	45,525.80	35,479.30	36,339.40	37,430.40	47,486.00	39,304.50	<b>486,270.10</b>
Brooklyn North	32,664.50	41,210.30	33,587.80	40,230.70	32,608.90	32,921.20	38,045.50	30,228.50	30,993.80	31,848.70	41,902.20	35,591.30	<b>421,833.50</b>
Brooklyn South	39,149.90	49,211.60	42,157.40	56,849.70	45,000.30	42,742.60	48,907.90	37,923.80	39,033.60	40,627.90	53,005.30	44,625.40	<b>539,235.10</b>
Queens West	31,519.90	39,562.20	31,561.50	38,528.30	31,446.10	30,462.50	36,194.20	27,608.50	28,192.50	30,007.80	39,451.40	33,553.50	<b>398,088.40</b>
Queens East	36,660.40	46,252.40	36,473.20	44,305.30	37,856.70	35,385.30	39,619.70	29,836.40	31,276.90	35,516.90	48,629.70	41,084.00	<b>462,896.70</b>
Staten Island	17,221.40	21,657.60	17,701.60	22,724.90	19,985.90	17,586.80	20,041.30	14,880.00	15,445.60	18,270.30	24,408.30	20,097.10	<b>230,020.50</b>
<b>Grand Total</b>	<b>234,234.70</b>	<b>295,023.70</b>	<b>241,178.50</b>	<b>302,044.90</b>	<b>253,230.80</b>	<b>241,452.50</b>	<b>280,277.50</b>	<b>217,278.40</b>	<b>221,131.70</b>	<b>234,231.10</b>	<b>307,863.40</b>	<b>257,902.10</b>	<b>3,085,849.20</b>

Note: Splinter groups not included.

Summary					
Zone	Recycling				Waste
	01 Refuse	33 MGP	31 Paper	31+33 Total	
Manhattan	436,099.20	43,117.80	68,288.10	111,405.90	<b>547,505.10</b>
Bronx	429,181.30	28,360.80	28,728.00	57,088.80	<b>486,270.10</b>
Brooklyn	816,295.40	60,068.50	84,704.70	144,773.20	<b>961,068.60</b>
Queens	719,472.60	62,331.20	79,181.30	141,512.50	<b>860,985.10</b>
Staten Island	187,152.70	18,378.90	24,488.90	42,867.80	<b>230,020.50</b>
<b>Citywide</b>	<b>2,588,201.20</b>	<b>212,257.20</b>	<b>285,391.00</b>	<b>497,648.20</b>	<b>3,085,849.40</b>

### Exhibit 3 Samples Collected

	MGP		Paper		Refuse		Total	
	Goal	Actual	Goal	Actual	Goal	Actual	Goal	Actual
Bronx	30	36	20	22	40	44	90	102
Brooklyn	30	36	26	28	64	68	120	132
Manhattan	30	37	24	26	40	43	94	106
Queens	31	38	31	32	53	57	115	127
Staten Island	30	36	20	22	40	44	90	102
<b>Total</b>	<b>151</b>	<b>183</b>	<b>121</b>	<b>130</b>	<b>237</b>	<b>256</b>	<b>509</b>	<b>569</b>

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**Exhibit 4a Citywide MGP Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>6.9%</b>	<b>0.5%</b>	<b>14,617</b>	<b>Organics</b>	<b>3.9%</b>	<b>0.4%</b>	<b>8,360</b>
Newspaper	0.7%	0.2%	1,421	Yard Waste	0.1%	0.1%	164
Plain OCC/Kraft Paper	0.5%	0.2%	1,109	Food	2.6%	0.3%	5,438
High Grade Paper	0.1%	0.1%	219	Non-C&D Wood	0.1%	0.1%	294
Mixed Low Grade Paper	2.4%	0.3%	5,068	Textiles: Non-Clothing	0.1%	0.0%	142
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.5%	0.1%	987	Textiles: Clothing	0.1%	0.0%	214
Other Nonrecyclable Paper	0.5%	0.0%	962	Carpet/Upholstery	0.0%	0.0%	1
Paper Beverage Cartons/Aseptic Boxes	2.3%	0.2%	4,852	Disposable Diapers/Sanitary Products	0.1%	0.0%	200
				Animal By-Products	0.0%	0.0%	85
<b>Plastic</b>	<b>32.7%</b>	<b>0.9%</b>	<b>69,323</b>	Shoes/Rubber/Leather	0.2%	0.0%	321
#1 PET Bottles	9.5%	0.4%	20,170	Fines	0.6%	0.2%	1,310
#2 HDPE Natural Bottles	4.5%	0.4%	9,515	Miscellaneous Organics	0.1%	0.0%	191
#2 HDPE Pigmented Bottles	3.6%	0.3%	7,739				
Other Plastic Bottles	0.8%	0.1%	1,745	<b>E-Waste</b>	<b>0.7%</b>	<b>0.2%</b>	<b>1,577</b>
Rigid Plastic Containers/Packaging	4.0%	0.2%	8,427	Audio/Visual Equipment-TV Peripherals (Covered)	0.2%	0.2%	402
#6 EPS Containers/Packaging (including Single Use)	0.1%	0.0%	283	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	439
Film Plastic: Retail Bags/Sleeves	0.9%	0.1%	1,862	Computer Monitors	0.0%	0.0%	12
Film Plastic: Garbage Bags	3.2%	0.2%	6,804	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	25	Other Computer Equipment	0.3%	0.2%	724
Film Plastic: All Other Film	0.6%	0.1%	1,280				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.3%	0.0%	730	<b>Construction &amp; Demolition</b>	<b>0.3%</b>	<b>0.4%</b>	<b>674</b>
Appliances: Plastic	0.4%	0.1%	773	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	32
Bulk/Rigid Plastic	3.2%	0.6%	6,742	Treated/Contaminated Wood	0.0%	0.0%	14
Other Plastics	1.5%	0.2%	3,227	Other C&D Debris Not Elsewhere Classified	0.3%	0.4%	628
<b>Glass</b>	<b>38.4%</b>	<b>1.4%</b>	<b>81,533</b>	<b>Special Waste</b>	<b>0.6%</b>	<b>0.2%</b>	<b>1,326</b>
Clear Container Glass	14.9%	0.8%	31,549	Oil Filters	0.0%	0.0%	0
Green Container Glass	7.2%	0.6%	15,262	Antifreeze	0.0%	0.0%	0
Brown Container Glass	3.0%	0.4%	6,329	Wet-Cell Batteries	0.0%	0.0%	14
Other Color Container Glass	0.3%	0.1%	641	Water-Based Adhesives/Glues	0.1%	0.0%	123
Mixed Cullet	11.9%	1.3%	25,187	Latex Paint	0.3%	0.2%	633
Other Glass	1.2%	0.2%	2,564	Oil-Based Paint/Solvent	0.1%	0.1%	227
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	14
<b>Metal</b>	<b>15.5%</b>	<b>1.1%</b>	<b>32,885</b>	Dry-Cell Batteries	0.0%	0.0%	75
Aluminum Cans	1.2%	0.1%	2,491	Fluorescent Tubes/CFLs	0.0%	0.0%	30
Aluminum Foil/Containers	0.8%	0.1%	1,793	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.3%	0.3%	593	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.4%	0.2%	931	Home Medical Products	0.1%	0.0%	126
Steel/Tin Food Cans	6.2%	0.4%	13,141	Other Potentially Harmful Wastes	0.0%	0.0%	85
Empty Aerosol Cans	0.8%	0.1%	1,694				
Other Ferrous	3.0%	0.6%	6,319	<b>Miscellaneous Inorganics</b>	<b>0.9%</b>	<b>0.2%</b>	<b>1,962</b>
Mixed Metals	0.9%	0.4%	1,824				
Appliances: Ferrous	1.6%	0.8%	3,395	<b>Totals</b>	<b>100%</b>		<b>212,257</b>
Appliances: Non-Ferrous	0.3%	0.2%	704	<b>Sample Count</b>	<b>183</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 4b Citywide Paper Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>94.5%</b>	<b>0.6%</b>	<b>269,649</b>	<b>Organics</b>	<b>1.8%</b>	<b>0.4%</b>	<b>5,133</b>
Newspaper	21.1%	1.9%	60,107	Yard Waste	0.0%	0.1%	134
Plain OCC/Kraft Paper	33.7%	2.5%	96,307	Food	0.8%	0.2%	2,149
High Grade Paper	5.9%	1.5%	16,966	Non-C&D Wood	0.1%	0.1%	245
Mixed Low Grade Paper	31.9%	1.6%	91,099	Textiles: Non-Clothing	0.1%	0.1%	371
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.6%	0.2%	1,726	Textiles: Clothing	0.1%	0.1%	310
Other Nonrecyclable Paper	0.9%	0.2%	2,472	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.1%	973	Disposable Diapers/Sanitary Products	0.1%	0.0%	176
				Animal By-Products	0.0%	0.0%	131
<b>Plastic</b>	<b>2.5%</b>	<b>0.2%</b>	<b>7,224</b>	Shoes/Rubber/Leather	0.3%	0.3%	824
#1 PET Bottles	0.2%	0.0%	461	Fines	0.2%	0.0%	578
#2 HDPE Natural Bottles	0.1%	0.0%	149	Miscellaneous Organics	0.1%	0.1%	215
#2 HDPE Pigmented Bottles	0.0%	0.0%	93				
Other Plastic Bottles	0.0%	0.0%	44	<b>E-Waste</b>	<b>0.1%</b>	<b>0.1%</b>	<b>164</b>
Rigid Plastic Containers/Packaging	0.2%	0.0%	580	Audio/Visual Equipment-TV Peripherals (Covered)	0.0%	0.0%	13
#6 EPS Containers/Packaging (including Single Use)	0.2%	0.0%	447	Audio/Visual Equipment-Other (Non-Covered)	0.0%	0.1%	129
Film Plastic: Retail Bags/Sleeves	0.2%	0.0%	591	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	1.1%	0.1%	3,014	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	4	Other Computer Equipment	0.0%	0.0%	21
Film Plastic: All Other Film	0.3%	0.0%	925				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.0%	0.0%	115	<b>Construction &amp; Demolition</b>	<b>0.2%</b>	<b>0.1%</b>	<b>700</b>
Appliances: Plastic	0.0%	0.0%	54	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	17
Bulk/Rigid Plastic	0.1%	0.0%	240	Treated/Contaminated Wood	0.1%	0.1%	146
Other Plastics	0.2%	0.1%	508	Other C&D Debris Not Elsewhere Classified	0.2%	0.1%	537
<b>Glass</b>	<b>0.4%</b>	<b>0.1%</b>	<b>1,134</b>	<b>Special Waste</b>	<b>0.1%</b>	<b>0.0%</b>	<b>192</b>
Clear Container Glass	0.1%	0.1%	404	Oil Filters	0.0%	0.0%	1
Green Container Glass	0.0%	0.0%	77	Antifreeze	0.0%	0.0%	4
Brown Container Glass	0.0%	0.0%	98	Wet-Cell Batteries	0.0%	0.0%	6
Other Color Container Glass	0.0%	0.0%	0	Water-Based Adhesives/Glues	0.0%	0.0%	28
Mixed Cullet	0.1%	0.0%	187	Latex Paint	0.0%	0.0%	0
Other Glass	0.1%	0.1%	368	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>0.3%</b>	<b>0.1%</b>	<b>889</b>	Dry-Cell Batteries	0.0%	0.0%	45
Aluminum Cans	0.0%	0.0%	138	Fluorescent Tubes/CFLs	0.0%	0.0%	0
Aluminum Foil/Containers	0.0%	0.0%	74	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	10	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	43	Home Medical Products	0.0%	0.0%	99
Steel/Tin Food Cans	0.1%	0.0%	261	Other Potentially Harmful Wastes	0.0%	0.0%	10
Empty Aerosol Cans	0.0%	0.0%	43				
Other Ferrous	0.1%	0.0%	185	<b>Miscellaneous Inorganics</b>	<b>0.1%</b>	<b>0.1%</b>	<b>307</b>
Mixed Metals	0.0%	0.0%	70				
Appliances: Ferrous	0.0%	0.0%	26	<b>Totals</b>	<b>100%</b>		<b>285,391</b>
Appliances: Non-Ferrous	0.0%	0.0%	37	<b>Sample Count</b>	<b>130</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 4c Citywide Refuse Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>21.3%</b>	<b>0.7%</b>	<b>550,172</b>	<b>Organics</b>	<b>51.8%</b>	<b>1.2%</b>	<b>1,341,743</b>
Newspaper	1.5%	0.1%	39,508	Yard Waste	7.2%	0.9%	186,418
Plain OCC/Kraft Paper	1.5%	0.2%	38,623	Food	21.1%	0.8%	547,316
High Grade Paper	0.9%	0.2%	23,792	Non-C&D Wood	4.1%	1.1%	106,650
Mixed Low Grade Paper	7.4%	0.4%	190,549	Textiles: Non-Clothing	2.7%	0.4%	68,906
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.8%	0.4%	227,541	Textiles: Clothing	3.4%	0.4%	87,021
Other Nonrecyclable Paper	0.9%	0.1%	23,124	Carpet/Upholstery	1.5%	0.4%	37,905
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.0%	7,037	Disposable Diapers/Sanitary Products	4.5%	0.3%	117,483
				Animal By-Products	2.1%	0.3%	53,876
<b>Plastic</b>	<b>13.7%</b>	<b>0.4%</b>	<b>355,033</b>	Shoes/Rubber/Leather	1.2%	0.2%	31,695
#1 PET Bottles	0.9%	0.1%	23,643	Fines	3.3%	0.2%	85,730
#2 HDPE Natural Bottles	0.2%	0.0%	6,085	Miscellaneous Organics	0.7%	0.1%	18,743
#2 HDPE Pigmented Bottles	0.2%	0.0%	5,523				
Other Plastic Bottles	0.1%	0.0%	2,170	<b>E-Waste</b>	<b>1.0%</b>	<b>0.3%</b>	<b>25,673</b>
Rigid Plastic Containers/Packaging	1.5%	0.1%	39,232	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.1%	3,253
#6 EPS Containers/Packaging (including Single Use)	0.9%	0.1%	23,783	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	5,977
Film Plastic: Retail Bags/Sleeves	2.7%	0.1%	69,470	Computer Monitors	0.0%	0.0%	66
Film Plastic: Garbage Bags	2.6%	0.1%	67,522	Televisions	0.3%	0.3%	7,925
Film Plastic: Food/Drink Pouches	0.0%	0.0%	1,016	Other Computer Equipment	0.3%	0.1%	8,451
Film Plastic: All Other Film	2.2%	0.1%	55,891				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.5%	0.1%	13,754	<b>Construction &amp; Demolition</b>	<b>6.0%</b>	<b>0.9%</b>	<b>155,502</b>
Appliances: Plastic	0.3%	0.1%	6,510	Untreated Dimensional Lumber/Pallets/Crates	0.9%	0.3%	23,439
Bulk/Rigid Plastic	0.8%	0.1%	20,009	Treated/Contaminated Wood	1.5%	0.6%	39,837
Other Plastics	0.8%	0.1%	20,425	Other C&D Debris Not Elsewhere Classified	3.6%	0.7%	92,226
<b>Glass</b>	<b>2.0%</b>	<b>0.2%</b>	<b>51,831</b>	<b>Special Waste</b>	<b>0.4%</b>	<b>0.1%</b>	<b>10,536</b>
Clear Container Glass	0.9%	0.1%	23,845	Oil Filters	0.0%	0.0%	3
Green Container Glass	0.2%	0.0%	5,103	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.2%	0.0%	4,943	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	327	Water-Based Adhesives/Glues	0.0%	0.0%	61
Mixed Cullet	0.4%	0.1%	9,721	Latex Paint	0.1%	0.1%	1,777
Other Glass	0.3%	0.0%	7,892	Oil-Based Paint/Solvent	0.0%	0.0%	43
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	269
<b>Metal</b>	<b>2.9%</b>	<b>0.4%</b>	<b>75,515</b>	Dry-Cell Batteries	0.1%	0.0%	2,524
Aluminum Cans	0.2%	0.0%	6,116	Fluorescent Tubes/CFLs	0.0%	0.0%	189
Aluminum Foil/Containers	0.5%	0.0%	12,850	Mercury-Laden Wastes	0.0%	0.0%	52
Other Aluminum	0.1%	0.0%	2,146	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	97
Other Non-Ferrous	0.1%	0.1%	2,554	Home Medical Products	0.2%	0.0%	4,194
Steel/Tin Food Cans	0.5%	0.1%	13,596	Other Potentially Harmful Wastes	0.1%	0.0%	1,328
Empty Aerosol Cans	0.1%	0.0%	2,614				
Other Ferrous	0.7%	0.2%	18,386	<b>Miscellaneous Inorganics</b>	<b>0.9%</b>	<b>0.2%</b>	<b>22,197</b>
Mixed Metals	0.5%	0.2%	11,728				
Appliances: Ferrous	0.2%	0.2%	5,162	<b>Totals</b>	<b>100%</b>		<b>2,588,201</b>
Appliances: Non-Ferrous	0.0%	0.0%	362	<b>Sample Count</b>	<b>256</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 4d Citywide Aggregate Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>27.0%</b>	<b>0.6%</b>	<b>834,438</b>	<b>Organics</b>	<b>43.9%</b>	<b>1.0%</b>	<b>1,355,236</b>
Newspaper	3.3%	0.2%	101,035	Yard Waste	6.1%	0.8%	186,715
Plain OCC/Kraft Paper	4.4%	0.3%	136,039	Food	18.0%	0.7%	554,903
High Grade Paper	1.3%	0.2%	40,977	Non-C&D Wood	3.5%	0.9%	107,188
Mixed Low Grade Paper	9.3%	0.4%	286,715	Textiles: Non-Clothing	2.2%	0.3%	69,419
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.5%	0.3%	230,253	Textiles: Clothing	2.8%	0.3%	87,545
Other Nonrecyclable Paper	0.9%	0.1%	26,558	Carpet/Upholstery	1.2%	0.4%	37,905
Paper Beverage Cartons/Aseptic Boxes	0.4%	0.0%	12,861	Disposable Diapers/Sanitary Products	3.8%	0.3%	117,859
				Animal By-Products	1.8%	0.3%	54,092
<b>Plastic</b>	<b>14.0%</b>	<b>0.4%</b>	<b>431,580</b>	Shoes/Rubber/Leather	1.1%	0.1%	32,841
#1 PET Bottles	1.4%	0.1%	44,274	Fines	2.8%	0.1%	87,618
#2 HDPE Natural Bottles	0.5%	0.2%	15,749	Miscellaneous Organics	0.6%	0.1%	19,150
#2 HDPE Pigmented Bottles	0.4%	0.1%	13,355				
Other Plastic Bottles	0.1%	0.0%	3,960	<b>E-Waste</b>	<b>0.9%</b>	<b>0.3%</b>	<b>27,413</b>
Rigid Plastic Containers/Packaging	1.6%	0.1%	48,240	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.0%	3,668
#6 EPS Containers/Packaging (including Single Use)	0.8%	0.1%	24,513	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	6,545
Film Plastic: Retail Bags/Sleeves	2.3%	0.1%	71,923	Computer Monitors	0.0%	0.0%	78
Film Plastic: Garbage Bags	2.5%	0.1%	77,341	Televisions	0.3%	0.3%	7,925
Film Plastic: Food/Drink Pouches	0.0%	0.0%	1,045	Other Computer Equipment	0.3%	0.1%	9,197
Film Plastic: All Other Film	1.9%	0.1%	58,096				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.5%	0.1%	14,599	<b>Construction &amp; Demolition</b>	<b>5.1%</b>	<b>0.8%</b>	<b>156,876</b>
Appliances: Plastic	0.2%	0.1%	7,336	Untreated Dimensional Lumber/Pallets/Crates	0.8%	0.2%	23,487
Bulk/Rigid Plastic	0.9%	0.1%	26,991	Treated/Contaminated Wood	1.3%	0.5%	39,997
Other Plastics	0.8%	0.1%	24,159	Other C&D Debris Not Elsewhere Classified	3.0%	0.6%	93,391
<b>Glass</b>	<b>4.4%</b>	<b>0.2%</b>	<b>134,498</b>	<b>Special Waste</b>	<b>0.4%</b>	<b>0.1%</b>	<b>12,054</b>
Clear Container Glass	1.8%	0.1%	55,798	Oil Filters	0.0%	0.0%	3
Green Container Glass	0.7%	0.1%	20,443	Antifreeze	0.0%	0.0%	4
Brown Container Glass	0.4%	0.0%	11,370	Wet-Cell Batteries	0.0%	0.0%	20
Other Color Container Glass	0.0%	0.0%	968	Water-Based Adhesives/Glues	0.0%	0.0%	211
Mixed Cullet	1.1%	0.1%	35,095	Latex Paint	0.1%	0.1%	2,410
Other Glass	0.4%	0.0%	10,824	Oil-Based Paint/Solvent	0.0%	0.0%	271
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	283
<b>Metal</b>	<b>3.5%</b>	<b>0.3%</b>	<b>109,288</b>	Dry-Cell Batteries	0.1%	0.0%	2,643
Aluminum Cans	0.3%	0.0%	8,745	Fluorescent Tubes/CFLs	0.0%	0.0%	219
Aluminum Foil/Containers	0.5%	0.0%	14,717	Mercury-Laden Wastes	0.0%	0.0%	52
Other Aluminum	0.1%	0.0%	2,749	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	97
Other Non-Ferrous	0.1%	0.0%	3,528	Home Medical Products	0.1%	0.0%	4,418
Steel/Tin Food Cans	0.9%	0.1%	26,998	Other Potentially Harmful Wastes	0.0%	0.0%	1,423
Empty Aerosol Cans	0.1%	0.0%	4,351				
Other Ferrous	0.8%	0.2%	24,891	<b>Miscellaneous Inorganics</b>	<b>0.8%</b>	<b>0.1%</b>	<b>24,467</b>
Mixed Metals	0.4%	0.2%	13,622				
Appliances: Ferrous	0.3%	0.2%	8,584	<b>Totals</b>	<b>100%</b>		<b>3,085,849</b>
Appliances: Non-Ferrous	0.0%	0.0%	1,104	<b>Sample Count</b>	<b>569</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 5a Citywide MGP 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Clear Container Glass	14.9%	14.9%	31,549
Mixed Cullet	11.9%	26.7%	25,187
#1 PET Bottles	9.5%	36.2%	20,170
#2 HDPE Bottles	8.1%	44.4%	17,255
Green Container Glass	7.2%	51.6%	15,262
Steel/Tin Food Cans	6.2%	57.7%	13,141
Rigid Plastic Containers/Packaging	4.0%	61.7%	8,427
Film Plastic: Garbage Bags	3.2%	64.9%	6,804
Bulk/Rigid Plastic	3.2%	68.1%	6,742
Brown Container Glass	3.0%	71.1%	6,329
<b>Subtotal</b>	<b>71.1%</b>		<b>150,866</b>
All other materials	28.9%		61,391
<b>Total</b>	<b>100.0%</b>		<b>212,257</b>



**Exhibit 5b Citywide Paper 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Plain OCC/Kraft Paper	33.7%	33.7%	96,307
Mixed Low Grade Paper	31.9%	65.7%	91,099
Newspaper	21.1%	86.7%	60,107
High Grade Paper	5.9%	92.7%	16,966
Film Plastic: Garbage Bags	1.1%	93.7%	3,014
Other Nonrecyclable Paper	0.9%	94.6%	2,472
Food	0.8%	95.3%	2,149
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.6%	96.0%	1,726
Paper Beverage Cartons/Aseptic Boxes	0.3%	96.3%	973
Film Plastic: All Other Film	0.3%	96.6%	925
<b>Subtotal</b>	<b>96.6%</b>		<b>275,737</b>
All other materials	3.4%		9,654
<b>Total</b>	<b>100.0%</b>		<b>285,391</b>

**Exhibit 5c Citywide Refuse 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	21.1%	21.1%	547,316
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.8%	29.9%	227,541
Mixed Low Grade Paper	7.4%	37.3%	190,549
Yard Waste	7.2%	44.5%	186,418
Disposable Diapers/Sanitary Products	4.5%	49.0%	117,483
Non-C&D Wood	4.1%	53.2%	106,650
Other C&D Debris Not Elsewhere Classified	3.6%	56.7%	92,226
Textiles: Clothing	3.4%	60.1%	87,021
Fines	3.3%	63.4%	85,730
Film Plastic: Retail Bags/Sleeves	2.7%	66.1%	69,470
<b>Subtotal</b>	<b>66.1%</b>		<b>1,710,403</b>
All other materials	33.9%		877,798
<b>Total</b>	<b>100.0%</b>		<b>2,588,201</b>

**Exhibit 5d Citywide Aggregate 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	18.0%	18.0%	554,903
Mixed Low Grade Paper	9.3%	27.3%	286,715
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.5%	34.7%	230,253
Yard Waste	6.1%	40.8%	186,715
Plain OCC/Kraft Paper	4.4%	45.2%	136,039
Disposable Diapers/Sanitary Products	3.8%	49.0%	117,859
Non-C&D Wood	3.5%	52.5%	107,188
Newspaper	3.3%	55.8%	101,035
Other C&D Debris Not Elsewhere Classified	3.0%	58.8%	93,391
Fines	2.8%	61.6%	87,618
<b>Subtotal</b>	<b>61.6%</b>		<b>1,901,717</b>
All other materials	38.4%		1,184,132
<b>Total</b>	<b>100.0%</b>		<b>3,085,849</b>

**Exhibit 6a Citywide Composition of Bottles, Cans and Cartons in MGP Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	<b>0.0%</b>	0.0%	0.0%	<b>0.8%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.0%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>2.3%</b>
#1 PET Clear/Green Bottles	<b>0.8%</b>	0.0%	<b>0.9%</b>	<b>1.7%</b>	<b>0.7%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>1.8%</b>	<b>1.3%</b>	<b>1.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>8.7%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.8%</b>
#2 HDPE Natural Bottles	<b>0.0%</b>	<b>0.0%</b>	<b>0.8%</b>	<b>0.3%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>2.3%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>4.5%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.5%</b>	<b>2.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>3.6%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>
BioPlastic Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.6%</b>	<b>0.9%</b>	<b>0.1%</b>	<b>1.8%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>1.8%</b>	<b>2.9%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>5.4%</b>	<b>0.4%</b>	0.0%	0.0%	<b>0.2%</b>	<b>14.9%</b>
Green Container Glass	<b>0.6%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>5.2%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>7.2%</b>
Brown Container Glass	<b>0.1%</b>	<b>1.9%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.3%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>3.0%</b>
Other Color Container Glass	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>
Aluminum Cans	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.3%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.2%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.5%</b>	<b>0.1%</b>	<b>5.1%</b>	<b>0.3%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>6.2%</b>
<b>Total</b>	<b>2.4%</b>	<b>3.9%</b>	<b>1.9%</b>	<b>5.4%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>7.5%</b>	<b>3.7%</b>	<b>4.3%</b>	<b>2.8%</b>	<b>13.8%</b>	<b>5.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>53.5%</b>

**Exhibit 6b Citywide Composition of Bottles, Cans and Cartons in MGP Stream**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	2	0	0	1,643	2	84	1	73	2,174	626	180	31	0	0	36	4,852
#1 PET Clear/Green Bottles	1,593	0	1,953	3,528	1,545	434	16	294	231	3,850	2,808	2,072	0	0	124	18,451
#1 PET Other Color Bottles	88	11	57	627	7	22	4	26	60	44	200	559	9	0	5	1,719
#2 HDPE Natural Bottles	15	15	1,767	556	0	2	0	30	4,928	144	832	1,171	18	9	30	9,515
#2 HDPE Pigmented Bottles	0	0	0	37	17	7	0	3	629	177	1,076	5,715	28	42	10	7,739
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	1	32	51	0	0	7	91
#4 LDPE/LLDPE Bottles	0	0	0	3	0	0	0	0	0	0	37	8	0	0	0	47
#5 PP Rigid Bottles	0	0	7	10	0	0	0	0	26	0	598	103	0	0	17	761
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	4	6	0	0	0	10
#7 Other Bottles	0	0	0	56	11	1	0	0	2	8	111	28	20	0	8	245
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	241	0	1	0	0	0	9	3	0	0	0	0	255
Unlabeled Plastic Bottles	0	0	1	0	0	1	0	0	0	0	72	166	4	0	91	335
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Film Plastic: Food/Drink Pouches	0	0	0	20	0	0	1	0	1	1	3	0	0	0	0	25
Clear Container Glass	1,314	1,884	151	3,859	7	645	3,878	6,233	125	769	11,393	931	0	0	360	31,549
Green Container Glass	1,222	1,959	56	18	0	8	11,110	375	0	12	409	87	0	0	7	15,262
Brown Container Glass	286	3,979	0	316	0	6	660	604	0	28	300	147	0	0	2	6,329
Other Color Container Glass	32	93	8	2	0	0	190	279	0	0	0	35	0	0	3	641
Aluminum Cans	473	237	14	435	11	109	0	18	35	53	377	724	0	0	5	2,491
Steel/Tin Food Cans	0	20	0	137	33	179	0	5	978	317	10,755	698	0	3	18	13,141
<b>Total</b>	<b>5,026</b>	<b>8,197</b>	<b>4,015</b>	<b>11,488</b>	<b>1,633</b>	<b>1,498</b>	<b>15,860</b>	<b>7,939</b>	<b>9,188</b>	<b>6,038</b>	<b>29,190</b>	<b>12,531</b>	<b>78</b>	<b>53</b>	<b>725</b>	<b>113,460</b>

**Exhibit 6c Breakdown of Container Type for each Product Type (MGP - Citywide)**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	14.3%	0.1%	5.6%	0.0%	0.9%	23.7%	10.4%	0.6%	0.2%	0.0%	0.0%	5.0%	4.3%
#1 PET Clear/Green Bottles	31.7%	0.0%	48.7%	30.7%	94.6%	29.0%	0.1%	3.7%	2.5%	63.8%	9.6%	16.5%	0.0%	0.0%	17.1%	16.3%
#1 PET Other Color Bottles	1.8%	0.1%	1.4%	5.5%	0.4%	1.4%	0.0%	0.3%	0.7%	0.7%	0.7%	4.5%	11.5%	0.0%	0.7%	1.5%
#2 HDPE Natural Bottles	0.3%	0.2%	44.0%	4.8%	0.0%	0.2%	0.0%	0.4%	53.6%	2.4%	2.8%	9.3%	22.4%	16.3%	4.1%	8.4%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.3%	1.0%	0.4%	0.0%	0.0%	6.8%	2.9%	3.7%	45.6%	36.1%	78.5%	1.4%	6.8%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.4%	0.0%	0.0%	1.0%	0.1%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	2.0%	0.8%	0.0%	0.0%	2.4%	0.7%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.5%	0.7%	0.1%	0.0%	0.0%	0.0%	0.1%	0.4%	0.2%	25.0%	0.0%	1.1%	0.2%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	2.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	1.3%	5.0%	0.0%	12.6%	0.3%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	26.1%	23.0%	3.8%	33.6%	0.4%	43.0%	24.4%	78.5%	1.4%	12.7%	39.0%	7.4%	0.0%	0.0%	49.7%	27.8%
Green Container Glass	24.3%	23.9%	1.4%	0.2%	0.0%	0.5%	70.0%	4.7%	0.0%	0.2%	1.4%	0.7%	0.0%	0.0%	1.0%	13.5%
Brown Container Glass	5.7%	48.5%	0.0%	2.7%	0.0%	0.4%	4.2%	7.6%	0.0%	0.5%	1.0%	1.2%	0.0%	0.0%	0.3%	5.6%
Other Color Container Glass	0.6%	1.1%	0.2%	0.0%	0.0%	0.0%	1.2%	3.5%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.4%	0.6%
Aluminum Cans	9.4%	2.9%	0.3%	3.8%	0.6%	7.3%	0.0%	0.2%	0.4%	0.9%	1.3%	5.8%	0.0%	0.0%	0.7%	2.2%
Steel/Tin Food Cans	0.0%	0.2%	0.0%	1.2%	2.0%	11.9%	0.0%	0.1%	10.6%	5.2%	36.8%	5.6%	0.0%	5.2%	2.5%	11.6%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 6d Breakdown of Product Type for each Container Type (MGP - Citywide)**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	33.9%	0.0%	1.7%	0.0%	1.5%	44.8%	12.9%	3.7%	0.6%	0.0%	0.0%	0.7%	100.0%
#1 PET Clear/Green Bottles	8.6%	0.0%	10.6%	19.1%	8.4%	2.4%	0.1%	1.6%	1.3%	20.9%	15.2%	11.2%	0.0%	0.0%	0.7%	100.0%
#1 PET Other Color Bottles	5.1%	0.6%	3.3%	36.5%	0.4%	1.3%	0.3%	1.5%	3.5%	2.5%	11.7%	32.5%	0.5%	0.0%	0.3%	100.0%
#2 HDPE Natural Bottles	0.2%	0.2%	18.6%	5.8%	0.0%	0.0%	0.0%	0.3%	51.8%	1.5%	8.7%	12.3%	0.2%	0.1%	0.3%	100.0%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.5%	0.2%	0.1%	0.0%	0.0%	8.1%	2.3%	13.9%	73.8%	0.4%	0.5%	0.1%	100.0%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	35.5%	55.5%	0.0%	0.0%	7.6%	100.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	5.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	77.6%	16.9%	0.0%	0.0%	0.0%	100.0%
#5 PP Rigid Bottles	0.0%	0.0%	1.0%	1.3%	0.0%	0.1%	0.0%	0.0%	3.4%	0.0%	78.5%	13.5%	0.0%	0.0%	2.3%	100.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	38.7%	61.3%	0.0%	0.0%	0.0%	100.0%
#7 Other Bottles	0.0%	0.0%	0.0%	22.7%	4.4%	0.3%	0.0%	0.0%	0.9%	3.4%	45.4%	11.5%	8.0%	0.0%	3.4%	100.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	94.7%	0.0%	0.4%	0.0%	0.0%	0.0%	3.7%	1.2%	0.0%	0.0%	0.0%	0.0%	100.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.2%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	21.5%	49.6%	1.2%	0.0%	27.1%	100.0%
BioPlastic Bottles	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	80.5%	0.0%	0.0%	2.3%	0.0%	2.4%	2.4%	12.4%	0.0%	0.0%	0.0%	0.0%	100.0%
Clear Container Glass	4.2%	6.0%	0.5%	12.2%	0.0%	2.0%	12.3%	19.8%	0.4%	2.4%	36.1%	3.0%	0.0%	0.0%	1.1%	100.0%
Green Container Glass	8.0%	12.8%	0.4%	0.1%	0.0%	0.1%	72.8%	2.5%	0.0%	0.1%	2.7%	0.6%	0.0%	0.0%	0.0%	100.0%
Brown Container Glass	4.5%	62.9%	0.0%	5.0%	0.0%	0.1%	10.4%	9.5%	0.0%	0.4%	4.7%	2.3%	0.0%	0.0%	0.0%	100.0%
Other Color Container Glass	5.0%	14.5%	1.2%	0.3%	0.0%	0.0%	29.7%	43.4%	0.0%	0.0%	0.0%	5.4%	0.0%	0.0%	0.5%	100.0%
Aluminum Cans	19.0%	9.5%	0.6%	17.5%	0.4%	4.4%	0.0%	0.7%	1.4%	2.1%	15.1%	29.1%	0.0%	0.0%	0.2%	100.0%
Steel/Tin Food Cans	0.0%	0.2%	0.0%	1.0%	0.2%	1.4%	0.0%	0.0%	7.4%	2.4%	81.8%	5.3%	0.0%	0.0%	0.1%	100.0%
<b>Total</b>	<b>4.4%</b>	<b>7.2%</b>	<b>3.5%</b>	<b>10.1%</b>	<b>1.4%</b>	<b>1.3%</b>	<b>14.0%</b>	<b>7.0%</b>	<b>8.1%</b>	<b>5.3%</b>	<b>25.7%</b>	<b>11.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>100.0%</b>

**Exhibit 7a Citywide Composition of Bottles, Cans and Cartons in Paper Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
#1 PET Clear/Green Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Green Container Glass	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
<b>Total</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.9%</b>

**Exhibit 7b Citywide Composition of Bottles, Cans and Cartons in Paper Stream**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>391</b>	0	0	0	0	<b>392</b>	<b>145</b>	<b>41</b>	<b>4</b>	<b>0</b>	0	0	<b>973</b>
#1 PET Clear/Green Bottles	<b>45</b>	0	<b>65</b>	<b>74</b>	<b>23</b>	<b>11</b>	0	<b>2</b>	<b>1</b>	<b>74</b>	<b>61</b>	<b>49</b>	0	0	<b>2</b>	<b>406</b>
#1 PET Other Color Bottles	<b>7</b>	0	<b>1</b>	<b>31</b>	<b>4</b>	0	0	<b>2</b>	0	<b>0</b>	<b>4</b>	<b>4</b>	0	0	0	<b>55</b>
#2 HDPE Natural Bottles	0	0	<b>43</b>	<b>6</b>	0	0	0	0	<b>50</b>	<b>2</b>	<b>12</b>	<b>27</b>	0	<b>7</b>	<b>1</b>	<b>149</b>
#2 HDPE Pigmented Bottles	0	0	0	0	0	0	0	0	<b>21</b>	0	<b>8</b>	<b>45</b>	0	<b>19</b>	0	<b>93</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#5 PP Rigid Bottles	0	0	0	<b>8</b>	0	0	0	0	0	0	<b>10</b>	0	0	0	0	<b>18</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	<b>7</b>	0	0	0	0	0	0	<b>8</b>	<b>1</b>	0	0	0	<b>17</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unlabeled Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>9</b>	0	0	0	<b>9</b>
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	<b>2</b>	0	0	0	<b>1</b>	0	<b>1</b>	0	0	0	0	0	<b>4</b>
Clear Container Glass	<b>27</b>	0	0	<b>164</b>	0	0	<b>22</b>	<b>102</b>	0	0	<b>89</b>	0	0	0	0	<b>404</b>
Green Container Glass	<b>41</b>	<b>10</b>	0	0	0	0	<b>26</b>	0	0	0	0	0	0	0	0	<b>77</b>
Brown Container Glass	<b>10</b>	<b>14</b>	0	0	0	0	<b>74</b>	0	0	0	0	0	0	0	0	<b>98</b>
Other Color Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aluminum Cans	<b>31</b>	<b>4</b>	0	<b>12</b>	0	<b>38</b>	0	0	0	<b>1</b>	<b>8</b>	<b>44</b>	0	0	0	<b>138</b>
Steel/Tin Food Cans	0	0	0	<b>6</b>	0	0	0	0	<b>22</b>	<b>8</b>	<b>210</b>	<b>8</b>	0	0	<b>6</b>	<b>261</b>
<b>Total</b>	<b>161</b>	<b>28</b>	<b>109</b>	<b>701</b>	<b>28</b>	<b>49</b>	<b>122</b>	<b>107</b>	<b>487</b>	<b>231</b>	<b>453</b>	<b>192</b>	<b>0</b>	<b>26</b>	<b>9</b>	<b>2,702</b>

**Exhibit 7c Breakdown of Container Type for each Product Type (Paper - Citywide)**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold text indicates a value greater than 0%.**

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>55.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>80.5%</b>	<b>62.8%</b>	<b>9.1%</b>	<b>2.0%</b>	0.0%	0.0%	0.0%	<b>36.0%</b>
#1 PET Clear/Green Bottles	<b>27.7%</b>	0.0%	<b>59.4%</b>	<b>10.5%</b>	<b>85.1%</b>	<b>21.7%</b>	0.0%	<b>1.9%</b>	<b>0.2%</b>	<b>32.0%</b>	<b>13.5%</b>	<b>25.4%</b>	0.0%	0.0%	<b>24.3%</b>	<b>15.0%</b>
#1 PET Other Color Bottles	<b>4.3%</b>	0.0%	<b>1.1%</b>	<b>4.5%</b>	<b>14.9%</b>	0.0%	0.0%	<b>1.9%</b>	0.0%	<b>0.2%</b>	<b>1.0%</b>	<b>2.3%</b>	0.0%	0.0%	0.0%	<b>2.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>39.5%</b>	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>10.3%</b>	<b>0.7%</b>	<b>2.7%</b>	<b>14.3%</b>	0.0%	<b>27.5%</b>	<b>12.2%</b>	<b>5.5%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.4%</b>	0.0%	<b>1.7%</b>	<b>23.6%</b>	0.0%	<b>72.5%</b>	0.0%	<b>3.5%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>1.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.8%</b>	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.6%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Clear Container Glass	<b>16.6%</b>	0.0%	0.0%	<b>23.4%</b>	0.0%	0.0%	0.0%	<b>95.6%</b>	0.0%	0.0%	<b>19.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>14.9%</b>
Green Container Glass	<b>25.7%</b>	<b>34.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>21.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.9%</b>
Brown Container Glass	<b>6.4%</b>	<b>49.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>60.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.6%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>19.3%</b>	<b>15.8%</b>	0.0%	<b>1.6%</b>	0.0%	<b>78.3%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>1.8%</b>	<b>22.8%</b>	0.0%	0.0%	0.0%	<b>5.1%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>4.6%</b>	<b>3.3%</b>	<b>46.5%</b>	<b>4.4%</b>	0.0%	0.0%	<b>63.5%</b>	<b>9.6%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 7d Breakdown of Product Type for each Container Type (Paper - Citywide)**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold text indicates a value greater than 0%.**

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>40.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>40.3%</b>	<b>14.9%</b>	<b>4.2%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>11.0%</b>	0.0%	<b>16.0%</b>	<b>18.1%</b>	<b>5.8%</b>	<b>2.6%</b>	0.0%	<b>0.5%</b>	<b>0.3%</b>	<b>18.2%</b>	<b>15.0%</b>	<b>12.0%</b>	0.0%	0.0%	<b>0.5%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>12.5%</b>	0.0%	<b>2.3%</b>	<b>57.3%</b>	<b>7.5%</b>	0.0%	0.0%	<b>3.8%</b>	0.0%	<b>0.9%</b>	<b>7.9%</b>	<b>7.9%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>29.0%</b>	<b>3.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>33.8%</b>	<b>1.2%</b>	<b>8.3%</b>	<b>18.4%</b>	0.0%	<b>4.9%</b>	<b>0.7%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>22.7%</b>	0.0%	<b>8.4%</b>	<b>48.5%</b>	0.0%	<b>20.4%</b>	0.0%	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>44.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>55.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>42.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>49.7%</b>	<b>7.4%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>54.1%</b>	0.0%	0.0%	0.0%	<b>14.0%</b>	0.0%	<b>31.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	<b>6.6%</b>	0.0%	0.0%	<b>40.6%</b>	0.0%	0.0%	<b>5.4%</b>	<b>25.3%</b>	0.0%	0.0%	<b>22.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Green Container Glass	<b>53.5%</b>	<b>12.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>33.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Brown Container Glass	<b>10.5%</b>	<b>14.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>75.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>22.5%</b>	<b>3.2%</b>	0.0%	<b>8.3%</b>	0.0%	<b>27.6%</b>	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>5.8%</b>	<b>31.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>2.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>8.6%</b>	<b>2.9%</b>	<b>80.7%</b>	<b>3.2%</b>	0.0%	0.0%	<b>2.2%</b>	<b>100.0%</b>
<b>Total</b>	<b>6.0%</b>	<b>1.0%</b>	<b>4.0%</b>	<b>25.9%</b>	<b>1.0%</b>	<b>1.8%</b>	<b>4.5%</b>	<b>4.0%</b>	<b>18.0%</b>	<b>8.5%</b>	<b>16.8%</b>	<b>7.1%</b>	0.0%	<b>1.0%</b>	<b>0.3%</b>	<b>100.0%</b>

**Exhibit 8a Citywide Composition of Bottles, Cans and Cartons in Refuse Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>
#1 PET Clear/Green Bottles	<b>0.2%</b>	0.0%	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.8%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Clear Container Glass	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.9%</b>
Green Container Glass	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Other Color Container Glass	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.5%</b>
<b>Total</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.2%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>1.0%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>3.8%</b>

**Exhibit 8b Citywide Composition of Bottles, Cans and Cartons in Refuse Stream**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>2,108</b>	<b>8</b>	<b>194</b>	0	<b>533</b>	<b>2,792</b>	<b>940</b>	<b>359</b>	<b>33</b>	0	0	<b>70</b>	<b>7,037</b>
#1 PET Clear/Green Bottles	<b>4,049</b>	0	<b>4,439</b>	<b>2,470</b>	<b>1,095</b>	<b>1,012</b>	<b>10</b>	<b>581</b>	<b>249</b>	<b>1,771</b>	<b>3,314</b>	<b>2,197</b>	0	<b>12</b>	<b>144</b>	<b>21,346</b>
#1 PET Other Color Bottles	<b>28</b>	<b>3</b>	<b>60</b>	<b>935</b>	<b>1</b>	<b>39</b>	<b>7</b>	<b>34</b>	<b>268</b>	<b>45</b>	<b>150</b>	<b>684</b>	0	<b>9</b>	<b>33</b>	<b>2,297</b>
#2 HDPE Natural Bottles	0	0	<b>351</b>	<b>552</b>	0	<b>12</b>	0	0	<b>2,422</b>	<b>123</b>	<b>1,108</b>	<b>1,367</b>	<b>14</b>	<b>60</b>	<b>77</b>	<b>6,085</b>
#2 HDPE Pigmented Bottles	0	0	0	<b>35</b>	<b>13</b>	<b>29</b>	0	<b>7</b>	<b>269</b>	<b>23</b>	<b>992</b>	<b>3,940</b>	<b>28</b>	<b>168</b>	<b>19</b>	<b>5,523</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	<b>33</b>	<b>14</b>	0	0	<b>4</b>	<b>51</b>
#4 LDPE/LLDPE Bottles	0	0	0	<b>4</b>	0	0	0	0	0	0	<b>23</b>	<b>16</b>	0	0	<b>3</b>	<b>45</b>
#5 PP Rigid Bottles	0	0	0	<b>25</b>	0	<b>8</b>	0	0	<b>36</b>	0	<b>518</b>	<b>259</b>	0	<b>3</b>	<b>25</b>	<b>873</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>23</b>	0	0	0	<b>23</b>
#7 Other Bottles	0	0	0	<b>38</b>	<b>12</b>	0	0	0	<b>13</b>	<b>13</b>	<b>83</b>	<b>114</b>	0	<b>5</b>	<b>9</b>	<b>288</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	<b>24</b>	0	<b>2</b>	0	0	<b>7</b>	0	<b>6</b>	<b>5</b>	0	0	<b>18</b>	<b>62</b>
Unlabeled Plastic Bottles	0	0	0	<b>15</b>	0	<b>1</b>	0	0	0	0	<b>107</b>	<b>529</b>	0	<b>8</b>	<b>111</b>	<b>771</b>
BioPlastic Bottles	0	0	0	<b>31</b>	0	0	0	0	0	0	0	<b>27</b>	0	0	0	<b>58</b>
Film Plastic: Food/Drink Pouches	0	0	0	<b>917</b>	0	<b>3</b>	0	0	0	<b>9</b>	<b>54</b>	<b>23</b>	0	0	<b>11</b>	<b>1,016</b>
Clear Container Glass	<b>1,364</b>	<b>3,534</b>	<b>77</b>	<b>3,771</b>	0	<b>467</b>	<b>1,202</b>	<b>4,049</b>	<b>25</b>	<b>255</b>	<b>8,022</b>	<b>978</b>	0	0	<b>102</b>	<b>23,845</b>
Green Container Glass	<b>394</b>	<b>1,497</b>	<b>668</b>	<b>52</b>	0	0	<b>1,725</b>	<b>79</b>	0	0	<b>326</b>	<b>315</b>	0	0	<b>48</b>	<b>5,103</b>
Brown Container Glass	<b>762</b>	<b>2,930</b>	0	<b>188</b>	0	0	<b>162</b>	<b>229</b>	0	0	<b>317</b>	<b>354</b>	0	0	0	<b>4,943</b>
Other Color Container Glass	<b>28</b>	<b>73</b>	0	0	0	0	<b>21</b>	<b>78</b>	0	0	<b>9</b>	<b>118</b>	0	0	0	<b>327</b>
Aluminum Cans	<b>2,032</b>	<b>1,216</b>	<b>25</b>	<b>660</b>	<b>36</b>	<b>246</b>	0	<b>9</b>	<b>23</b>	<b>97</b>	<b>846</b>	<b>915</b>	0	0	<b>9</b>	<b>6,116</b>
Steel/Tin Food Cans	0	<b>41</b>	0	<b>174</b>	0	<b>267</b>	0	<b>25</b>	<b>737</b>	<b>482</b>	<b>10,219</b>	<b>1,568</b>	0	<b>82</b>	0	<b>13,596</b>
<b>Total</b>	<b>8,658</b>	<b>9,293</b>	<b>5,620</b>	<b>11,999</b>	<b>1,165</b>	<b>2,280</b>	<b>3,127</b>	<b>5,624</b>	<b>6,842</b>	<b>3,758</b>	<b>26,483</b>	<b>13,481</b>	<b>42</b>	<b>346</b>	<b>684</b>	<b>99,404</b>



**Exhibit 8c Breakdown of Container Type for each Product Type (Refuse - Citywide)**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non- Food/Non- Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	17.6%	0.7%	8.5%	0.0%	9.5%	40.8%	25.0%	1.4%	0.2%	0.0%	0.0%	10.2%	7.1%
#1 PET Clear/Green Bottles	<b>46.8%</b>	0.0%	<b>79.0%</b>	<b>20.6%</b>	<b>94.0%</b>	<b>44.4%</b>	<b>0.3%</b>	<b>10.3%</b>	<b>3.6%</b>	<b>47.1%</b>	<b>12.5%</b>	<b>16.3%</b>	0.0%	<b>3.4%</b>	<b>21.1%</b>	<b>21.5%</b>
#1 PET Other Color Bottles	<b>0.3%</b>	<b>0.0%</b>	<b>1.1%</b>	<b>7.8%</b>	<b>0.1%</b>	<b>1.7%</b>	<b>0.2%</b>	<b>0.6%</b>	<b>3.9%</b>	<b>1.2%</b>	<b>0.6%</b>	<b>5.1%</b>	0.0%	<b>2.6%</b>	<b>4.9%</b>	<b>2.3%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>6.2%</b>	<b>4.6%</b>	0.0%	<b>0.5%</b>	0.0%	0.0%	<b>35.4%</b>	<b>3.3%</b>	<b>4.2%</b>	<b>10.1%</b>	<b>33.2%</b>	<b>17.2%</b>	<b>11.3%</b>	<b>6.1%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>1.1%</b>	<b>1.3%</b>	0.0%	<b>0.1%</b>	<b>3.9%</b>	<b>0.6%</b>	<b>3.7%</b>	<b>29.2%</b>	<b>66.8%</b>	<b>48.4%</b>	<b>2.8%</b>	<b>5.6%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.6%</b>	<b>0.1%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.4%</b>	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	<b>0.5%</b>	0.0%	<b>2.0%</b>	<b>1.9%</b>	0.0%	<b>0.8%</b>	<b>3.7%</b>	<b>0.9%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>1.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.8%</b>	0.0%	<b>1.3%</b>	<b>1.4%</b>	<b>0.3%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>2.6%</b>	<b>0.1%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>3.9%</b>	0.0%	<b>2.4%</b>	<b>16.2%</b>	<b>0.8%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>7.6%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.2%</b>	<b>0.2%</b>	0.0%	0.0%	<b>1.6%</b>	<b>1.0%</b>
Clear Container Glass	<b>15.8%</b>	<b>38.0%</b>	<b>1.4%</b>	<b>31.4%</b>	0.0%	<b>20.5%</b>	<b>38.4%</b>	<b>72.0%</b>	<b>0.4%</b>	<b>6.8%</b>	<b>30.3%</b>	<b>7.3%</b>	0.0%	0.0%	<b>14.9%</b>	<b>24.0%</b>
Green Container Glass	<b>4.6%</b>	<b>16.1%</b>	<b>11.9%</b>	<b>0.4%</b>	0.0%	0.0%	<b>55.2%</b>	<b>1.4%</b>	0.0%	0.0%	<b>1.2%</b>	<b>2.3%</b>	0.0%	0.0%	<b>7.0%</b>	<b>5.1%</b>
Brown Container Glass	<b>8.8%</b>	<b>31.5%</b>	0.0%	<b>1.6%</b>	0.0%	0.0%	<b>5.2%</b>	<b>4.1%</b>	0.0%	0.0%	<b>1.2%</b>	<b>2.6%</b>	0.0%	0.0%	0.0%	<b>5.0%</b>
Other Color Container Glass	<b>0.3%</b>	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>1.4%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Aluminum Cans	<b>23.5%</b>	<b>13.1%</b>	<b>0.4%</b>	<b>5.5%</b>	<b>3.1%</b>	<b>10.8%</b>	0.0%	<b>0.2%</b>	<b>0.3%</b>	<b>2.6%</b>	<b>3.2%</b>	<b>6.8%</b>	0.0%	0.0%	<b>1.3%</b>	<b>6.2%</b>
Steel/Tin Food Cans	0.0%	<b>0.4%</b>	0.0%	<b>1.5%</b>	0.0%	<b>11.7%</b>	0.0%	<b>0.4%</b>	<b>10.8%</b>	<b>12.8%</b>	<b>38.6%</b>	<b>11.6%</b>	0.0%	<b>23.8%</b>	0.0%	<b>13.7%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 8d Breakdown of Product Type for each Container Type (Refuse - Citywide)**

Relative % (% product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non- Food/Non- Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>30.0%</b>	<b>0.1%</b>	<b>2.8%</b>	0.0%	<b>7.6%</b>	<b>39.7%</b>	<b>13.4%</b>	<b>5.1%</b>	<b>0.5%</b>	0.0%	0.0%	<b>1.0%</b>	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>19.0%</b>	0.0%	<b>20.8%</b>	<b>11.6%</b>	<b>4.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.7%</b>	<b>1.2%</b>	<b>11.6%</b>	<b>15.5%</b>	<b>10.3%</b>	0.0%	<b>0.1%</b>	<b>0.7%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>1.2%</b>	<b>0.1%</b>	<b>2.6%</b>	<b>40.7%</b>	<b>0.0%</b>	<b>1.7%</b>	<b>0.3%</b>	<b>1.5%</b>	<b>11.7%</b>	<b>1.9%</b>	<b>6.5%</b>	<b>29.8%</b>	0.0%	<b>0.4%</b>	<b>1.4%</b>	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>5.8%</b>	<b>9.1%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>39.8%</b>	<b>2.0%</b>	<b>18.2%</b>	<b>22.5%</b>	<b>0.2%</b>	<b>1.0%</b>	<b>1.3%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>0.2%</b>	<b>0.5%</b>	0.0%	<b>0.1%</b>	<b>4.9%</b>	<b>0.4%</b>	<b>18.0%</b>	<b>71.3%</b>	<b>0.5%</b>	<b>3.0%</b>	<b>0.3%</b>	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>64.5%</b>	<b>27.6%</b>	0.0%	0.0%	<b>7.9%</b>	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>8.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>51.0%</b>	<b>34.4%</b>	0.0%	0.0%	<b>6.2%</b>	<b>100.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>2.9%</b>	0.0%	<b>0.9%</b>	0.0%	0.0%	<b>4.1%</b>	0.0%	<b>59.3%</b>	<b>29.6%</b>	0.0%	<b>0.3%</b>	<b>2.9%</b>	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>13.3%</b>	<b>4.1%</b>	0.0%	0.0%	0.0%	<b>4.5%</b>	<b>4.5%</b>	<b>28.9%</b>	<b>39.7%</b>	0.0%	<b>1.6%</b>	<b>3.3%</b>	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>38.6%</b>	0.0%	<b>3.7%</b>	0.0%	0.0%	<b>11.1%</b>	0.0%	<b>9.5%</b>	<b>8.5%</b>	0.0%	0.0%	<b>28.6%</b>	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>1.9%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>13.8%</b>	<b>68.6%</b>	0.0%	<b>1.1%</b>	<b>14.4%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>53.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>46.3%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>90.2%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>	<b>5.3%</b>	<b>2.3%</b>	0.0%	0.0%	<b>1.1%</b>	<b>100.0%</b>
Clear Container Glass	<b>5.7%</b>	<b>14.8%</b>	<b>0.3%</b>	<b>15.8%</b>	0.0%	<b>2.0%</b>	<b>5.0%</b>	<b>17.0%</b>	<b>0.1%</b>	<b>1.1%</b>	<b>33.6%</b>	<b>4.1%</b>	0.0%	0.0%	<b>0.4%</b>	<b>100.0%</b>
Green Container Glass	<b>7.7%</b>	<b>29.3%</b>	<b>13.1%</b>	<b>1.0%</b>	0.0%	0.0%	<b>33.8%</b>	<b>1.6%</b>	0.0%	0.0%	<b>6.4%</b>	<b>6.2%</b>	0.0%	0.0%	<b>0.9%</b>	<b>100.0%</b>
Brown Container Glass	<b>15.4%</b>	<b>59.3%</b>	0.0%	<b>3.8%</b>	0.0%	0.0%	<b>3.3%</b>	<b>4.6%</b>	0.0%	0.0%	<b>6.4%</b>	<b>7.2%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	<b>8.7%</b>	<b>22.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>6.3%</b>	<b>23.8%</b>	0.0%	0.0%	<b>2.8%</b>	<b>36.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Aluminum Cans	<b>33.2%</b>	<b>19.9%</b>	<b>0.4%</b>	<b>10.8%</b>	<b>0.6%</b>	<b>4.0%</b>	0.0%	<b>0.2%</b>	<b>0.4%</b>	<b>1.6%</b>	<b>13.8%</b>	<b>15.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	<b>0.3%</b>	0.0%	<b>1.3%</b>	0.0%	<b>2.0%</b>	0.0%	<b>0.2%</b>	<b>5.4%</b>	<b>3.5%</b>	<b>75.2%</b>	<b>11.5%</b>	0.0%	<b>0.6%</b>	<b>0.0%</b>	<b>100.0%</b>
<b>Total</b>	<b>8.7%</b>	<b>9.3%</b>	<b>5.7%</b>	<b>12.1%</b>	<b>1.2%</b>	<b>2.3%</b>	<b>3.1%</b>	<b>5.7%</b>	<b>6.9%</b>	<b>3.8%</b>	<b>26.6%</b>	<b>13.6%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.7%</b>	<b>100.0%</b>

**Exhibit 9a Citywide Composition of Bottles, Cans and Cartons in Aggregate**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
#1 PET Clear/Green Bottles	0.2%	0.0%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.1%	0.0%	0.0%	0.0%	1.3%
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
#2 HDPE Natural Bottles	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.5%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%	0.0%	0.0%	0.0%	0.4%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	0.1%	0.2%	0.0%	0.3%	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.6%	0.1%	0.0%	0.0%	0.0%	1.8%
Green Container Glass	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%
Brown Container Glass	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.3%
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.7%	0.1%	0.0%	0.0%	0.0%	0.9%
<b>Total</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.3%</b>	<b>0.8%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.3%</b>	<b>1.8%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>7.0%</b>

**Exhibit 9b Citywide Composition of Bottles, Cans and Cartons in Aggregate**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	2	0	0	4,142	10	278	1	605	5,358	1,712	580	68	0	0	106	12,861
#1 PET Clear/Green Bottles	5,687	0	6,458	6,072	2,664	1,457	27	878	482	5,695	6,183	4,318	0	12	271	40,202
#1 PET Other Color Bottles	123	14	119	1,594	12	61	11	62	328	89	355	1,248	9	9	38	4,071
#2 HDPE Natural Bottles	15	15	2,161	1,113	0	14	0	30	7,400	268	1,952	2,565	31	76	108	15,749
#2 HDPE Pigmented Bottles	0	0	0	72	30	36	0	9	919	200	2,076	9,700	56	229	29	13,355
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	1	65	65	0	0	11	142
#4 LDPE/LLDPE Bottles	0	0	0	6	0	0	0	0	0	0	60	24	0	0	3	93
#5 PP Rigid Bottles	0	0	7	43	0	8	0	0	61	0	1,126	361	0	3	43	1,653
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	4	28	0	0	0	32
#7 Other Bottles	0	0	0	101	23	1	0	0	15	21	203	144	20	5	18	550
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	265	0	3	0	0	7	9	9	5	0	0	18	316
Unlabeled Plastic Bottles	0	0	1	15	0	2	0	0	0	0	179	704	4	8	202	1,115
BioPlastic Bottles	0	0	0	32	0	0	0	0	0	0	0	27	0	0	0	59
Film Plastic: Food/Drink Pouches	0	0	0	939	0	3	1	1	1	11	57	23	0	0	11	1,045
Clear Container Glass	2,705	5,417	228	7,794	7	1,111	5,101	10,384	151	1,024	19,504	1,909	0	0	462	55,798
Green Container Glass	1,657	3,466	724	70	0	8	12,861	454	0	12	735	402	0	0	55	20,443
Brown Container Glass	1,059	6,924	0	504	0	6	896	833	0	28	616	502	0	0	2	11,370
Other Color Container Glass	61	166	8	2	0	0	211	356	0	0	9	153	0	0	3	968
Aluminum Cans	2,537	1,457	39	1,107	47	393	0	27	58	151	1,231	1,683	0	0	15	8,745
Steel/Tin Food Cans	0	61	0	318	33	446	0	30	1,737	806	21,184	2,275	0	85	24	26,998
<b>Total</b>	<b>13,846</b>	<b>17,519</b>	<b>9,744</b>	<b>24,189</b>	<b>2,826</b>	<b>3,826</b>	<b>19,108</b>	<b>13,670</b>	<b>16,517</b>	<b>10,028</b>	<b>56,126</b>	<b>26,204</b>	<b>120</b>	<b>426</b>	<b>1,418</b>	<b>215,566</b>

**Exhibit 9c Breakdown of Container Type for each Product type (Aggregate - Citywide)**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	17.1%	0.3%	7.3%	0.0%	4.4%	32.4%	17.1%	1.0%	0.3%	0.0%	0.0%	7.5%	6.0%
#1 PET Clear/Green Bottles	41.1%	0.0%	66.3%	25.1%	94.3%	38.1%	0.1%	6.4%	2.9%	56.8%	11.0%	16.5%	0.0%	2.8%	19.1%	18.6%
#1 PET Other Color Bottles	0.9%	0.1%	1.2%	6.6%	0.4%	1.6%	0.1%	0.5%	2.0%	0.9%	0.6%	4.8%	7.4%	2.1%	2.7%	1.9%
#2 HDPE Natural Bottles	0.1%	0.1%	22.2%	4.6%	0.0%	0.4%	0.0%	0.2%	44.8%	2.7%	3.5%	9.8%	26.2%	17.8%	7.7%	7.3%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.3%	1.1%	0.9%	0.0%	0.1%	5.6%	2.0%	3.7%	37.0%	46.9%	53.6%	2.1%	6.2%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.8%	0.1%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.2%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.1%	0.2%	0.0%	0.2%	0.0%	0.0%	0.4%	0.0%	2.0%	1.4%	0.0%	0.7%	3.0%	0.8%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.4%	0.8%	0.0%	0.0%	0.0%	0.1%	0.2%	0.4%	0.5%	16.2%	1.1%	1.2%	0.3%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	1.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	1.2%	0.1%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.3%	2.7%	3.3%	2.0%	14.2%	0.5%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	3.9%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.8%	0.5%
Clear Container Glass	19.5%	30.9%	2.3%	32.2%	0.3%	29.0%	26.7%	76.0%	0.9%	10.2%	34.8%	7.3%	0.0%	0.0%	32.6%	25.9%
Green Container Glass	12.0%	19.8%	7.4%	0.3%	0.0%	0.2%	67.3%	3.3%	0.0%	0.1%	1.3%	1.5%	0.0%	0.0%	3.9%	9.5%
Brown Container Glass	7.6%	39.5%	0.0%	2.1%	0.0%	0.2%	4.7%	6.1%	0.0%	0.3%	1.1%	1.9%	0.0%	0.0%	0.2%	5.3%
Other Color Container Glass	0.4%	0.9%	0.1%	0.0%	0.0%	0.0%	1.1%	2.6%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.2%	0.4%
Aluminum Cans	18.3%	8.3%	0.4%	4.6%	1.7%	10.3%	0.0%	0.2%	0.4%	1.5%	2.2%	6.4%	0.0%	0.0%	1.0%	4.1%
Steel/Tin Food Cans	0.0%	0.3%	0.0%	1.3%	1.2%	11.7%	0.0%	0.2%	10.5%	8.0%	37.7%	8.7%	0.0%	20.0%	1.7%	12.5%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 9d Breakdown of Product type for each Container Type (Aggregate - Citywide)**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	32.2%	0.1%	2.2%	0.0%	4.7%	41.7%	13.3%	4.5%	0.5%	0.0%	0.0%	0.8%	100.0%
#1 PET Clear/Green Bottles	14.1%	0.0%	16.1%	15.1%	6.6%	3.6%	0.1%	2.2%	1.2%	14.2%	15.4%	10.7%	0.0%	0.0%	0.7%	100.0%
#1 PET Other Color Bottles	3.0%	0.3%	2.9%	39.1%	0.3%	1.5%	0.3%	1.5%	8.1%	2.2%	8.7%	30.6%	0.2%	0.2%	0.9%	100.0%
#2 HDPE Natural Bottles	0.1%	0.1%	13.7%	7.1%	0.0%	0.1%	0.0%	0.2%	47.0%	1.7%	12.4%	16.3%	0.2%	0.5%	0.7%	100.0%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.5%	0.2%	0.3%	0.0%	0.1%	6.9%	1.5%	15.5%	72.6%	0.4%	1.7%	0.2%	100.0%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	45.9%	45.6%	0.0%	0.0%	7.7%	100.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.6%	25.5%	0.0%	0.0%	3.0%	100.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.5%	2.6%	0.0%	0.5%	0.0%	0.0%	3.7%	0.0%	68.1%	21.9%	0.0%	0.2%	2.6%	100.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.5%	88.5%	0.0%	0.0%	0.0%	100.0%
#7 Other Bottles	0.0%	0.0%	0.0%	18.4%	4.1%	0.1%	0.0%	0.0%	2.8%	3.9%	36.9%	26.1%	3.6%	0.8%	3.2%	100.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	83.8%	0.0%	1.0%	0.0%	0.0%	2.2%	2.9%	2.8%	1.6%	0.0%	0.0%	5.6%	100.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.1%	1.3%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	16.0%	63.2%	0.4%	0.8%	18.1%	100.0%
BioPlastic Bottles	0.0%	0.0%	0.7%	53.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	45.7%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	89.8%	0.0%	0.3%	0.1%	0.1%	0.1%	1.0%	5.5%	2.2%	0.0%	0.0%	1.0%	100.0%
Clear Container Glass	4.8%	9.7%	0.4%	14.0%	0.0%	2.0%	9.1%	18.6%	0.3%	1.8%	35.0%	3.4%	0.0%	0.0%	0.8%	100.0%
Green Container Glass	8.1%	17.0%	3.5%	0.3%	0.0%	0.0%	62.9%	2.2%	0.0%	0.1%	3.6%	2.0%	0.0%	0.0%	0.3%	100.0%
Brown Container Glass	9.3%	60.9%	0.0%	4.4%	0.0%	0.1%	7.9%	7.3%	0.0%	0.2%	5.4%	4.4%	0.0%	0.0%	0.0%	100.0%
Other Color Container Glass	6.3%	17.1%	0.8%	0.2%	0.0%	0.0%	21.8%	36.8%	0.0%	0.0%	0.9%	15.8%	0.0%	0.0%	0.3%	100.0%
Aluminum Cans	29.0%	16.7%	0.4%	12.7%	0.5%	4.5%	0.0%	0.3%	0.7%	1.7%	14.1%	19.2%	0.0%	0.0%	0.2%	100.0%
Steel/Tin Food Cans	0.0%	0.2%	0.0%	1.2%	0.1%	1.7%	0.0%	0.1%	6.4%	3.0%	78.5%	8.4%	0.0%	0.3%	0.1%	100.0%
<b>Total</b>	<b>6.4%</b>	<b>8.1%</b>	<b>4.5%</b>	<b>11.2%</b>	<b>1.3%</b>	<b>1.8%</b>	<b>8.9%</b>	<b>6.3%</b>	<b>7.7%</b>	<b>4.7%</b>	<b>26.0%</b>	<b>12.2%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.7%</b>	<b>100.0%</b>

**Exhibit 10a Citywide MGP - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	<b>8.7%</b>	<b>0.8%</b>	<b>4.5%</b>	<b>3.6%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>18.5%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>1.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>		<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>1.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>1.7%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>		<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>1.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>		0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.4%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%		<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.3%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%		0.0%	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>	<b>2.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>		<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.8%</b>
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>		<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.4%</b>	<b>1.5%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.2%</b>	0.0%	0.0%	0.0%	<b>3.2%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
<b>Total</b>		<b>10.5%</b>		<b>4.6%</b>	<b>4.2%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>2.2%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>4.4%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>5.3%</b>	<b>32.7%</b>

**Exhibit 10b Citywide MGP - Plastic Resin Composition**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	<b>18,451</b>	<b>1,719</b>	<b>9,515</b>	<b>7,739</b>	<b>91</b>	<b>47</b>	<b>761</b>	<b>10</b>	<b>0</b>	<b>245</b>	<b>255</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>335</b>	<b>39,170</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>2,025</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>2,025</b>	
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>4</b>		<b>29</b>	<b>146</b>	<b>0</b>	<b>229</b>	<b>2,370</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>861</b>	<b>3,653</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0		0	0	0	0	0	<b>680</b>	0	0	0	0	0	0	0	0	<b>680</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>15</b>		<b>11</b>	<b>125</b>	<b>27</b>	<b>67</b>	<b>618</b>	<b>3</b>	<b>0</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1,133</b>	<b>2,069</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>85</b>		0	0	0	0	<b>194</b>	<b>301</b>	<b>66</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>145</b>	<b>796</b>	
Appliances: Plastic	Other Rigid Plastic	0		<b>21</b>	0	0	0	<b>47</b>	0	0	0	0	0	0	0	0	<b>705</b>	<b>773</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0		0	0	0	0	<b>37</b>	0	0	0	0	0	0	0	0	<b>677</b>	<b>714</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0		0	<b>327</b>	<b>0</b>	<b>39</b>	<b>388</b>	0	0	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,556</b>	<b>4,316</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>4</b>		<b>86</b>	<b>646</b>	<b>0</b>	<b>44</b>	<b>92</b>	0	0	0	0	0	0	0	0	<b>841</b>	<b>1,712</b>	
Other PVC	Other Rigid Plastic	0		0	0	<b>52</b>	0	0	0	0	0	0	0	0	0	0	0	<b>52</b>	
Other Plastics	Other Rigid Plastic	<b>11</b>		<b>1</b>	<b>28</b>	0	<b>4</b>	<b>156</b>	0	<b>14</b>	<b>15</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,944</b>	<b>3,174</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0		0	0	0	0	0	0	<b>218</b>	0	0	0	0	0	0	0	<b>218</b>	
Film Plastic: Retail Bags and Sleeves	Film	0		0	0	0	0	0	0	0	0	0	0	<b>1,862</b>	0	0	0	<b>1,862</b>	
Film Plastic: Garbage Bags	Film	0		0	0	0	0	0	0	0	0	0	0	<b>6,804</b>	0	0	0	<b>6,804</b>	
Film Plastic: Food/Drink Pouches	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>25</b>	0	0	<b>25</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0		0	0	0	0	0	0	0	0	0	0	<b>746</b>	0	0	0	<b>746</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>534</b>	0	0	<b>534</b>	
<b>Total</b>		<b>22,313</b>		<b>9,663</b>	<b>9,011</b>	<b>171</b>	<b>431</b>	<b>4,663</b>	<b>3</b>	<b>1,004</b>	<b>283</b>	<b>340</b>	<b>263</b>	<b>1</b>	<b>9,413</b>	<b>559</b>	<b>8</b>	<b>11,198</b>	<b>69,323</b>

**Exhibit 10c Citywide MGP - Plastic Resin Type Breakdown by Plastic Subcategory**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>82.7%</b>	<b>7.7%</b>	<b>98.5%</b>	<b>85.9%</b>	<b>53.2%</b>	<b>11.0%</b>	<b>16.3%</b>	0.0%	<b>0.9%</b>	0.0%	<b>72.1%</b>	<b>97.0%</b>	0.0%	0.0%	0.0%	<b>10.3%</b>	<b>3.0%</b>	<b>56.5%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>9.1%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.9%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.3%</b>	<b>1.6%</b>	<b>0.2%</b>	<b>53.1%</b>	<b>50.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.6%</b>	<b>3.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>7.7%</b>	<b>5.3%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>67.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.1%</b>	<b>0.1%</b>	<b>1.4%</b>	<b>15.8%</b>	<b>15.5%</b>	<b>13.3%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>19.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>74.8%</b>	<b>10.1%</b>	<b>3.0%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.2%</b>	0.0%	<b>30.0%</b>	<b>23.2%</b>	<b>1.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>14.9%</b>	<b>1.3%</b>	<b>1.1%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.3%</b>	<b>1.1%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.0%</b>	<b>1.0%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>3.6%</b>	<b>0.2%</b>	<b>9.1%</b>	<b>8.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>31.8%</b>	<b>6.2%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>	<b>0.9%</b>	<b>7.2%</b>	0.0%	<b>10.3%</b>	<b>2.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.5%</b>	<b>2.5%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>30.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	0.0%	<b>1.0%</b>	<b>3.4%</b>	0.0%	0.0%	<b>1.4%</b>	0.0%	<b>4.3%</b>	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>26.3%</b>	<b>4.6%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>76.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>19.8%</b>	0.0%	0.0%	0.0%	<b>2.7%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>72.3%</b>	0.0%	0.0%	0.0%	<b>9.8%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.4%</b>	0.0%	0.0%	<b>0.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.9%</b>	0.0%	0.0%	0.0%	<b>1.1%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>95.6%</b>	0.0%	0.0%	<b>0.8%</b>	
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	

**Exhibit 10d Citywide MGP - Plastic Subcategory Breakdown by Resin Type**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>47.1%</b>	<b>4.4%</b>	<b>24.3%</b>	<b>19.8%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>1.9%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.6%</b>	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.9%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.1%</b>	<b>0.8%</b>	<b>4.0%</b>	<b>0.0%</b>	<b>6.3%</b>	<b>64.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>23.6%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.7%</b>	<b>0.5%</b>	<b>6.0%</b>	<b>1.3%</b>	<b>3.2%</b>	<b>29.9%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>3.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>54.8%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>10.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>24.3%</b>	0.0%	<b>37.8%</b>	<b>8.3%</b>	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>18.2%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>2.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>6.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>91.2%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>94.8%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>7.6%</b>	<b>0.0%</b>	<b>0.9%</b>	<b>9.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>82.4%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.2%</b>	<b>5.0%</b>	<b>37.7%</b>	0.0%	<b>2.6%</b>	<b>5.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>49.1%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.3%</b>	<b>0.0%</b>	<b>0.9%</b>	0.0%	<b>0.1%</b>	<b>4.9%</b>	0.0%	0.0%	<b>0.4%</b>	0.0%	<b>0.5%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>92.7%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>32.2%</b>		<b>13.9%</b>	<b>13.0%</b>	<b>0.2%</b>	<b>0.6%</b>	<b>6.7%</b>	<b>0.0%</b>	<b>1.4%</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>13.6%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>16.2%</b>	<b>100.0%</b>

**Exhibit 11a Citywide Paper - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE											#5 PP Rigid
Plastic Bottles	Rigid Containers/Packaging	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
#1 PET Thermoforms	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Total</b>		<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.4%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>2.5%</b>

**Exhibit 11b Citywide Paper - Plastic Resin Composition**

Absolute Composition, Tons

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE											#5 PP Rigid
Plastic Bottles	Rigid Containers/Packaging	406	55	149	93	0	0	18	0	17	0	0	0	0	0	0	9	747
#1 PET Thermoforms	Rigid Containers/Packaging	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0	0	0	18	0	9	67	0	4	0	0	0	0	0	0	43	142
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	46
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0	0	3	3	0	0	62	0	4	0	0	0	0	0	0	208	279
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	7	0	0	0	0	0	16	0	26	22	0	0	0	0	0	66	137
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	54
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	0	0	0	3	2	0	13	0	0	0	0	0	0	99	118
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	17	0	0	0	20	0	1	0	0	0	0	0	0	84	123
Other PVC	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Plastics	Other Rigid Plastic	1	0	2	0	0	1	2	0	2	0	0	0	0	0	0	499	508
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	425	0	0	0	0	0	0	0	425
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	428	0	0	428
<b>Total</b>		<b>583</b>	<b>55</b>	<b>149</b>	<b>134</b>	<b>3</b>	<b>13</b>	<b>187</b>	<b>0</b>	<b>88</b>	<b>447</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>4,101</b>	<b>432</b>	<b>0</b>	<b>7,224</b>

**Exhibit 11c Citywide Paper - Plastic Resin Type Breakdown by Plastic Subcategory**

Relative % (% of subcategory for that resin)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	69.6%	9.4%	99.7%	69.4%	0.0%	0.0%	9.9%	0.0%	0.0%	69.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	10.3%
#1 PET Thermoforms	Rigid Containers/Packaging	19.5%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.3%	0.3%	13.6%	0.0%	70.6%	35.7%	0.0%	0.0%	15.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.1%	2.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	52.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	2.3%	100.0%	0.0%	33.0%	0.0%	0.0%	14.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	19.6%	3.9%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	8.6%	0.0%	29.3%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	1.9%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%	0.7%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	25.2%	1.1%	0.0%	14.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.3%	1.6%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	13.0%	0.0%	0.0%	10.5%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%	1.7%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.2%	0.0%	0.0%	1.7%	0.0%	4.2%	1.2%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.0%	7.0%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.4%	0.0%	0.0%	0.0%	0.0%	8.2%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	73.5%	0.0%	0.0%	0.0%	0.0%	41.7%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.1%	0.0%	0.0%	0.0%	0.0%	6.9%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	99.1%	0.0%	0.0%	0.0%	5.9%
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 11d Citywide Paper - Plastic Subcategory Breakdown by Resin Type**

Relative % (% of resin for that category)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	54.3%	7.4%	19.9%	12.5%	0.0%	0.0%	2.5%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	100.0%
#1 PET Thermoforms	Rigid Containers/Packaging	100.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.3%	0.3%	12.9%	0.0%	6.5%	47.0%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.6%	100.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	1.1%	0.9%	0.0%	22.1%	0.0%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	74.6%	100.0%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	5.4%	0.0%	0.0%	0.0%	0.0%	0.0%	11.8%	0.0%	18.9%	15.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	48.2%	100.0%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	1.8%	0.0%	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.3%	100.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	14.3%	0.0%	0.0%	16.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	68.8%	100.0%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.2%	0.0%	0.0%	0.5%	0.0%	0.1%	0.4%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	98.3%	100.0%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
<b>Total</b>		<b>8.1%</b>		<b>2.1%</b>	<b>1.9%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>2.6%</b>	<b>0.0%</b>	<b>1.2%</b>	<b>6.2%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>56.8%</b>	<b>6.0%</b>	<b>0.0%</b>	<b>14.7%</b>	<b>100.0%</b>

**Exhibit 12a Citywide Refuse - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	<b>0.8%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.4%</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.7%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>	<b>0.6%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.9%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.3%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.6%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.7%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.7%</b>	0.0%	0.0%	0.0%	<b>2.7%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.6%</b>	0.0%	0.0%	0.0%	<b>2.6%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.3%</b>	0.0%	0.0%	0.0%	<b>1.3%</b>
<b>Total</b>			<b>1.2%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>6.2%</b>	<b>1.3%</b>	<b>0.0%</b>	<b>2.5%</b>	<b>13.7%</b>

**Exhibit 12b Citywide Refuse - Plastic Resin Composition**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded								
Plastic Bottles	Rigid Containers/Packaging	<b>21,346</b>	<b>2,297</b>	<b>6,085</b>	<b>5,523</b>	<b>51</b>	<b>45</b>	<b>873</b>	<b>23</b>	<b>288</b>	<b>62</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>58</b>	<b>771</b>	<b>37,421</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>2,529</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>2,529</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>1,301</b>		<b>145</b>	<b>599</b>	<b>17</b>	<b>403</b>	<b>6,860</b>	0	0	<b>154</b>	0	0	0	0	0	0	<b>7,546</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	<b>4,469</b>	0	0	0	0	0	0	0	0	<b>4,469</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>1,389</b>		<b>33</b>	<b>439</b>	<b>118</b>	<b>138</b>	<b>3,045</b>	<b>71</b>	<b>279</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>9,635</b>	<b>15,208</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>1,148</b>		0	0	0	0	<b>2,188</b>	<b>4,491</b>	<b>10,237</b>	<b>199</b>	0	0	0	0	<b>2</b>	<b>5,726</b>	<b>23,991</b>
Appliances: Plastic	Other Rigid Plastic	0	0	<b>288</b>	0	0	0	0	<b>20</b>	0	0	0	0	0	0	0	0	<b>6,202</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	<b>2</b>	0	0	0	0	0	0	0	0	0	<b>406</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	<b>11</b>		<b>201</b>	<b>15</b>	<b>248</b>	<b>815</b>	<b>23</b>	<b>7</b>	<b>117</b>	0	0	0	0	0	0	0	<b>14,447</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>3</b>		<b>1,551</b>	0	<b>22</b>	<b>177</b>	0	<b>93</b>	0	<b>3</b>	0	0	0	0	0	0	<b>1,867</b>
Other PVC	Other Rigid Plastic	0	0	0	<b>1,189</b>	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,189</b>
Other Plastics	Other Rigid Plastic	<b>64</b>		<b>3</b>	<b>646</b>	0	<b>3</b>	<b>214</b>	<b>11</b>	<b>47</b>	0	0	0	0	0	0	0	<b>18,247</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	<b>13,546</b>	0	0	0	0	0	0	0	<b>13,546</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	<b>69,470</b>	0	0	0	<b>69,470</b>
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	<b>67,522</b>	0	0	0	<b>67,522</b>
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,016</b>	0	0	<b>1,016</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	<b>23,303</b>	0	0	0	<b>23,303</b>
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>32,589</b>	0	0	<b>32,589</b>
<b>Total</b>		<b>30,077</b>		<b>6,277</b>	<b>9,247</b>	<b>1,390</b>	<b>861</b>	<b>14,174</b>	<b>83</b>	<b>9,165</b>	<b>23,783</b>	<b>930</b>	<b>84</b>	<b>117</b>	<b>160,295</b>	<b>33,605</b>	<b>100</b>	<b>64,847</b>



**Exhibit 12c Citywide Refuse - Plastic Resin Type Breakdown by Plastic Subcategory**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>71.0%</b>	<b>7.6%</b>	<b>96.9%</b>	<b>59.7%</b>	<b>3.6%</b>	<b>5.3%</b>	<b>6.2%</b>	0.0%	<b>0.2%</b>	0.0%	<b>30.9%</b>	<b>73.5%</b>	0.0%	0.0%	0.0%	<b>58.2%</b>	<b>1.2%</b>	<b>10.5%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>8.4%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>4.3%</b>	<b>2.3%</b>	<b>6.5%</b>	<b>1.2%</b>	<b>46.9%</b>	<b>48.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>16.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.6%</b>	<b>4.8%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>48.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.3%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>4.6%</b>	<b>0.5%</b>	<b>4.7%</b>	<b>8.5%</b>	<b>16.1%</b>	<b>21.5%</b>	<b>86.2%</b>	0.0%	0.0%	0.0%	<b>30.0%</b>	<b>26.5%</b>	0.0%	0.0%	0.0%	<b>39.5%</b>	<b>14.9%</b>	<b>4.3%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>3.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>15.4%</b>	0.0%	<b>49.0%</b>	<b>43.0%</b>	<b>21.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.4%</b>	<b>8.8%</b>	<b>6.8%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	<b>3.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.6%</b>	<b>1.8%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>0.1%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.2%</b>	<b>2.2%</b>	<b>1.1%</b>	<b>28.8%</b>	<b>5.7%</b>	0.0%	0.0%	<b>0.3%</b>	0.0%	<b>0.8%</b>	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>22.3%</b>	<b>4.5%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>	<b>16.8%</b>	0.0%	<b>2.6%</b>	<b>1.2%</b>	<b>1.0%</b>	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.9%</b>	<b>1.0%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>85.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	
Other Plastics	Other Rigid Plastic	<b>0.2%</b>	<b>0.0%</b>	<b>7.0%</b>	0.0%	<b>0.3%</b>	<b>1.5%</b>	<b>13.8%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>28.1%</b>	<b>5.4%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>57.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.8%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>43.3%</b>	0.0%	0.0%	0.0%	<b>19.6%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>42.1%</b>	0.0%	0.0%	0.0%	<b>19.0%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.0%</b>	0.0%	0.0%	<b>0.3%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.5%</b>	0.0%	0.0%	0.0%	<b>6.6%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.0%</b>	0.0%	0.0%	<b>9.2%</b>	
<b>Total</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	

**Exhibit 12d Citywide Refuse - Plastic Subcategory Breakdown by Resin Type**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>57.0%</b>	<b>6.1%</b>	<b>16.3%</b>	<b>14.8%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>2.3%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.8%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>2.1%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>7.6%</b>	<b>0.9%</b>	<b>3.5%</b>	<b>0.1%</b>	<b>2.4%</b>	<b>40.3%</b>	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>44.3%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>9.1%</b>	<b>0.2%</b>	<b>2.9%</b>	<b>0.8%</b>	<b>0.9%</b>	<b>20.0%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>1.8%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>63.3%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>4.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.1%</b>	0.0%	<b>18.7%</b>	<b>42.7%</b>	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>23.9%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	<b>4.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>95.3%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>99.4%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.1%</b>	<b>1.3%</b>	<b>0.1%</b>	<b>1.6%</b>	<b>5.1%</b>	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>91.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.1%</b>	0.0%	<b>41.7%</b>	0.0%	<b>0.6%</b>	<b>4.8%</b>	0.0%	0.0%	<b>2.5%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>50.3%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.3%</b>	<b>0.0%</b>	<b>3.4%</b>	0.0%	<b>0.0%</b>	<b>1.1%</b>	<b>0.1%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>94.9%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>8.5%</b>	<b>1.8%</b>	<b>2.6%</b>	<b>0.4%</b>	<b>0.2%</b>	<b>4.0%</b>	<b>0.0%</b>	<b>2.6%</b>	<b>6.7%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>45.1%</b>	<b>9.5%</b>	<b>0.0%</b>	<b>18.3%</b>	<b>100.0%</b>	

**Exhibit 13a Citywide Aggregate - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	<b>1.3%</b>	<b>0.1%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.5%</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.7%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.6%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>		0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.8%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.2%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.7%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>0.7%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.5%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>1.1%</b>
<b>Total</b>			<b>1.7%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>5.6%</b>	<b>1.1%</b>	<b>0.0%</b>	<b>2.5%</b>	<b>14.0%</b>

**Exhibit 13b Citywide Aggregate - Plastic Resin Composition**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	<b>40,202</b>	<b>4,071</b>	<b>15,749</b>	<b>13,355</b>	<b>142</b>	<b>93</b>	<b>1,653</b>	<b>32</b>	<b>550</b>	<b>316</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>1,115</b>	<b>77,338</b>	
#1 PET Thermoforms	Rigid Containers/Packaging		<b>4,669</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>4,669</b>	
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		<b>1,305</b>	<b>175</b>	<b>763</b>	<b>17</b>	<b>642</b>	<b>9,297</b>	<b>0</b>	<b>0</b>	<b>164</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,451</b>	<b>20,821</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	<b>5,194</b>	0	0	0	0	0	0	0	0	<b>5,194</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>1,404</b>	<b>44</b>	<b>567</b>	<b>147</b>	<b>205</b>	<b>3,725</b>	<b>74</b>	<b>0</b>	<b>347</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>10,975</b>	<b>17,556</b>		
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>1,240</b>	0	0	0	0	0	<b>2,398</b>	<b>4,817</b>	<b>10,325</b>	<b>204</b>	0	0	0	0	0	<b>4</b>	<b>5,937</b>	<b>24,924</b>
Appliances: Plastic	Other Rigid Plastic	0	<b>21</b>	<b>288</b>	0	0	0	<b>47</b>	<b>20</b>	0	0	0	0	0	0	0	<b>6,960</b>	<b>7,336</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	<b>39</b>	0	0	0	0	0	0	0	0	<b>1,083</b>	<b>1,122</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	<b>11</b>	<b>528</b>	<b>15</b>	<b>291</b>	<b>1,205</b>	<b>36</b>	<b>117</b>	0	0	0	0	0	0	0	0	<b>18,103</b>	<b>20,318</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>6</b>	<b>86</b>	<b>2,214</b>	0	<b>67</b>	<b>288</b>	0	<b>94</b>	0	<b>3</b>	0	0	0	0	0	<b>2,792</b>	<b>5,551</b>	
Other PVC	Other Rigid Plastic	0	0	0	<b>1,242</b>	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,242</b>	
Other Plastics	Other Rigid Plastic	<b>76</b>	<b>4</b>	<b>677</b>	0	<b>8</b>	<b>372</b>	<b>11</b>	<b>63</b>	<b>15</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21,690</b>	<b>22,918</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	<b>14,188</b>	0	0	0	0	0	0	0	<b>14,188</b>	
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	<b>71,923</b>	0	0	0	<b>71,923</b>	
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	<b>77,341</b>	0	0	0	<b>77,341</b>	
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,045</b>	0	0	<b>1,045</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	<b>24,545</b>	0	0	0	<b>24,545</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>33,551</b>	0	0	<b>33,551</b>	
<b>Total</b>			<b>52,973</b>	<b>16,089</b>	<b>18,393</b>	<b>1,563</b>	<b>1,305</b>	<b>19,023</b>	<b>85</b>	<b>10,257</b>	<b>24,513</b>	<b>1,294</b>	<b>346</b>	<b>118</b>	<b>173,809</b>	<b>34,596</b>	<b>108</b>	<b>77,107</b>	<b>431,580</b>

**Exhibit 13c Citywide Aggregate - Plastic Resin Type Breakdown by Plastic Subcategory**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>75.9%</b>	<b>7.7%</b>	<b>97.9%</b>	<b>72.6%</b>	<b>9.1%</b>	<b>7.1%</b>	<b>8.7%</b>	0.0%	<b>0.3%</b>	0.0%	<b>42.5%</b>	<b>91.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>54.7%</b>	<b>1.4%</b>	<b>17.9%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>8.8%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>2.5%</b>	<b>1.1%</b>	<b>4.1%</b>	<b>1.1%</b>	<b>49.2%</b>	<b>48.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>12.6%</b>	<b>2.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.0%</b>	<b>4.8%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>50.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>2.7%</b>	<b>0.3%</b>	<b>3.1%</b>	<b>9.4%</b>	<b>15.7%</b>	<b>19.6%</b>	<b>86.6%</b>	0.0%	0.0%	0.0%	<b>26.8%</b>	<b>6.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>42.0%</b>	<b>14.2%</b>	<b>4.1%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>2.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>12.6%</b>	0.0%	<b>47.0%</b>	<b>42.1%</b>	<b>15.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.3%</b>	<b>7.7%</b>	<b>5.8%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>0.1%</b>	<b>1.6%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.0%</b>	<b>1.7%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>	<b>0.3%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.1%</b>	<b>2.9%</b>	<b>1.0%</b>	<b>22.3%</b>	<b>6.3%</b>	0.0%	0.0%	<b>0.4%</b>	0.0%	<b>0.9%</b>	0.0%	<b>99.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>23.5%</b>	<b>4.7%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>	<b>0.5%</b>	<b>12.0%</b>	0.0%	<b>5.1%</b>	<b>1.5%</b>	0.0%	0.0%	<b>0.9%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.6%</b>	<b>1.3%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>79.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
Other Plastics	Other Rigid Plastic	<b>0.1%</b>	<b>0.0%</b>	<b>3.7%</b>	0.0%	<b>0.6%</b>	<b>2.0%</b>	<b>13.4%</b>	<b>0.6%</b>	0.0%	0.0%	<b>1.1%</b>	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>28.1%</b>	<b>5.3%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>57.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.3%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>41.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>16.7%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>44.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>17.9%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>5.7%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.0%</b>	0.0%	0.0%	0.0%	<b>7.8%</b>
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 13d Citywide Aggregate - Plastic Subcategory Breakdown by Resin Type**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>52.0%</b>	<b>5.3%</b>	<b>20.4%</b>	<b>17.3%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>2.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.7%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>1.4%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>6.3%</b>	<b>0.8%</b>	<b>3.7%</b>	<b>0.1%</b>	<b>3.1%</b>	<b>44.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>40.6%</b>	<b>100.0%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>8.0%</b>	<b>0.2%</b>	<b>3.2%</b>	<b>0.8%</b>	<b>1.2%</b>	<b>21.2%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>2.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>62.5%</b>	<b>100.0%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>5.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.6%</b>	0.0%	<b>19.3%</b>	<b>41.4%</b>	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>23.8%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>0.3%</b>	<b>3.9%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>94.9%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>96.5%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.1%</b>	<b>2.6%</b>	<b>0.1%</b>	<b>1.4%</b>	<b>5.9%</b>	0.0%	0.0%	<b>0.2%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>89.1%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.1%</b>	<b>1.5%</b>	<b>39.9%</b>	0.0%	<b>1.2%</b>	<b>5.2%</b>	0.0%	0.0%	<b>1.7%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>50.3%</b>	<b>100.0%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.3%</b>	<b>0.0%</b>	<b>3.0%</b>	0.0%	<b>0.0%</b>	<b>1.6%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>94.6%</b>	<b>100.0%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>12.3%</b>		<b>3.7%</b>	<b>4.3%</b>	<b>0.4%</b>	<b>0.3%</b>	<b>4.4%</b>	<b>0.0%</b>	<b>2.4%</b>	<b>5.7%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>40.3%</b>	<b>8.0%</b>	<b>0.0%</b>	<b>17.9%</b>	<b>100.0%</b>	

**Exhibit 14 a Capture Rate - Targeted Recyclables Based on Program Prior to April 2013  
(Plastic Bottles Only)**

Material	Citywide			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>269,330</b>	<b>308,297</b>	<b>577,627</b>	<b>46.6%</b>
Newspaper	60,107	40,929	101,035	59.5%
Plain OCC/Kraft Paper	96,307	39,731	136,039	70.8%
High Grade Paper	16,966	24,011	40,977	41.4%
Mixed Low Grade Paper	91,099	195,616	286,715	31.8%
Paper Beverage Cartons/Aseptic Boxes	4,852	8,010	12,861	37.7%
<b>Plastic</b>	<b>39,170</b>	<b>38,168</b>	<b>77,338</b>	<b>50.6%</b>
#1 PET Bottles	20,170	24,104	44,274	45.6%
#2 HDPE Bottles	17,255	11,850	29,104	59.3%
Other Plastic Bottles	1,745	2,214	3,960	44.1%
<b>Glass</b>	<b>78,969</b>	<b>44,705</b>	<b>123,674</b>	<b>63.9%</b>
Clear Container Glass	31,549	24,248	55,798	56.5%
Green Container Glass	15,262	5,181	20,443	74.7%
Brown Container Glass	6,329	5,041	11,370	55.7%
Other Color Container Glass	641	327	968	66.3%
Mixed Cullet	25,187	9,908	35,095	71.8%
<b>Metal</b>	<b>32,885</b>	<b>76,404</b>	<b>109,288</b>	<b>30.1%</b>
Aluminum Cans	2,491	6,254	8,745	28.5%
Aluminum Foil/Containers	1,793	12,925	14,717	12.2%
Other Aluminum	593	2,156	2,749	21.6%
Other Non-Ferrous	931	2,597	3,528	26.4%
Steel/Tin Food Cans	13,141	13,857	26,998	48.7%
Empty Aerosol Cans	1,694	2,657	4,351	38.9%
Other Ferrous	6,319	18,571	24,891	25.4%
Mixed Metals	1,824	11,798	13,622	13.4%
Appliances: Ferrous	3,395	5,189	8,584	39.6%
Appliances: Non-Ferrous	704	399	1,104	63.8%
<b>Non-Targeted Materials</b>		<b>2,197,922</b>	<b>2,197,922</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>420,354</b>	<b>467,573</b>	<b>887,927</b>	<b>47.3%</b>
<b>Summary</b>				
Targeted MGP - Aggregate	155,875	167,286	323,161	48.2%
Targeted Paper - Aggregate	264,479	300,287	564,766	46.8%

**Exhibit 14b Capture Rate - Targeted Recyclables Based on Program After April 2013  
(All Rigid Plastics)**

Material	Citywide			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>269,330</b>	<b>308,297</b>	<b>577,627</b>	<b>46.6%</b>
Newspaper	60,107	40,929	101,035	59.5%
Plain OCC/Kraft Paper	96,307	39,731	136,039	70.8%
High Grade Paper	16,966	24,011	40,977	41.4%
Mixed Low Grade Paper	91,099	195,616	286,715	31.8%
Paper Beverage Cartons/Aseptic Boxes	4,852	8,010	12,861	37.7%
<b>Plastic</b>	<b>59,068</b>	<b>139,594</b>	<b>198,663</b>	<b>29.7%</b>
#1 PET Bottles	20,170	24,104	44,274	45.6%
#2 HDPE Bottles	17,255	11,850	29,104	59.3%
Other Plastic Bottles	1,745	2,214	3,960	44.1%
Rigid Plastic Containers/Packaging	8,427	39,812	48,240	17.5%
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	730	13,869	14,599	5.0%
Appliances: Plastic	773	6,563	7,336	10.5%
Bulk/Rigid Plastic	6,742	20,249	26,991	25.0%
Other Plastics	3,227	20,933	24,159	13.4%
<b>Glass</b>	<b>78,969</b>	<b>44,705</b>	<b>123,674</b>	<b>63.9%</b>
Clear Container Glass	31,549	24,248	55,798	56.5%
Green Container Glass	15,262	5,181	20,443	74.7%
Brown Container Glass	6,329	5,041	11,370	55.7%
Other Color Container Glass	641	327	968	66.3%
Mixed Cullet	25,187	9,908	35,095	71.8%
<b>Metal</b>	<b>32,885</b>	<b>76,404</b>	<b>109,288</b>	<b>30.1%</b>
Aluminum Cans	2,491	6,254	8,745	28.5%
Aluminum Foil/Containers	1,793	12,925	14,717	12.2%
Other Aluminum	593	2,156	2,749	21.6%
Other Non-Ferrous	931	2,597	3,528	26.4%
Steel/Tin Food Cans	13,141	13,857	26,998	48.7%
Empty Aerosol Cans	1,694	2,657	4,351	38.9%
Other Ferrous	6,319	18,571	24,891	25.4%
Mixed Metals	1,824	11,798	13,622	13.4%
Appliances: Ferrous	3,395	5,189	8,584	39.6%
Appliances: Non-Ferrous	704	399	1,104	63.8%
<b>Non-Targeted Materials</b>		<b>2,076,598</b>	<b>2,076,598</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>440,252</b>	<b>569,000</b>	<b>1,009,252</b>	<b>43.6%</b>
<b>Summary</b>				
Targeted MGP - Aggregate	175,773	268,713	444,486	39.5%
Targeted Paper - Aggregate	264,479	300,287	564,766	46.8%

**Exhibit 15a Incidence of Refuse in MGP Stream**

Material	Citywide	
	Tons	Percent
Paper	14,617	6.9%
Targeted Recyclable Paper	7,816	3.7%
<b>Paper Beverage Cartons/Aseptic Boxes</b>	<b>4,852</b>	<b>2.3%</b>
Other Paper	1,949	0.9%
Plastic	69,323	32.7%
<b>Targeted Recyclable Plastic Bottles</b>	<b>39,170</b>	<b>18.5%</b>
<b>Other Rigid Plastics</b>	<b>19,898</b>	<b>9.4%</b>
Film Plastic	9,972	4.7%
Foam Plastics	283	0.1%
Glass	81,533	38.4%
<b>Targeted Recyclable Glass</b>	<b>78,969</b>	<b>37.2%</b>
Other Glass	2,564	1.2%
Metal	32,885	15.5%
<b>Aluminum Cans</b>	<b>2,491</b>	<b>1.2%</b>
<b>Steel Cans</b>	<b>13,141</b>	<b>6.2%</b>
<b>Other Nonferrous Metal</b>	<b>3,317</b>	<b>1.6%</b>
<b>Other Ferrous Metal</b>	<b>13,936</b>	<b>6.6%</b>
Organics	8,360	3.9%
Food Waste	5,438	2.6%
Other Organics	2,922	1.4%
E-Waste	1,577	0.7%
Construction & Demolition Debris	674	0.3%
Special Waste	1,326	0.6%
Misc. Inorganics	1,962	0.9%
<b>Total</b>	<b>212,257</b>	<b>100.0%</b>
<b>Summary</b>		
<b>Targeted MGP</b>	<b>175,773</b>	<b>82.8%</b>
Contaminants	36,484	17.2%
Targeted Paper	7,816	3.7%
Refuse	28,668	13.5%

***Bold** text indicates targeted MGP materials*

**Exhibit 15b Incidence of Refuse in Paper Stream**

Material	Citywide	
	Tons	Percent
Paper	269,649	94.5%
<b>Targeted Recyclable Paper</b>	<b>264,479</b>	<b>92.7%</b>
Paper Beverage Cartons/Aseptic Boxes	973	0.3%
Other Paper	4,197	1.5%
Plastic	7,224	2.5%
Targeted Recyclable Plastic Bottles	747	0.3%
Other Rigid Plastics	1,497	0.5%
Film Plastic	4,533	1.6%
Foam Plastics	447	0.2%
Glass	1,134	0.4%
Targeted Recyclable Glass	767	0.3%
Other Glass	368	0.1%
Metal	889	0.3%
Aluminum Cans	138	0.0%
Steel Cans	261	0.1%
Other Nonferrous Metal	127	0.0%
Other Ferrous Metal	363	0.1%
Organics	5,133	1.8%
Food Waste	2,149	0.8%
Other Organics	2,984	1.0%
E-Waste	164	0.1%
Construction & Demolition Debris	700	0.2%
Special Waste	192	0.1%
Misc. Inorganics	307	0.1%
<b>Total</b>	<b>285,391</b>	<b>100.0%</b>
<b>Summary</b>		
<b>Targeted Paper</b>	<b>264,479</b>	<b>92.7%</b>
Contaminants	20,912	7.3%
Targeted MGP	4,872	1.7%
Refuse	16,040	5.6%

***Bold** text indicates targeted Paper materials*

Exhibit 16 Incidence of Recyclables in Refuse Stream

Material	Citywide	
	Tons	Percent
Paper	550,172	21.3%
<b>Newspaper</b>	<b>39,508</b>	<b>1.5%</b>
<b>Plain OCC/Kraft Paper</b>	<b>38,623</b>	<b>1.5%</b>
<b>High Grade Paper</b>	<b>23,792</b>	<b>0.9%</b>
<b>Mixed Low Grade Paper</b>	<b>190,549</b>	<b>7.4%</b>
<b>Paper Beverage Cartons/Aseptic Boxes</b>	<b>7,037</b>	<b>0.3%</b>
Other Paper	250,665	9.7%
Plastic	355,033	13.7%
<b>#1 PET Bottles</b>	<b>23,643</b>	<b>0.9%</b>
<b>#2 HDPE Bottles</b>	<b>11,608</b>	<b>0.4%</b>
<b>Other Plastic Bottles</b>	<b>2,170</b>	<b>0.1%</b>
<b><i>Rigid Plastic Containers/Packaging</i></b>	<b><i>39,232</i></b>	<b><i>1.5%</i></b>
<b><i>Single Use Plastic Plates/Cups/Cutlery (excluding EPS)</i></b>	<b><i>13,754</i></b>	<b><i>0.5%</i></b>
<b><i>Appliances: Plastic</i></b>	<b><i>6,510</i></b>	<b><i>0.3%</i></b>
<b><i>Bulk/Rigid Plastic</i></b>	<b><i>20,009</i></b>	<b><i>0.8%</i></b>
<b><i>Other Plastics</i></b>	<b><i>20,425</i></b>	<b><i>0.8%</i></b>
Film Plastic	193,900	7.5%
Foam Plastic	23,783	0.9%
Glass	51,831	2.0%
<b>Clear Container Glass</b>	<b>23,845</b>	<b>0.9%</b>
<b>Green Container Glass</b>	<b>5,103</b>	<b>0.2%</b>
<b>Brown Container Glass</b>	<b>4,943</b>	<b>0.2%</b>
<b>Other Color Container Glass</b>	<b>327</b>	<b>0.0%</b>
<b>Mixed Cullet</b>	<b>9,721</b>	<b>0.4%</b>
Other Glass	7,892	0.3%
Metal	75,515	2.9%
<b>Aluminum Cans</b>	<b>6,116</b>	<b>0.2%</b>
<b>Aluminum Foil/Containers</b>	<b>12,850</b>	<b>0.5%</b>
<b>Other Aluminum</b>	<b>2,146</b>	<b>0.1%</b>
<b>Other Non-Ferrous</b>	<b>2,554</b>	<b>0.1%</b>
<b>Steel/Tin Food Cans</b>	<b>13,596</b>	<b>0.5%</b>
<b>Empty Aerosol Cans</b>	<b>2,614</b>	<b>0.1%</b>
<b>Other Ferrous</b>	<b>18,386</b>	<b>0.7%</b>
<b>Mixed Metals</b>	<b>11,728</b>	<b>0.5%</b>
<b>Appliances: Ferrous</b>	<b>5,162</b>	<b>0.2%</b>
<b>Appliances: Non-Ferrous</b>	<b>362</b>	<b>0.0%</b>
Other Wastes	1,555,650	60.1%
<b>Total</b>	<b>2,588,201</b>	<b>100.0%</b>
<b>Summary</b>		
Refuse	2,031,890	78.5%
<b>Targeted MGP</b>	<b>263,840</b>	<b>10.2%</b>
<b>Targeted Paper</b>	<b>292,471</b>	<b>11.3%</b>

*Bold text indicates targeted recyclables (both Paper and MGP) based on Program Prior to April 2013*

*Bold italic text indicates targeted recyclables added in April 2013.*



Exhibit 17a Bronx MGP Composition

Material	Estimated			Material	Estimated		
	Percent	+ / -	Tons		Percent	+ / -	Tons
<b>Paper</b>	<b>6.8%</b>	<b>1.2%</b>	<b>1,921</b>	<b>Organics</b>	<b>3.7%</b>	<b>0.8%</b>	<b>1,055</b>
Newspaper	0.4%	0.2%	118	Yard Waste	0.0%	0.0%	2
Plain OCC/Kraft Paper	0.4%	0.2%	106	Food	2.7%	0.6%	761
High Grade Paper	0.2%	0.1%	43	Non-C&D Wood	0.1%	0.1%	21
Mixed Low Grade Paper	2.0%	0.7%	573	Textiles: Non-Clothing	0.1%	0.1%	25
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.4%	0.1%	127	Textiles: Clothing	0.1%	0.1%	18
Other Nonrecyclable Paper	0.7%	0.1%	205	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	2.6%	0.4%	749	Disposable Diapers/Sanitary Products	0.1%	0.1%	36
				Animal By-Products	0.0%	0.0%	1
<b>Plastic</b>	<b>38.3%</b>	<b>2.5%</b>	<b>10,875</b>	Shoes/Rubber/Leather	0.2%	0.1%	54
#1 PET Bottles	11.4%	1.0%	3,233	Fines	0.4%	0.3%	102
#2 HDPE Natural Bottles	5.7%	0.8%	1,625	Miscellaneous Organics	0.1%	0.1%	35
#2 HDPE Pigmented Bottles	3.9%	0.5%	1,113				
Other Plastic Bottles	0.8%	0.2%	219	<b>E-Waste</b>	<b>1.0%</b>	<b>0.5%</b>	<b>285</b>
Rigid Plastic Containers/Packaging	4.0%	0.4%	1,122	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.1%	34
#6 EPS Containers/Packaging (including Single Use)	0.1%	0.0%	30	Audio/Visual Equipment-Other (Non-Covered)	0.6%	0.4%	160
Film Plastic: Retail Bags/Sleeves	0.7%	0.2%	202	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	3.4%	0.4%	961	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	4	Other Computer Equipment	0.3%	0.3%	91
Film Plastic: All Other Film	0.3%	0.1%	86				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.3%	0.1%	92	<b>Construction &amp; Demolition</b>	<b>0.1%</b>	<b>0.1%</b>	<b>34</b>
Appliances: Plastic	0.4%	0.3%	125	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.1%	11
Bulk/Rigid Plastic	5.4%	2.2%	1,530	Treated/Contaminated Wood	0.0%	0.0%	12
Other Plastics	1.9%	0.3%	533	Other C&D Debris Not Elsewhere Classified	0.0%	0.1%	11
<b>Glass</b>	<b>33.6%</b>	<b>2.8%</b>	<b>9,523</b>	<b>Special Waste</b>	<b>0.4%</b>	<b>0.2%</b>	<b>108</b>
Clear Container Glass	14.7%	2.0%	4,164	Oil Filters	0.0%	0.0%	0
Green Container Glass	4.0%	0.8%	1,142	Antifreeze	0.0%	0.0%	0
Brown Container Glass	3.4%	0.7%	953	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.3%	0.2%	77	Water-Based Adhesives/Glues	0.1%	0.1%	18
Mixed Cullet	10.0%	2.8%	2,844	Latex Paint	0.0%	0.1%	14
Other Glass	1.2%	0.4%	344	Oil-Based Paint/Solvent	0.1%	0.2%	36
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>14.7%</b>	<b>1.6%</b>	<b>4,163</b>	Dry-Cell Batteries	0.1%	0.0%	15
Aluminum Cans	0.9%	0.1%	243	Fluorescent Tubes/CFLs	0.0%	0.0%	1
Aluminum Foil/Containers	0.9%	0.2%	257	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	13	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.2%	0.2%	71	Home Medical Products	0.0%	0.0%	5
Steel/Tin Food Cans	7.7%	0.6%	2,192	Other Potentially Harmful Wastes	0.1%	0.1%	20
Empty Aerosol Cans	1.0%	0.2%	275				
Other Ferrous	1.9%	0.5%	543	<b>Miscellaneous Inorganics</b>	<b>1.4%</b>	<b>0.8%</b>	<b>397</b>
Mixed Metals	0.4%	0.4%	116				
Appliances: Ferrous	1.0%	0.8%	289	<b>Totals</b>	<b>100%</b>		<b>28,361</b>
Appliances: Non-Ferrous	0.6%	0.9%	165	<b>Sample Count</b>	<b>36</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 17b Brooklyn MGP Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>7.6%</b>	<b>1.1%</b>	<b>4,593</b>	<b>Organics</b>	<b>3.7%</b>	<b>0.8%</b>	<b>2,223</b>
Newspaper	0.8%	0.5%	476	Yard Waste	0.1%	0.0%	31
Plain OCC/Kraft Paper	0.4%	0.1%	223	Food	2.5%	0.6%	1,511
High Grade Paper	0.0%	0.0%	26	Non-C&D Wood	0.1%	0.1%	61
Mixed Low Grade Paper	2.9%	0.6%	1,771	Textiles: Non-Clothing	0.0%	0.0%	11
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.5%	0.2%	312	Textiles: Clothing	0.1%	0.1%	74
Other Nonrecyclable Paper	0.4%	0.1%	247	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	2.6%	0.5%	1,538	Disposable Diapers/Sanitary Products	0.1%	0.1%	55
				Animal By-Products	0.0%	0.0%	30
<b>Plastic</b>	<b>31.6%</b>	<b>2.2%</b>	<b>18,973</b>	Shoes/Rubber/Leather	0.1%	0.1%	88
#1 PET Bottles	9.1%	0.8%	5,443	Fines	0.5%	0.2%	290
#2 HDPE Natural Bottles	4.3%	0.8%	2,570	Miscellaneous Organics	0.1%	0.1%	74
#2 HDPE Pigmented Bottles	3.6%	0.7%	2,146				
Other Plastic Bottles	0.9%	0.2%	531	<b>E-Waste</b>	<b>0.8%</b>	<b>0.5%</b>	<b>469</b>
Rigid Plastic Containers/Packaging	3.7%	0.3%	2,200	Audio/Visual Equipment-TV Peripherals (Covered)	0.3%	0.5%	188
#6 EPS Containers/Packaging (including Single Use)	0.2%	0.0%	93	Audio/Visual Equipment-Other (Non-Covered)	0.1%	0.1%	78
Film Plastic: Retail Bags/Sleeves	1.2%	0.2%	708	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	3.1%	0.4%	1,875	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	9	Other Computer Equipment	0.3%	0.3%	204
Film Plastic: All Other Film	0.6%	0.1%	370				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.4%	0.1%	219	<b>Construction &amp; Demolition</b>	<b>0.0%</b>	<b>0.0%</b>	<b>20</b>
Appliances: Plastic	0.3%	0.3%	205	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	3
Bulk/Rigid Plastic	2.5%	1.0%	1,473	Treated/Contaminated Wood	0.0%	0.0%	0
Other Plastics	1.9%	0.4%	1,132	Other C&D Debris Not Elsewhere Classified	0.0%	0.0%	17
<b>Glass</b>	<b>40.1%</b>	<b>3.1%</b>	<b>24,059</b>	<b>Special Waste</b>	<b>0.9%</b>	<b>0.5%</b>	<b>532</b>
Clear Container Glass	18.3%	1.7%	10,988	Oil Filters	0.0%	0.0%	0
Green Container Glass	7.2%	1.5%	4,346	Antifreeze	0.0%	0.0%	0
Brown Container Glass	3.7%	0.9%	2,236	Wet-Cell Batteries	0.0%	0.0%	14
Other Color Container Glass	0.3%	0.2%	194	Water-Based Adhesives/Glues	0.1%	0.1%	47
Mixed Cullet	9.2%	2.0%	5,535	Latex Paint	0.5%	0.4%	292
Other Glass	1.3%	0.4%	759	Oil-Based Paint/Solvent	0.1%	0.1%	71
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	14
<b>Metal</b>	<b>14.6%</b>	<b>2.0%</b>	<b>8,793</b>	Dry-Cell Batteries	0.0%	0.0%	18
Aluminum Cans	1.1%	0.3%	673	Fluorescent Tubes/CFLs	0.0%	0.0%	6
Aluminum Foil/Containers	1.1%	0.4%	675	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.8%	1.2%	492	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.4%	0.3%	263	Home Medical Products	0.1%	0.1%	62
Steel/Tin Food Cans	6.0%	0.7%	3,630	Other Potentially Harmful Wastes	0.0%	0.0%	8
Empty Aerosol Cans	0.7%	0.2%	441				
Other Ferrous	1.9%	0.5%	1,119	<b>Miscellaneous Inorganics</b>	<b>0.7%</b>	<b>0.2%</b>	<b>408</b>
Mixed Metals	0.6%	0.2%	333				
Appliances: Ferrous	1.8%	1.5%	1,059	<b>Totals</b>	<b>100%</b>		<b>60,069</b>
Appliances: Non-Ferrous	0.2%	0.1%	108	<b>Sample Count</b>	<b>36</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 17c Manhattan MGP Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>4.3%</b>	<b>0.6%</b>	<b>1,872</b>	<b>Organics</b>	<b>3.0%</b>	<b>0.7%</b>	<b>1,276</b>
Newspaper	0.1%	0.1%	61	Yard Waste	0.0%	0.1%	17
Plain OCC/Kraft Paper	0.1%	0.1%	63	Food	1.7%	0.5%	727
High Grade Paper	0.1%	0.1%	23	Non-C&D Wood	0.2%	0.2%	85
Mixed Low Grade Paper	1.5%	0.4%	645	Textiles: Non-Clothing	0.1%	0.0%	30
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.2%	0.1%	74	Textiles: Clothing	0.1%	0.1%	51
Other Nonrecyclable Paper	0.3%	0.1%	125	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	2.0%	0.3%	881	Disposable Diapers/Sanitary Products	0.0%	0.0%	15
				Animal By-Products	0.0%	0.0%	5
<b>Plastic</b>	<b>25.0%</b>	<b>1.7%</b>	<b>10,793</b>	Shoes/Rubber/Leather	0.1%	0.1%	40
#1 PET Bottles	6.9%	0.8%	2,997	Fines	0.7%	0.4%	281
#2 HDPE Natural Bottles	2.8%	0.6%	1,204	Miscellaneous Organics	0.1%	0.1%	24
#2 HDPE Pigmented Bottles	2.4%	0.5%	1,023				
Other Plastic Bottles	0.5%	0.1%	216	<b>E-Waste</b>	<b>0.6%</b>	<b>0.3%</b>	<b>247</b>
Rigid Plastic Containers/Packaging	3.9%	0.4%	1,673	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.2%	42
#6 EPS Containers/Packaging (including Single Use)	0.1%	0.0%	22	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.2%	83
Film Plastic: Retail Bags/Sleeves	0.5%	0.1%	221	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	4.0%	0.4%	1,712	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	2	Other Computer Equipment	0.3%	0.2%	122
Film Plastic: All Other Film	0.6%	0.2%	251				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.3%	0.1%	113	<b>Construction &amp; Demolition</b>	<b>0.0%</b>	<b>0.0%</b>	<b>4</b>
Appliances: Plastic	0.5%	0.3%	216	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	0
Bulk/Rigid Plastic	1.7%	0.7%	746	Treated/Contaminated Wood	0.0%	0.0%	0
Other Plastics	0.9%	0.2%	398	Other C&D Debris Not Elsewhere Classified	0.0%	0.0%	3
<b>Glass</b>	<b>53.2%</b>	<b>3.1%</b>	<b>22,939</b>	<b>Special Waste</b>	<b>0.2%</b>	<b>0.1%</b>	<b>88</b>
Clear Container Glass	10.8%	1.6%	4,637	Oil Filters	0.0%	0.0%	0
Green Container Glass	12.1%	1.6%	5,205	Antifreeze	0.0%	0.0%	0
Brown Container Glass	2.6%	0.7%	1,102	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.1%	0.1%	57	Water-Based Adhesives/Glues	0.0%	0.0%	0
Mixed Cullet	26.7%	4.0%	11,516	Latex Paint	0.0%	0.0%	9
Other Glass	1.0%	0.4%	421	Oil-Based Paint/Solvent	0.0%	0.0%	19
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>13.0%</b>	<b>2.6%</b>	<b>5,626</b>	Dry-Cell Batteries	0.0%	0.0%	16
Aluminum Cans	1.0%	0.2%	428	Fluorescent Tubes/CFLs	0.0%	0.0%	5
Aluminum Foil/Containers	0.3%	0.1%	135	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.1%	0.1%	28	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.3%	0.2%	150	Home Medical Products	0.1%	0.1%	39
Steel/Tin Food Cans	4.3%	0.7%	1,849	Other Potentially Harmful Wastes	0.0%	0.0%	0
Empty Aerosol Cans	0.6%	0.1%	259				
Other Ferrous	3.0%	0.8%	1,296	<b>Miscellaneous Inorganics</b>	<b>0.6%</b>	<b>0.3%</b>	<b>273</b>
Mixed Metals	0.6%	0.3%	267				
Appliances: Ferrous	2.4%	2.6%	1,045	<b>Totals</b>	<b>100%</b>		<b>43,118</b>
Appliances: Non-Ferrous	0.4%	0.3%	170	<b>Sample Count</b>	<b>37</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 17d Queens MGP Composition**

Material	Estimated		Tons	Material	Estimated		Tons
	Percent	+ / -			Percent	+ / -	
<b>Paper</b>	<b>7.6%</b>	<b>1.2%</b>	<b>4,728</b>	<b>Organics</b>	<b>4.7%</b>	<b>0.9%</b>	<b>2,934</b>
Newspaper	0.7%	0.3%	444	Yard Waste	0.0%	0.0%	15
Plain OCC/Kraft Paper	0.9%	0.5%	566	Food	3.1%	0.7%	1,933
High Grade Paper	0.2%	0.2%	101	Non-C&D Wood	0.2%	0.1%	119
Mixed Low Grade Paper	2.4%	0.6%	1,501	Textiles: Non-Clothing	0.1%	0.0%	56
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.6%	0.2%	374	Textiles: Clothing	0.1%	0.1%	41
Other Nonrecyclable Paper	0.5%	0.1%	303	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	2.3%	0.4%	1,439	Disposable Diapers/Sanitary Products	0.1%	0.1%	77
				Animal By-Products	0.1%	0.1%	49
<b>Plastic</b>	<b>35.8%</b>	<b>1.4%</b>	<b>22,320</b>	Shoes/Rubber/Leather	0.2%	0.1%	111
#1 PET Bottles	10.3%	0.7%	6,437	Fines	0.8%	0.4%	505
#2 HDPE Natural Bottles	5.5%	0.7%	3,451	Miscellaneous Organics	0.0%	0.0%	29
#2 HDPE Pigmented Bottles	4.3%	0.5%	2,650				
Other Plastic Bottles	1.0%	0.2%	623	<b>E-Waste</b>	<b>0.8%</b>	<b>0.5%</b>	<b>470</b>
Rigid Plastic Containers/Packaging	4.3%	0.4%	2,704	Audio/Visual Equipment-TV Peripherals (Covered)	0.2%	0.3%	138
#6 EPS Containers/Packaging (including Single Use)	0.2%	0.1%	105	Audio/Visual Equipment-Other (Non-Covered)	0.1%	0.2%	72
Film Plastic: Retail Bags/Sleeves	0.9%	0.1%	543	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	3.0%	0.4%	1,894	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	9	Other Computer Equipment	0.4%	0.4%	260
Film Plastic: All Other Film	0.7%	0.3%	448				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.3%	0.1%	211	<b>Construction &amp; Demolition</b>	<b>1.0%</b>	<b>1.2%</b>	<b>595</b>
Appliances: Plastic	0.3%	0.3%	202	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	17
Bulk/Rigid Plastic	3.5%	1.2%	2,178	Treated/Contaminated Wood	0.0%	0.0%	0
Other Plastics	1.4%	0.4%	862	Other C&D Debris Not Elsewhere Classified	0.9%	1.2%	577
<b>Glass</b>	<b>30.0%</b>	<b>2.8%</b>	<b>18,714</b>	<b>Special Waste</b>	<b>0.8%</b>	<b>0.6%</b>	<b>473</b>
Clear Container Glass	14.2%	1.4%	8,833	Oil Filters	0.0%	0.0%	0
Green Container Glass	5.4%	1.1%	3,346	Antifreeze	0.0%	0.0%	0
Brown Container Glass	2.3%	0.7%	1,426	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.4%	0.2%	251	Water-Based Adhesives/Glues	0.0%	0.0%	26
Mixed Cullet	6.8%	2.3%	4,207	Latex Paint	0.4%	0.5%	274
Other Glass	1.0%	0.3%	650	Oil-Based Paint/Solvent	0.1%	0.1%	88
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>18.4%</b>	<b>2.3%</b>	<b>11,447</b>	Dry-Cell Batteries	0.0%	0.0%	14
Aluminum Cans	1.3%	0.3%	818	Fluorescent Tubes/CFLs	0.0%	0.0%	16
Aluminum Foil/Containers	0.9%	0.3%	577	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.1%	0.0%	36	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.6%	0.4%	382	Home Medical Products	0.0%	0.0%	15
Steel/Tin Food Cans	6.9%	1.0%	4,320	Other Potentially Harmful Wastes	0.1%	0.1%	40
Empty Aerosol Cans	0.9%	0.2%	545				
Other Ferrous	4.5%	1.8%	2,834	<b>Miscellaneous Inorganics</b>	<b>1.0%</b>	<b>0.6%</b>	<b>651</b>
Mixed Metals	1.6%	1.3%	1,022				
Appliances: Ferrous	1.4%	1.5%	867	<b>Totals</b>	<b>100%</b>		<b>62,331</b>
Appliances: Non-Ferrous	0.1%	0.1%	46	<b>Sample Count</b>	<b>38</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 17e Staten Island MGP Composition**

Material	Estimated		Estimated Tons	Material	Estimated		Estimated Tons
	Percent	+ / -			Percent	+ / -	
<b>Paper</b>	<b>8.2%</b>	<b>1.2%</b>	<b>1,503</b>	<b>Organics</b>	<b>4.7%</b>	<b>1.0%</b>	<b>873</b>
Newspaper	1.8%	0.7%	322	Yard Waste	0.5%	0.7%	99
Plain OCC/Kraft Paper	0.8%	0.3%	150	Food	2.8%	0.6%	506
High Grade Paper	0.1%	0.1%	26	Non-C&D Wood	0.0%	0.0%	8
Mixed Low Grade Paper	3.1%	0.6%	577	Textiles: Non-Clothing	0.1%	0.1%	19
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.5%	0.2%	99	Textiles: Clothing	0.2%	0.2%	30
Other Nonrecyclable Paper	0.4%	0.1%	82	Carpet/Upholstery	0.0%	0.0%	1
Paper Beverage Cartons/Aseptic Boxes	1.3%	0.3%	245	Disposable Diapers/Sanitary Products	0.1%	0.1%	18
				Animal By-Products	0.0%	0.0%	1
<b>Plastic</b>	<b>34.6%</b>	<b>2.4%</b>	<b>6,362</b>	Shoes/Rubber/Leather	0.2%	0.1%	29
#1 PET Bottles	11.2%	1.1%	2,060	Fines	0.7%	0.2%	132
#2 HDPE Natural Bottles	3.6%	0.7%	665	Miscellaneous Organics	0.2%	0.1%	29
#2 HDPE Pigmented Bottles	4.4%	0.8%	807				
Other Plastic Bottles	0.8%	0.2%	156	<b>E-Waste</b>	<b>0.6%</b>	<b>0.5%</b>	<b>106</b>
Rigid Plastic Containers/Packaging	4.0%	0.4%	728	Audio/Visual Equipment-TV Peripherals (Covered)	0.0%	0.0%	0
#6 EPS Containers/Packaging (including Single Use)	0.2%	0.1%	33	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.3%	46
Film Plastic: Retail Bags/Sleeves	1.0%	0.1%	188	Computer Monitors	0.1%	0.1%	12
Film Plastic: Garbage Bags	2.0%	0.2%	362	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	2	Other Computer Equipment	0.3%	0.4%	48
Film Plastic: All Other Film	0.7%	0.1%	124				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.5%	0.1%	95	<b>Construction &amp; Demolition</b>	<b>0.1%</b>	<b>0.1%</b>	<b>22</b>
Appliances: Plastic	0.1%	0.1%	26	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	0
Bulk/Rigid Plastic	4.4%	1.5%	815	Treated/Contaminated Wood	0.0%	0.0%	1
Other Plastics	1.6%	0.4%	301	Other C&D Debris Not Elsewhere Classified	0.1%	0.1%	21
<b>Glass</b>	<b>34.3%</b>	<b>2.6%</b>	<b>6,298</b>	<b>Special Waste</b>	<b>0.7%</b>	<b>0.3%</b>	<b>126</b>
Clear Container Glass	15.9%	1.6%	2,928	Oil Filters	0.0%	0.0%	0
Green Container Glass	6.7%	0.9%	1,224	Antifreeze	0.0%	0.0%	0
Brown Container Glass	3.3%	0.6%	611	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.3%	0.1%	62	Water-Based Adhesives/Glues	0.2%	0.2%	32
Mixed Cullet	5.9%	2.6%	1,084	Latex Paint	0.2%	0.2%	44
Other Glass	2.1%	0.8%	390	Oil-Based Paint/Solvent	0.1%	0.1%	14
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>15.5%</b>	<b>1.4%</b>	<b>2,856</b>	Dry-Cell Batteries	0.1%	0.0%	12
Aluminum Cans	1.8%	0.2%	330	Fluorescent Tubes/CFLs	0.0%	0.0%	1
Aluminum Foil/Containers	0.8%	0.1%	149	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.1%	0.1%	25	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.4%	0.2%	66	Home Medical Products	0.0%	0.0%	4
Steel/Tin Food Cans	6.3%	0.5%	1,151	Other Potentially Harmful Wastes	0.1%	0.1%	18
Empty Aerosol Cans	0.9%	0.2%	174				
Other Ferrous	2.9%	1.0%	526	<b>Miscellaneous Inorganics</b>	<b>1.3%</b>	<b>0.6%</b>	<b>233</b>
Mixed Metals	0.5%	0.3%	84				
Appliances: Ferrous	0.7%	0.6%	135	<b>Totals</b>	<b>100%</b>		<b>18,379</b>
Appliances: Non-Ferrous	1.2%	1.2%	216	<b>Sample Count</b>	<b>36</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 18a Bronx Paper Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>93.5%</b>	<b>2.2%</b>	<b>26,873</b>	<b>Organics</b>	<b>1.6%</b>	<b>0.8%</b>	<b>458</b>
Newspaper	16.2%	3.8%	4,660	Yard Waste	0.0%	0.0%	1
Plain OCC/Kraft Paper	41.4%	6.4%	11,890	Food	0.5%	0.3%	144
High Grade Paper	7.2%	3.3%	2,058	Non-C&D Wood	0.1%	0.1%	37
Mixed Low Grade Paper	26.3%	3.6%	7,553	Textiles: Non-Clothing	0.1%	0.1%	19
Paper: Compostable/Soiled/Waxed OCC/Kraft	1.2%	0.5%	351	Textiles: Clothing	0.0%	0.0%	5
Other Nonrecyclable Paper	1.0%	0.4%	279	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.1%	82	Disposable Diapers/Sanitary Products	0.2%	0.3%	61
				Animal By-Products	0.0%	0.0%	0
<b>Plastic</b>	<b>2.8%</b>	<b>0.6%</b>	<b>811</b>	Shoes/Rubber/Leather	0.1%	0.1%	34
#1 PET Bottles	0.2%	0.1%	46	Fines	0.5%	0.4%	141
#2 HDPE Natural Bottles	0.0%	0.0%	12	Miscellaneous Organics	0.1%	0.0%	18
#2 HDPE Pigmented Bottles	0.0%	0.0%	1				
Other Plastic Bottles	0.0%	0.0%	3	<b>E-Waste</b>	<b>0.0%</b>	<b>0.1%</b>	<b>12</b>
Rigid Plastic Containers/Packaging	0.2%	0.1%	56	Audio/Visual Equipment-TV Peripherals (Covered)	0.0%	0.0%	3
#6 EPS Containers/Packaging (including Single Use)	0.2%	0.1%	46	Audio/Visual Equipment-Other (Non-Covered)	0.0%	0.0%	8
Film Plastic: Retail Bags/Sleeves	0.2%	0.0%	47	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	1.3%	0.2%	374	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	2	Other Computer Equipment	0.0%	0.0%	0
Film Plastic: All Other Film	0.4%	0.2%	112				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.1%	0.0%	16	<b>Construction &amp; Demolition</b>	<b>0.8%</b>	<b>0.8%</b>	<b>231</b>
Appliances: Plastic	0.0%	0.0%	0	Untreated Dimensional Lumber/Pallets/Crates	0.1%	0.1%	17
Bulk/Rigid Plastic	0.2%	0.2%	60	Treated/Contaminated Wood	0.0%	0.0%	0
Other Plastics	0.1%	0.1%	36	Other C&D Debris Not Elsewhere Classified	0.7%	0.8%	214
<b>Glass</b>	<b>0.7%</b>	<b>0.7%</b>	<b>190</b>	<b>Special Waste</b>	<b>0.1%</b>	<b>0.1%</b>	<b>31</b>
Clear Container Glass	0.3%	0.4%	97	Oil Filters	0.0%	0.0%	1
Green Container Glass	0.0%	0.0%	4	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.0%	0.0%	0	Wet-Cell Batteries	0.0%	0.0%	3
Other Color Container Glass	0.0%	0.0%	0	Water-Based Adhesives/Glues	0.0%	0.0%	0
Mixed Cullet	0.2%	0.2%	48	Latex Paint	0.0%	0.0%	0
Other Glass	0.1%	0.1%	40	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>0.4%</b>	<b>0.3%</b>	<b>115</b>	Dry-Cell Batteries	0.1%	0.1%	19
Aluminum Cans	0.0%	0.0%	10	Fluorescent Tubes/CFLs	0.0%	0.0%	0
Aluminum Foil/Containers	0.0%	0.0%	3	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	2	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	10	Home Medical Products	0.0%	0.0%	8
Steel/Tin Food Cans	0.1%	0.1%	29	Other Potentially Harmful Wastes	0.0%	0.0%	1
Empty Aerosol Cans	0.0%	0.1%	14				
Other Ferrous	0.0%	0.0%	6	<b>Miscellaneous Inorganics</b>	<b>0.0%</b>	<b>0.0%</b>	<b>7</b>
Mixed Metals	0.0%	0.0%	3				
Appliances: Ferrous	0.0%	0.0%	0	<b>Totals</b>	<b>100%</b>		<b>28,728</b>
Appliances: Non-Ferrous	0.1%	0.2%	37	<b>Sample Count</b>	<b>22</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 18b Brooklyn Paper Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>95.0%</b>	<b>0.9%</b>	<b>80,432</b>	<b>Organics</b>	<b>1.5%</b>	<b>0.4%</b>	<b>1,292</b>
Newspaper	23.9%	4.8%	20,237	Yard Waste	0.0%	0.0%	7
Plain OCC/Kraft Paper	30.3%	5.4%	25,645	Food	0.9%	0.4%	723
High Grade Paper	6.4%	4.1%	5,387	Non-C&D Wood	0.1%	0.1%	82
Mixed Low Grade Paper	32.8%	3.2%	27,782	Textiles: Non-Clothing	0.1%	0.2%	91
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.4%	0.4%	356	Textiles: Clothing	0.2%	0.2%	160
Other Nonrecyclable Paper	1.0%	0.5%	807	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.1%	216	Disposable Diapers/Sanitary Products	0.0%	0.0%	10
				Animal By-Products	0.0%	0.0%	9
<b>Plastic</b>	<b>2.4%</b>	<b>0.5%</b>	<b>2,009</b>	Shoes/Rubber/Leather	0.0%	0.0%	35
#1 PET Bottles	0.2%	0.1%	130	Fines	0.2%	0.0%	161
#2 HDPE Natural Bottles	0.0%	0.0%	40	Miscellaneous Organics	0.0%	0.0%	14
#2 HDPE Pigmented Bottles	0.0%	0.0%	27				
Other Plastic Bottles	0.0%	0.0%	6	<b>E-Waste</b>	<b>0.1%</b>	<b>0.2%</b>	<b>121</b>
Rigid Plastic Containers/Packaging	0.2%	0.1%	131	Audio/Visual Equipment-TV Peripherals (Covered)	0.0%	0.0%	10
#6 EPS Containers/Packaging (including Single Use)	0.2%	0.1%	130	Audio/Visual Equipment-Other (Non-Covered)	0.1%	0.2%	111
Film Plastic: Retail Bags/Sleeves	0.2%	0.1%	211	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	1.0%	0.3%	873	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	1	Other Computer Equipment	0.0%	0.0%	0
Film Plastic: All Other Film	0.3%	0.1%	250				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.0%	0.0%	35	<b>Construction &amp; Demolition</b>	<b>0.3%</b>	<b>0.3%</b>	<b>221</b>
Appliances: Plastic	0.0%	0.0%	0	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	0
Bulk/Rigid Plastic	0.1%	0.1%	42	Treated/Contaminated Wood	0.1%	0.2%	115
Other Plastics	0.2%	0.1%	131	Other C&D Debris Not Elsewhere Classified	0.1%	0.2%	106
<b>Glass</b>	<b>0.3%</b>	<b>0.2%</b>	<b>267</b>	<b>Special Waste</b>	<b>0.0%</b>	<b>0.1%</b>	<b>40</b>
Clear Container Glass	0.1%	0.1%	77	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.0%	0.1%	26	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.0%	0.0%	0	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	0	Water-Based Adhesives/Glues	0.0%	0.0%	0
Mixed Cullet	0.1%	0.1%	62	Latex Paint	0.0%	0.0%	0
Other Glass	0.1%	0.1%	101	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>0.4%</b>	<b>0.1%</b>	<b>302</b>	Dry-Cell Batteries	0.0%	0.0%	0
Aluminum Cans	0.0%	0.0%	27	Fluorescent Tubes/CFLs	0.0%	0.0%	0
Aluminum Foil/Containers	0.0%	0.0%	17	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	5	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	10	Home Medical Products	0.0%	0.1%	37
Steel/Tin Food Cans	0.1%	0.1%	77	Other Potentially Harmful Wastes	0.0%	0.0%	2
Empty Aerosol Cans	0.0%	0.0%	5				
Other Ferrous	0.1%	0.1%	90	<b>Miscellaneous Inorganics</b>	<b>0.0%</b>	<b>0.0%</b>	<b>19</b>
Mixed Metals	0.1%	0.1%	44				
Appliances: Ferrous	0.0%	0.1%	26	<b>Totals</b>	<b>100%</b>		<b>84,705</b>
Appliances: Non-Ferrous	0.0%	0.0%	0	<b>Sample Count</b>	<b>28</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 18c Manhattan Paper Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>95.6%</b>	<b>0.8%</b>	<b>65,311</b>	<b>Organics</b>	<b>1.2%</b>	<b>0.4%</b>	<b>814</b>
Newspaper	17.6%	3.1%	12,043	Yard Waste	0.0%	0.0%	1
Plain OCC/Kraft Paper	29.7%	5.1%	20,313	Food	0.5%	0.2%	363
High Grade Paper	8.5%	3.3%	5,817	Non-C&D Wood	0.1%	0.1%	61
Mixed Low Grade Paper	38.5%	4.1%	26,302	Textiles: Non-Clothing	0.2%	0.2%	160
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.2%	0.1%	154	Textiles: Clothing	0.0%	0.0%	32
Other Nonrecyclable Paper	0.8%	0.2%	557	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	0.2%	0.1%	124	Disposable Diapers/Sanitary Products	0.0%	0.0%	5
				Animal By-Products	0.0%	0.1%	33
<b>Plastic</b>	<b>2.5%</b>	<b>0.5%</b>	<b>1,714</b>	Shoes/Rubber/Leather	0.1%	0.1%	73
#1 PET Bottles	0.1%	0.1%	69	Fines	0.1%	0.0%	79
#2 HDPE Natural Bottles	0.0%	0.0%	10	Miscellaneous Organics	0.0%	0.0%	8
#2 HDPE Pigmented Bottles	0.0%	0.1%	23				
Other Plastic Bottles	0.0%	0.0%	3	<b>E-Waste</b>	<b>0.0%</b>	<b>0.0%</b>	<b>18</b>
Rigid Plastic Containers/Packaging	0.2%	0.1%	114	Audio/Visual Equipment-TV Peripherals (Covered)	0.0%	0.0%	0
#6 EPS Containers/Packaging (including Single Use)	0.1%	0.1%	74	Audio/Visual Equipment-Other (Non-Covered)	0.0%	0.0%	8
Film Plastic: Retail Bags/Sleeves	0.1%	0.0%	82	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	1.2%	0.2%	848	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0	Other Computer Equipment	0.0%	0.0%	11
Film Plastic: All Other Film	0.3%	0.1%	213				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.0%	0.0%	23	<b>Construction &amp; Demolition</b>	<b>0.1%</b>	<b>0.1%</b>	<b>35</b>
Appliances: Plastic	0.0%	0.0%	0	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	0
Bulk/Rigid Plastic	0.1%	0.1%	44	Treated/Contaminated Wood	0.0%	0.0%	0
Other Plastics	0.3%	0.3%	212	Other C&D Debris Not Elsewhere Classified	0.1%	0.1%	35
<b>Glass</b>	<b>0.3%</b>	<b>0.2%</b>	<b>202</b>	<b>Special Waste</b>	<b>0.0%</b>	<b>0.0%</b>	<b>30</b>
Clear Container Glass	0.1%	0.1%	68	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.1%	0.1%	47	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.0%	0.0%	10	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	0	Water-Based Adhesives/Glues	0.0%	0.0%	9
Mixed Cullet	0.0%	0.0%	25	Latex Paint	0.0%	0.0%	0
Other Glass	0.1%	0.1%	53	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>0.2%</b>	<b>0.1%</b>	<b>103</b>	Dry-Cell Batteries	0.0%	0.0%	0
Aluminum Cans	0.0%	0.0%	8	Fluorescent Tubes/CFLs	0.0%	0.0%	0
Aluminum Foil/Containers	0.0%	0.0%	3	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	0	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	7	Home Medical Products	0.0%	0.0%	22
Steel/Tin Food Cans	0.1%	0.0%	39	Other Potentially Harmful Wastes	0.0%	0.0%	0
Empty Aerosol Cans	0.0%	0.0%	3				
Other Ferrous	0.0%	0.0%	26	<b>Miscellaneous Inorganics</b>	<b>0.1%</b>	<b>0.1%</b>	<b>60</b>
Mixed Metals	0.0%	0.0%	17				
Appliances: Ferrous	0.0%	0.0%	0	<b>Totals</b>	<b>100%</b>		<b>68,288</b>
Appliances: Non-Ferrous	0.0%	0.0%	0	<b>Sample Count</b>	<b>26</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.



**Exhibit 18d Queens Paper Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>92.9%</b>	<b>1.5%</b>	<b>73,550</b>	<b>Organics</b>	<b>2.8%</b>	<b>1.1%</b>	<b>2,207</b>
Newspaper	20.3%	3.4%	16,041	Yard Waste	0.2%	0.2%	123
Plain OCC/Kraft Paper	39.2%	4.9%	31,049	Food	0.8%	0.3%	660
High Grade Paper	3.6%	1.2%	2,865	Non-C&D Wood	0.1%	0.1%	57
Mixed Low Grade Paper	27.5%	2.7%	21,781	Textiles: Non-Clothing	0.1%	0.1%	95
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.8%	0.4%	633	Textiles: Clothing	0.1%	0.1%	110
Other Nonrecyclable Paper	0.9%	0.3%	694	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	0.6%	0.3%	486	Disposable Diapers/Sanitary Products	0.1%	0.1%	77
				Animal By-Products	0.1%	0.2%	86
<b>Plastic</b>	<b>2.8%</b>	<b>0.4%</b>	<b>2,250</b>	Shoes/Rubber/Leather	0.9%	0.9%	680
#1 PET Bottles	0.2%	0.1%	175	Fines	0.2%	0.1%	155
#2 HDPE Natural Bottles	0.1%	0.1%	79	Miscellaneous Organics	0.2%	0.2%	164
#2 HDPE Pigmented Bottles	0.0%	0.0%	32				
Other Plastic Bottles	0.0%	0.0%	30	<b>E-Waste</b>	<b>0.0%</b>	<b>0.0%</b>	<b>11</b>
Rigid Plastic Containers/Packaging	0.3%	0.1%	223	Audio/Visual Equipment-TV Peripherals (Covered)	0.0%	0.0%	0
#6 EPS Containers/Packaging (including Single Use)	0.2%	0.1%	157	Audio/Visual Equipment-Other (Non-Covered)	0.0%	0.0%	1
Film Plastic: Retail Bags/Sleeves	0.3%	0.0%	200	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	1.0%	0.2%	799	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0	Other Computer Equipment	0.0%	0.0%	10
Film Plastic: All Other Film	0.4%	0.1%	295				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.0%	0.0%	30	<b>Construction &amp; Demolition</b>	<b>0.2%</b>	<b>0.3%</b>	<b>195</b>
Appliances: Plastic	0.1%	0.1%	54	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	0
Bulk/Rigid Plastic	0.1%	0.1%	75	Treated/Contaminated Wood	0.0%	0.0%	21
Other Plastics	0.1%	0.1%	100	Other C&D Debris Not Elsewhere Classified	0.2%	0.3%	174
<b>Glass</b>	<b>0.5%</b>	<b>0.3%</b>	<b>422</b>	<b>Special Waste</b>	<b>0.1%</b>	<b>0.0%</b>	<b>63</b>
Clear Container Glass	0.2%	0.1%	141	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.0%	0.0%	0	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.1%	0.1%	72	Wet-Cell Batteries	0.0%	0.0%	3
Other Color Container Glass	0.0%	0.0%	0	Water-Based Adhesives/Glues	0.0%	0.0%	1
Mixed Cullet	0.1%	0.1%	45	Latex Paint	0.0%	0.0%	0
Other Glass	0.2%	0.2%	164	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>0.4%</b>	<b>0.3%</b>	<b>315</b>	Dry-Cell Batteries	0.0%	0.0%	23
Aluminum Cans	0.1%	0.2%	90	Fluorescent Tubes/CFLs	0.0%	0.0%	0
Aluminum Foil/Containers	0.0%	0.0%	29	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	0	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	10	Home Medical Products	0.0%	0.0%	29
Steel/Tin Food Cans	0.1%	0.1%	108	Other Potentially Harmful Wastes	0.0%	0.0%	7
Empty Aerosol Cans	0.0%	0.0%	12				
Other Ferrous	0.1%	0.1%	61	<b>Miscellaneous Inorganics</b>	<b>0.2%</b>	<b>0.3%</b>	<b>168</b>
Mixed Metals	0.0%	0.0%	4				
Appliances: Ferrous	0.0%	0.0%	0	<b>Totals</b>	<b>100%</b>		<b>79,181</b>
Appliances: Non-Ferrous	0.0%	0.0%	0	<b>Sample Count</b>	<b>32</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 18e Staten Island Paper Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>95.9%</b>	<b>1.3%</b>	<b>23,483</b>	<b>Organics</b>	<b>1.5%</b>	<b>1.1%</b>	<b>362</b>
Newspaper	29.1%	3.5%	7,124	Yard Waste	0.0%	0.0%	3
Plain OCC/Kraft Paper	30.3%	4.0%	7,410	Food	1.1%	1.0%	260
High Grade Paper	3.4%	1.1%	838	Non-C&D Wood	0.0%	0.0%	8
Mixed Low Grade Paper	31.4%	3.3%	7,680	Textiles: Non-Clothing	0.0%	0.0%	6
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.9%	0.7%	232	Textiles: Clothing	0.0%	0.0%	3
Other Nonrecyclable Paper	0.5%	0.2%	134	Carpet/Upholstery	0.0%	0.0%	0
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.1%	64	Disposable Diapers/Sanitary Products	0.1%	0.1%	22
				Animal By-Products	0.0%	0.0%	4
<b>Plastic</b>	<b>1.8%</b>	<b>0.3%</b>	<b>439</b>	Shoes/Rubber/Leather	0.0%	0.0%	3
#1 PET Bottles	0.2%	0.1%	40	Fines	0.2%	0.0%	42
#2 HDPE Natural Bottles	0.0%	0.0%	8	Miscellaneous Organics	0.0%	0.1%	12
#2 HDPE Pigmented Bottles	0.0%	0.1%	10				
Other Plastic Bottles	0.0%	0.0%	2	<b>E-Waste</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1</b>
Rigid Plastic Containers/Packaging	0.2%	0.1%	56	Audio/Visual Equipment-TV Peripherals (Covered)	0.0%	0.0%	0
#6 EPS Containers/Packaging (including Single Use)	0.2%	0.1%	40	Audio/Visual Equipment-Other (Non-Covered)	0.0%	0.0%	1
Film Plastic: Retail Bags/Sleeves	0.2%	0.1%	51	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	0.5%	0.1%	119	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0	Other Computer Equipment	0.0%	0.0%	0
Film Plastic: All Other Film	0.2%	0.1%	55				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.0%	0.0%	11	<b>Construction &amp; Demolition</b>	<b>0.1%</b>	<b>0.1%</b>	<b>18</b>
Appliances: Plastic	0.0%	0.0%	0	Untreated Dimensional Lumber/Pallets/Crates	0.0%	0.0%	0
Bulk/Rigid Plastic	0.1%	0.1%	19	Treated/Contaminated Wood	0.0%	0.1%	11
Other Plastics	0.1%	0.1%	28	Other C&D Debris Not Elsewhere Classified	0.0%	0.0%	7
<b>Glass</b>	<b>0.2%</b>	<b>0.1%</b>	<b>52</b>	<b>Special Waste</b>	<b>0.1%</b>	<b>0.1%</b>	<b>27</b>
Clear Container Glass	0.1%	0.1%	20	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.0%	0.0%	0	Antifreeze	0.0%	0.0%	4
Brown Container Glass	0.1%	0.1%	16	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	0	Water-Based Adhesives/Glues	0.1%	0.1%	18
Mixed Cullet	0.0%	0.0%	8	Latex Paint	0.0%	0.0%	0
Other Glass	0.0%	0.1%	9	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	0
<b>Metal</b>	<b>0.2%</b>	<b>0.1%</b>	<b>53</b>	Dry-Cell Batteries	0.0%	0.0%	3
Aluminum Cans	0.0%	0.0%	3	Fluorescent Tubes/CFLs	0.0%	0.0%	0
Aluminum Foil/Containers	0.1%	0.1%	22	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	4	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.0%	0.0%	6	Home Medical Products	0.0%	0.0%	3
Steel/Tin Food Cans	0.0%	0.0%	7	Other Potentially Harmful Wastes	0.0%	0.0%	0
Empty Aerosol Cans	0.0%	0.0%	8				
Other Ferrous	0.0%	0.0%	2	<b>Miscellaneous Inorganics</b>	<b>0.2%</b>	<b>0.2%</b>	<b>53</b>
Mixed Metals	0.0%	0.0%	2				
Appliances: Ferrous	0.0%	0.0%	0	<b>Totals</b>	<b>100%</b>		<b>24,489</b>
Appliances: Non-Ferrous	0.0%	0.0%	0	<b>Sample Count</b>	<b>22</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 19a Bronx Refuse Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>19.3%</b>	<b>1.7%</b>	<b>82,806</b>	<b>Organics</b>	<b>52.2%</b>	<b>2.5%</b>	<b>223,919</b>
Newspaper	1.4%	0.3%	6,217	Yard Waste	3.9%	1.8%	16,846
Plain OCC/Kraft Paper	1.4%	0.3%	6,188	Food	21.3%	1.9%	91,537
High Grade Paper	0.7%	0.4%	3,213	Non-C&D Wood	5.2%	2.5%	22,400
Mixed Low Grade Paper	7.1%	0.8%	30,423	Textiles: Non-Clothing	2.9%	0.7%	12,334
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.3%	0.8%	31,155	Textiles: Clothing	4.2%	0.9%	17,961
Other Nonrecyclable Paper	0.9%	0.2%	3,802	Carpet/Upholstery	1.5%	1.0%	6,454
Paper Beverage Cartons/Aseptic Boxes	0.4%	0.1%	1,806	Disposable Diapers/Sanitary Products	4.6%	0.6%	19,574
				Animal By-Products	2.5%	1.0%	10,760
<b>Plastic</b>	<b>15.1%</b>	<b>0.9%</b>	<b>64,673</b>	Shoes/Rubber/Leather	1.4%	0.4%	5,819
#1 PET Bottles	1.2%	0.2%	5,249	Fines	3.8%	0.4%	16,479
#2 HDPE Natural Bottles	0.3%	0.1%	1,280	Miscellaneous Organics	0.9%	0.3%	3,755
#2 HDPE Pigmented Bottles	0.3%	0.1%	1,225				
Other Plastic Bottles	0.1%	0.0%	375	<b>E-Waste</b>	<b>0.7%</b>	<b>0.3%</b>	<b>2,944</b>
Rigid Plastic Containers/Packaging	1.3%	0.2%	5,462	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.1%	293
#6 EPS Containers/Packaging (including Single Use)	1.0%	0.2%	4,274	Audio/Visual Equipment-Other (Non-Covered)	0.4%	0.3%	1,781
Film Plastic: Retail Bags/Sleeves	2.8%	0.3%	11,872	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	3.2%	0.2%	13,626	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.1%	0.0%	233	Other Computer Equipment	0.2%	0.1%	870
Film Plastic: All Other Film	2.1%	0.2%	9,225				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.4%	0.1%	1,554	<b>Construction &amp; Demolition</b>	<b>5.9%</b>	<b>1.5%</b>	<b>25,119</b>
Appliances: Plastic	0.5%	0.4%	1,973	Untreated Dimensional Lumber/Pallets/Crates	0.3%	0.2%	1,216
Bulk/Rigid Plastic	1.2%	0.5%	5,137	Treated/Contaminated Wood	1.1%	0.6%	4,660
Other Plastics	0.7%	0.2%	3,187	Other C&D Debris Not Elsewhere Classified	4.5%	1.4%	19,243
<b>Glass</b>	<b>2.5%</b>	<b>0.5%</b>	<b>10,641</b>	<b>Special Waste</b>	<b>0.3%</b>	<b>0.1%</b>	<b>1,212</b>
Clear Container Glass	1.2%	0.3%	5,288	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.1%	0.1%	465	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.4%	0.2%	1,541	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	110	Water-Based Adhesives/Glues	0.0%	0.0%	16
Mixed Cullet	0.5%	0.2%	2,238	Latex Paint	0.0%	0.0%	0
Other Glass	0.2%	0.1%	1,000	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	57
<b>Metal</b>	<b>3.4%</b>	<b>1.1%</b>	<b>14,775</b>	Dry-Cell Batteries	0.1%	0.0%	424
Aluminum Cans	0.3%	0.1%	1,481	Fluorescent Tubes/CFLs	0.0%	0.0%	2
Aluminum Foil/Containers	0.5%	0.1%	2,017	Mercury-Laden Wastes	0.0%	0.0%	9
Other Aluminum	0.2%	0.1%	1,012	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	41
Other Non-Ferrous	0.1%	0.0%	227	Home Medical Products	0.2%	0.1%	657
Steel/Tin Food Cans	0.9%	0.1%	3,738	Other Potentially Harmful Wastes	0.0%	0.0%	5
Empty Aerosol Cans	0.1%	0.0%	366				
Other Ferrous	0.4%	0.1%	1,624	<b>Miscellaneous Inorganics</b>	<b>0.7%</b>	<b>0.5%</b>	<b>3,093</b>
Mixed Metals	0.2%	0.1%	806				
Appliances: Ferrous	0.8%	1.0%	3,505	<b>Totals</b>	<b>100%</b>		<b>429,181</b>
Appliances: Non-Ferrous	0.0%	0.0%	0	<b>Sample Count</b>	<b>44</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 19b Brooklyn Refuse Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>20.2%</b>	<b>1.0%</b>	<b>164,823</b>	<b>Organics</b>	<b>52.0%</b>	<b>2.1%</b>	<b>424,230</b>
Newspaper	1.4%	0.3%	11,509	Yard Waste	5.7%	1.3%	46,597
Plain OCC/Kraft Paper	1.4%	0.3%	11,086	Food	21.7%	1.5%	176,863
High Grade Paper	1.0%	0.3%	8,256	Non-C&D Wood	3.9%	1.6%	32,049
Mixed Low Grade Paper	6.8%	0.7%	55,592	Textiles: Non-Clothing	3.3%	1.0%	27,045
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.5%	0.6%	69,262	Textiles: Clothing	3.5%	0.7%	28,900
Other Nonrecyclable Paper	0.8%	0.1%	6,906	Carpet/Upholstery	1.6%	0.8%	13,275
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.1%	2,212	Disposable Diapers/Sanitary Products	4.7%	0.7%	38,403
				Animal By-Products	2.3%	0.7%	18,881
<b>Plastic</b>	<b>13.8%</b>	<b>0.9%</b>	<b>112,365</b>	Shoes/Rubber/Leather	1.1%	0.3%	8,689
#1 PET Bottles	0.8%	0.1%	6,907	Fines	3.4%	0.3%	27,912
#2 HDPE Natural Bottles	0.3%	0.1%	2,231	Miscellaneous Organics	0.7%	0.2%	5,615
#2 HDPE Pigmented Bottles	0.2%	0.1%	1,450				
Other Plastic Bottles	0.1%	0.0%	626	<b>E-Waste</b>	<b>1.3%</b>	<b>0.9%</b>	<b>10,767</b>
Rigid Plastic Containers/Packaging	1.3%	0.1%	10,537	Audio/Visual Equipment-TV Peripherals (Covered)	0.2%	0.1%	1,472
#6 EPS Containers/Packaging (including Single Use)	1.0%	0.2%	7,848	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	1,355
Film Plastic: Retail Bags/Sleeves	2.9%	0.3%	23,769	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	2.4%	0.3%	19,697	Televisions	0.5%	0.8%	4,464
Film Plastic: Food/Drink Pouches	0.0%	0.0%	361	Other Computer Equipment	0.4%	0.3%	3,476
Film Plastic: All Other Film	2.2%	0.2%	18,301				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.7%	0.2%	5,774	<b>Construction &amp; Demolition</b>	<b>6.8%</b>	<b>1.8%</b>	<b>55,905</b>
Appliances: Plastic	0.3%	0.2%	2,628	Untreated Dimensional Lumber/Pallets/Crates	1.2%	0.6%	9,706
Bulk/Rigid Plastic	0.6%	0.2%	4,778	Treated/Contaminated Wood	1.5%	0.7%	12,452
Other Plastics	0.9%	0.3%	7,458	Other C&D Debris Not Elsewhere Classified	4.1%	1.6%	33,747
<b>Glass</b>	<b>1.9%</b>	<b>0.3%</b>	<b>15,917</b>	<b>Special Waste</b>	<b>0.4%</b>	<b>0.1%</b>	<b>3,034</b>
Clear Container Glass	0.9%	0.2%	7,364	Oil Filters	0.0%	0.0%	3
Green Container Glass	0.2%	0.1%	1,693	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.2%	0.1%	1,511	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	73	Water-Based Adhesives/Glues	0.0%	0.0%	0
Mixed Cullet	0.4%	0.1%	3,404	Latex Paint	0.1%	0.1%	431
Other Glass	0.2%	0.1%	1,872	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	118
<b>Metal</b>	<b>2.7%</b>	<b>0.7%</b>	<b>22,233</b>	Dry-Cell Batteries	0.1%	0.0%	661
Aluminum Cans	0.2%	0.1%	1,787	Fluorescent Tubes/CFLs	0.0%	0.0%	73
Aluminum Foil/Containers	0.5%	0.1%	4,483	Mercury-Laden Wastes	0.0%	0.0%	34
Other Aluminum	0.1%	0.0%	508	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.1%	0.1%	623	Home Medical Products	0.2%	0.1%	1,618
Steel/Tin Food Cans	0.5%	0.1%	4,319	Other Potentially Harmful Wastes	0.0%	0.0%	98
Empty Aerosol Cans	0.1%	0.0%	781				
Other Ferrous	0.5%	0.1%	4,368	<b>Miscellaneous Inorganics</b>	<b>0.9%</b>	<b>0.2%</b>	<b>7,021</b>
Mixed Metals	0.6%	0.7%	4,909				
Appliances: Ferrous	0.0%	0.0%	160	<b>Totals</b>	<b>100%</b>		<b>816,295</b>
Appliances: Non-Ferrous	0.0%	0.0%	294	<b>Sample Count</b>	<b>68</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 19c Manhattan Refuse Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>30.4%</b>	<b>2.4%</b>	<b>132,419</b>	<b>Organics</b>	<b>43.2%</b>	<b>3.0%</b>	<b>188,466</b>
Newspaper	2.3%	0.5%	9,843	Yard Waste	2.5%	1.6%	11,046
Plain OCC/Kraft Paper	2.5%	0.5%	11,070	Food	19.9%	1.9%	86,764
High Grade Paper	1.4%	0.5%	6,245	Non-C&D Wood	1.9%	1.0%	8,325
Mixed Low Grade Paper	11.7%	1.6%	51,004	Textiles: Non-Clothing	2.6%	0.8%	11,408
Paper: Compostable/Soiled/Waxed OCC/Kraft	10.8%	1.1%	47,180	Textiles: Clothing	3.5%	1.2%	15,057
Other Nonrecyclable Paper	1.3%	0.4%	5,786	Carpet/Upholstery	0.2%	0.2%	858
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.1%	1,291	Disposable Diapers/Sanitary Products	4.8%	0.9%	20,789
				Animal By-Products	2.5%	0.8%	10,930
<b>Plastic</b>	<b>16.2%</b>	<b>0.9%</b>	<b>70,749</b>	Shoes/Rubber/Leather	1.1%	0.3%	4,787
#1 PET Bottles	1.0%	0.2%	4,443	Fines	3.3%	0.4%	14,450
#2 HDPE Natural Bottles	0.2%	0.1%	1,036	Miscellaneous Organics	0.9%	0.3%	4,053
#2 HDPE Pigmented Bottles	0.3%	0.1%	1,338				
Other Plastic Bottles	0.1%	0.0%	419	<b>E-Waste</b>	<b>0.6%</b>	<b>0.4%</b>	<b>2,523</b>
Rigid Plastic Containers/Packaging	2.8%	0.3%	12,146	Audio/Visual Equipment-TV Peripherals (Covered)	0.2%	0.2%	792
#6 EPS Containers/Packaging (including Single Use)	0.7%	0.2%	2,912	Audio/Visual Equipment-Other (Non-Covered)	0.1%	0.0%	371
Film Plastic: Retail Bags/Sleeves	2.8%	0.3%	12,242	Computer Monitors	0.0%	0.0%	66
Film Plastic: Garbage Bags	3.7%	0.3%	15,968	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	121	Other Computer Equipment	0.3%	0.3%	1,293
Film Plastic: All Other Film	2.5%	0.2%	11,070				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.6%	0.2%	2,509	<b>Construction &amp; Demolition</b>	<b>2.6%</b>	<b>1.8%</b>	<b>11,463</b>
Appliances: Plastic	0.2%	0.2%	785	Untreated Dimensional Lumber/Pallets/Crates	0.2%	0.1%	839
Bulk/Rigid Plastic	0.6%	0.2%	2,530	Treated/Contaminated Wood	0.2%	0.1%	940
Other Plastics	0.7%	0.2%	3,230	Other C&D Debris Not Elsewhere Classified	2.2%	1.8%	9,684
<b>Glass</b>	<b>2.4%</b>	<b>0.4%</b>	<b>10,253</b>	<b>Special Waste</b>	<b>0.6%</b>	<b>0.4%</b>	<b>2,539</b>
Clear Container Glass	0.9%	0.2%	3,873	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.4%	0.2%	1,691	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.2%	0.1%	1,014	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	97	Water-Based Adhesives/Glues	0.0%	0.0%	45
Mixed Cullet	0.5%	0.2%	2,375	Latex Paint	0.2%	0.3%	1,071
Other Glass	0.3%	0.1%	1,204	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	21
<b>Metal</b>	<b>3.1%</b>	<b>0.8%</b>	<b>13,411</b>	Dry-Cell Batteries	0.1%	0.1%	556
Aluminum Cans	0.3%	0.1%	1,217	Fluorescent Tubes/CFLs	0.0%	0.0%	7
Aluminum Foil/Containers	0.5%	0.1%	2,109	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	94	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.2%	0.3%	874	Home Medical Products	0.1%	0.1%	485
Steel/Tin Food Cans	0.5%	0.1%	2,227	Other Potentially Harmful Wastes	0.1%	0.1%	355
Empty Aerosol Cans	0.1%	0.0%	491				
Other Ferrous	0.9%	0.3%	3,914	<b>Miscellaneous Inorganics</b>	<b>1.0%</b>	<b>0.4%</b>	<b>4,275</b>
Mixed Metals	0.6%	0.5%	2,485				
Appliances: Ferrous	0.0%	0.0%	0	<b>Totals</b>	<b>100%</b>		<b>436,099</b>
Appliances: Non-Ferrous	0.0%	0.0%	0	<b>Sample Count</b>	<b>43</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 19d Queens Refuse Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>18.3%</b>	<b>1.3%</b>	<b>131,600</b>	<b>Organics</b>	<b>55.3%</b>	<b>2.8%</b>	<b>397,999</b>
Newspaper	1.2%	0.3%	8,747	Yard Waste	11.2%	2.5%	80,851
Plain OCC/Kraft Paper	1.0%	0.2%	7,366	Food	21.9%	1.9%	157,650
High Grade Paper	0.6%	0.2%	4,645	Non-C&D Wood	5.0%	2.9%	35,678
Mixed Low Grade Paper	5.9%	0.6%	42,311	Textiles: Non-Clothing	1.9%	0.5%	13,864
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.6%	0.7%	61,945	Textiles: Clothing	2.8%	0.6%	19,947
Other Nonrecyclable Paper	0.7%	0.1%	5,141	Carpet/Upholstery	2.0%	1.1%	14,669
Paper Beverage Cartons/Aseptic Boxes	0.2%	0.0%	1,445	Disposable Diapers/Sanitary Products	4.3%	0.7%	30,852
				Animal By-Products	1.4%	0.4%	10,023
<b>Plastic</b>	<b>12.0%</b>	<b>0.9%</b>	<b>86,313</b>	Shoes/Rubber/Leather	1.4%	0.4%	9,930
#1 PET Bottles	0.8%	0.1%	5,636	Fines	2.9%	0.3%	20,725
#2 HDPE Natural Bottles	0.2%	0.1%	1,237	Miscellaneous Organics	0.5%	0.2%	3,810
#2 HDPE Pigmented Bottles	0.2%	0.1%	1,208				
Other Plastic Bottles	0.1%	0.0%	592	<b>E-Waste</b>	<b>1.1%</b>	<b>0.7%</b>	<b>8,083</b>
Rigid Plastic Containers/Packaging	1.2%	0.2%	8,878	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.0%	368
#6 EPS Containers/Packaging (including Single Use)	1.0%	0.2%	7,536	Audio/Visual Equipment-Other (Non-Covered)	0.3%	0.2%	2,028
Film Plastic: Retail Bags/Sleeves	2.5%	0.3%	18,050	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	2.1%	0.2%	15,077	Televisions	0.5%	0.7%	3,461
Film Plastic: Food/Drink Pouches	0.0%	0.0%	254	Other Computer Equipment	0.3%	0.2%	2,226
Film Plastic: All Other Film	2.0%	0.2%	14,195				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.4%	0.1%	3,099	<b>Construction &amp; Demolition</b>	<b>7.5%</b>	<b>2.2%</b>	<b>54,013</b>
Appliances: Plastic	0.0%	0.0%	169	Untreated Dimensional Lumber/Pallets/Crates	1.4%	0.7%	10,194
Bulk/Rigid Plastic	0.7%	0.2%	4,900	Treated/Contaminated Wood	2.7%	1.8%	19,762
Other Plastics	0.8%	0.3%	5,481	Other C&D Debris Not Elsewhere Classified	3.3%	1.3%	24,057
<b>Glass</b>	<b>1.7%</b>	<b>0.3%</b>	<b>12,208</b>	<b>Special Waste</b>	<b>0.3%</b>	<b>0.1%</b>	<b>2,388</b>
Clear Container Glass	0.8%	0.2%	5,942	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.1%	0.1%	1,062	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.1%	0.0%	700	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	35	Water-Based Adhesives/Glues	0.0%	0.0%	0
Mixed Cullet	0.2%	0.1%	1,430	Latex Paint	0.0%	0.0%	3
Other Glass	0.4%	0.1%	3,038	Oil-Based Paint/Solvent	0.0%	0.0%	0
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	41
<b>Metal</b>	<b>2.8%</b>	<b>0.8%</b>	<b>20,257</b>	Dry-Cell Batteries	0.1%	0.0%	735
Aluminum Cans	0.2%	0.0%	1,240	Fluorescent Tubes/CFLs	0.0%	0.0%	96
Aluminum Foil/Containers	0.5%	0.1%	3,519	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.1%	0.0%	456	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	55
Other Non-Ferrous	0.1%	0.1%	610	Home Medical Products	0.1%	0.1%	815
Steel/Tin Food Cans	0.4%	0.1%	2,738	Other Potentially Harmful Wastes	0.1%	0.1%	642
Empty Aerosol Cans	0.1%	0.0%	762				
Other Ferrous	1.0%	0.7%	7,287	<b>Miscellaneous Inorganics</b>	<b>0.9%</b>	<b>0.4%</b>	<b>6,611</b>
Mixed Metals	0.4%	0.2%	2,845				
Appliances: Ferrous	0.1%	0.2%	800	<b>Totals</b>	<b>100%</b>		<b>719,473</b>
Appliances: Non-Ferrous	0.0%	0.0%	0	<b>Sample Count</b>	<b>57</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 19e Staten Island Refuse Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>20.6%</b>	<b>1.9%</b>	<b>38,526</b>	<b>Organics</b>	<b>57.2%</b>	<b>2.6%</b>	<b>107,129</b>
Newspaper	1.7%	0.4%	3,192	Yard Waste	16.6%	3.0%	31,078
Plain OCC/Kraft Paper	1.6%	0.5%	2,912	Food	18.4%	1.5%	34,502
High Grade Paper	0.8%	0.3%	1,433	Non-C&D Wood	4.4%	1.8%	8,197
Mixed Low Grade Paper	6.0%	0.8%	11,218	Textiles: Non-Clothing	2.3%	0.6%	4,255
Paper: Compostable/Soiled/Waxed OCC/Kraft	9.6%	0.8%	17,999	Textiles: Clothing	2.8%	0.7%	5,156
Other Nonrecyclable Paper	0.8%	0.2%	1,489	Carpet/Upholstery	1.4%	1.1%	2,648
Paper Beverage Cartons/Aseptic Boxes	0.2%	0.1%	283	Disposable Diapers/Sanitary Products	4.2%	0.6%	7,865
				Animal By-Products	1.8%	0.6%	3,282
<b>Plastic</b>	<b>11.2%</b>	<b>1.1%</b>	<b>20,933</b>	Shoes/Rubber/Leather	1.3%	0.4%	2,471
#1 PET Bottles	0.8%	0.1%	1,408	Fines	3.3%	0.5%	6,164
#2 HDPE Natural Bottles	0.2%	0.1%	302	Miscellaneous Organics	0.8%	0.3%	1,510
#2 HDPE Pigmented Bottles	0.2%	0.1%	302				
Other Plastic Bottles	0.1%	0.0%	158	<b>E-Waste</b>	<b>0.7%</b>	<b>0.4%</b>	<b>1,356</b>
Rigid Plastic Containers/Packaging	1.2%	0.1%	2,209	Audio/Visual Equipment-TV Peripherals (Covered)	0.2%	0.2%	328
#6 EPS Containers/Packaging (including Single Use)	0.6%	0.1%	1,213	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	442
Film Plastic: Retail Bags/Sleeves	1.9%	0.2%	3,537	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	1.7%	0.2%	3,154	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	47	Other Computer Equipment	0.3%	0.3%	586
Film Plastic: All Other Film	1.7%	0.2%	3,099				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.4%	0.1%	817	<b>Construction &amp; Demolition</b>	<b>4.8%</b>	<b>2.2%</b>	<b>9,001</b>
Appliances: Plastic	0.5%	0.4%	954	Untreated Dimensional Lumber/Pallets/Crates	0.8%	0.9%	1,483
Bulk/Rigid Plastic	1.4%	0.6%	2,664	Treated/Contaminated Wood	1.1%	0.6%	2,022
Other Plastics	0.6%	0.2%	1,070	Other C&D Debris Not Elsewhere Classified	2.9%	1.7%	5,495
<b>Glass</b>	<b>1.5%</b>	<b>0.3%</b>	<b>2,810</b>	<b>Special Waste</b>	<b>0.7%</b>	<b>0.3%</b>	<b>1,362</b>
Clear Container Glass	0.7%	0.2%	1,378	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.1%	0.1%	192	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.1%	0.1%	176	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	12	Water-Based Adhesives/Glues	0.0%	0.0%	0
Mixed Cullet	0.1%	0.1%	274	Latex Paint	0.1%	0.2%	272
Other Glass	0.4%	0.2%	778	Oil-Based Paint/Solvent	0.0%	0.0%	43
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	32
<b>Metal</b>	<b>2.6%</b>	<b>0.5%</b>	<b>4,838</b>	Dry-Cell Batteries	0.1%	0.0%	148
Aluminum Cans	0.2%	0.1%	391	Fluorescent Tubes/CFLs	0.0%	0.0%	11
Aluminum Foil/Containers	0.4%	0.1%	722	Mercury-Laden Wastes	0.0%	0.0%	9
Other Aluminum	0.0%	0.0%	76	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.1%	0.1%	220	Home Medical Products	0.3%	0.2%	618
Steel/Tin Food Cans	0.3%	0.1%	574	Other Potentially Harmful Wastes	0.1%	0.1%	229
Empty Aerosol Cans	0.1%	0.0%	214				
Other Ferrous	0.6%	0.2%	1,193	<b>Miscellaneous Inorganics</b>	<b>0.6%</b>	<b>0.3%</b>	<b>1,198</b>
Mixed Metals	0.4%	0.2%	683				
Appliances: Ferrous	0.4%	0.4%	699	<b>Totals</b>	<b>100%</b>		<b>187,153</b>
Appliances: Non-Ferrous	0.0%	0.0%	68	<b>Sample Count</b>	<b>44</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 20a Bronx Aggregate Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>23.0%</b>	<b>1.5%</b>	<b>111,600</b>	<b>Organics</b>	<b>46.4%</b>	<b>2.2%</b>	<b>225,432</b>
Newspaper	2.3%	0.3%	10,995	Yard Waste	3.5%	1.6%	16,848
Plain OCC/Kraft Paper	3.7%	0.5%	18,184	Food	19.0%	1.7%	92,442
High Grade Paper	1.1%	0.4%	5,314	Non-C&D Wood	4.6%	2.2%	22,457
Mixed Low Grade Paper	7.9%	0.8%	38,550	Textiles: Non-Clothing	2.5%	0.6%	12,378
Paper: Compostable/Soiled/Waxed OCC/Kraft	6.5%	0.8%	31,634	Textiles: Clothing	3.7%	0.8%	17,984
Other Nonrecyclable Paper	0.9%	0.2%	4,286	Carpet/Upholstery	1.3%	0.8%	6,454
Paper Beverage Cartons/Aseptic Boxes	0.5%	0.1%	2,637	Disposable Diapers/Sanitary Products	4.0%	0.6%	19,672
				Animal By-Products	2.2%	0.9%	10,761
<b>Plastic</b>	<b>15.7%</b>	<b>0.8%</b>	<b>76,359</b>	Shoes/Rubber/Leather	1.2%	0.3%	5,906
#1 PET Bottles	1.8%	0.2%	8,529	Fines	3.4%	0.3%	16,723
#2 HDPE Natural Bottles	0.6%	0.1%	2,917	Miscellaneous Organics	0.8%	0.2%	3,808
#2 HDPE Pigmented Bottles	0.5%	0.1%	2,338				
Other Plastic Bottles	0.1%	0.0%	598	<b>E-Waste</b>	<b>0.7%</b>	<b>0.3%</b>	<b>3,241</b>
Rigid Plastic Containers/Packaging	1.4%	0.1%	6,640	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.1%	331
#6 EPS Containers/Packaging (including Single Use)	0.9%	0.1%	4,350	Audio/Visual Equipment-Other (Non-Covered)	0.4%	0.2%	1,949
Film Plastic: Retail Bags/Sleeves	2.5%	0.2%	12,121	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	3.1%	0.2%	14,961	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	239	Other Computer Equipment	0.2%	0.1%	961
Film Plastic: All Other Film	1.9%	0.2%	9,424				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.3%	0.1%	1,662	<b>Construction &amp; Demolition</b>	<b>5.2%</b>	<b>1.3%</b>	<b>25,384</b>
Appliances: Plastic	0.4%	0.4%	2,098	Untreated Dimensional Lumber/Pallets/Crates	0.3%	0.1%	1,244
Bulk/Rigid Plastic	1.4%	0.5%	6,727	Treated/Contaminated Wood	1.0%	0.5%	4,673
Other Plastics	0.8%	0.2%	3,756	Other C&D Debris Not Elsewhere Classified	4.0%	1.2%	19,468
<b>Glass</b>	<b>4.2%</b>	<b>0.5%</b>	<b>20,354</b>	<b>Special Waste</b>	<b>0.3%</b>	<b>0.1%</b>	<b>1,351</b>
Clear Container Glass	2.0%	0.3%	9,549	Oil Filters	0.0%	0.0%	1
Green Container Glass	0.3%	0.1%	1,611	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.5%	0.2%	2,494	Wet-Cell Batteries	0.0%	0.0%	3
Other Color Container Glass	0.0%	0.0%	186	Water-Based Adhesives/Glues	0.0%	0.0%	34
Mixed Cullet	1.1%	0.2%	5,130	Latex Paint	0.0%	0.0%	14
Other Glass	0.3%	0.1%	1,384	Oil-Based Paint/Solvent	0.0%	0.0%	36
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	57
<b>Metal</b>	<b>3.9%</b>	<b>0.9%</b>	<b>19,053</b>	Dry-Cell Batteries	0.1%	0.0%	458
Aluminum Cans	0.4%	0.1%	1,734	Fluorescent Tubes/CFLs	0.0%	0.0%	4
Aluminum Foil/Containers	0.5%	0.1%	2,277	Mercury-Laden Wastes	0.0%	0.0%	9
Other Aluminum	0.2%	0.1%	1,026	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	41
Other Non-Ferrous	0.1%	0.0%	308	Home Medical Products	0.1%	0.1%	670
Steel/Tin Food Cans	1.2%	0.1%	5,959	Other Potentially Harmful Wastes	0.0%	0.0%	25
Empty Aerosol Cans	0.1%	0.0%	655				
Other Ferrous	0.4%	0.1%	2,173	<b>Miscellaneous Inorganics</b>	<b>0.7%</b>	<b>0.5%</b>	<b>3,497</b>
Mixed Metals	0.2%	0.1%	925				
Appliances: Ferrous	0.8%	0.9%	3,793	<b>Totals</b>	<b>100%</b>		<b>486,270</b>
Appliances: Non-Ferrous	0.0%	0.1%	202	<b>Sample Count</b>	<b>102</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.



**Exhibit 20b Brooklyn Aggregate Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>26.0%</b>	<b>0.9%</b>	<b>249,848</b>	<b>Organics</b>	<b>44.5%</b>	<b>1.8%</b>	<b>427,745</b>
Newspaper	3.4%	0.5%	32,222	Yard Waste	4.9%	1.1%	46,635
Plain OCC/Kraft Paper	3.8%	0.5%	36,955	Food	18.6%	1.3%	179,097
High Grade Paper	1.4%	0.4%	13,669	Non-C&D Wood	3.3%	1.3%	32,193
Mixed Low Grade Paper	8.9%	0.7%	85,145	Textiles: Non-Clothing	2.8%	0.8%	27,147
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.3%	0.5%	69,930	Textiles: Clothing	3.0%	0.6%	29,134
Other Nonrecyclable Paper	0.8%	0.1%	7,961	Carpet/Upholstery	1.4%	0.7%	13,275
Paper Beverage Cartons/Aseptic Boxes	0.4%	0.1%	3,967	Disposable Diapers/Sanitary Products	4.0%	0.6%	38,468
				Animal By-Products	2.0%	0.6%	18,919
<b>Plastic</b>	<b>13.9%</b>	<b>0.8%</b>	<b>133,347</b>	Shoes/Rubber/Leather	0.9%	0.2%	8,812
#1 PET Bottles	1.3%	0.1%	12,480	Fines	3.0%	0.2%	28,363
#2 HDPE Natural Bottles	0.5%	0.1%	4,841	Miscellaneous Organics	0.6%	0.2%	5,702
#2 HDPE Pigmented Bottles	0.4%	0.1%	3,623				
Other Plastic Bottles	0.1%	0.0%	1,163	<b>E-Waste</b>	<b>1.2%</b>	<b>0.7%</b>	<b>11,357</b>
Rigid Plastic Containers/Packaging	1.3%	0.1%	12,868	Audio/Visual Equipment-TV Peripherals (Covered)	0.2%	0.1%	1,670
#6 EPS Containers/Packaging (including Single Use)	0.8%	0.1%	8,070	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	1,544
Film Plastic: Retail Bags/Sleeves	2.6%	0.2%	24,688	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	2.3%	0.2%	22,445	Televisions	0.5%	0.6%	4,464
Film Plastic: Food/Drink Pouches	0.0%	0.0%	372	Other Computer Equipment	0.4%	0.3%	3,680
Film Plastic: All Other Film	2.0%	0.2%	18,921				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.6%	0.1%	6,029	<b>Construction &amp; Demolition</b>	<b>5.8%</b>	<b>1.5%</b>	<b>56,146</b>
Appliances: Plastic	0.3%	0.2%	2,833	Untreated Dimensional Lumber/Pallets/Crates	1.0%	0.5%	9,709
Bulk/Rigid Plastic	0.7%	0.2%	6,293	Treated/Contaminated Wood	1.3%	0.6%	12,567
Other Plastics	0.9%	0.2%	8,722	Other C&D Debris Not Elsewhere Classified	3.5%	1.3%	33,870
<b>Glass</b>	<b>4.2%</b>	<b>0.3%</b>	<b>40,243</b>	<b>Special Waste</b>	<b>0.4%</b>	<b>0.1%</b>	<b>3,606</b>
Clear Container Glass	1.9%	0.2%	18,429	Oil Filters	0.0%	0.0%	3
Green Container Glass	0.6%	0.1%	6,065	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.4%	0.1%	3,748	Wet-Cell Batteries	0.0%	0.0%	14
Other Color Container Glass	0.0%	0.0%	267	Water-Based Adhesives/Glues	0.0%	0.0%	47
Mixed Cullet	0.9%	0.2%	9,002	Latex Paint	0.1%	0.1%	723
Other Glass	0.3%	0.1%	2,732	Oil-Based Paint/Solvent	0.0%	0.0%	71
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	132
<b>Metal</b>	<b>3.3%</b>	<b>0.6%</b>	<b>31,328</b>	Dry-Cell Batteries	0.1%	0.0%	679
Aluminum Cans	0.3%	0.1%	2,487	Fluorescent Tubes/CFLs	0.0%	0.0%	79
Aluminum Foil/Containers	0.5%	0.1%	5,176	Mercury-Laden Wastes	0.0%	0.0%	34
Other Aluminum	0.1%	0.1%	1,005	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.1%	0.1%	896	Home Medical Products	0.2%	0.1%	1,717
Steel/Tin Food Cans	0.8%	0.1%	8,026	Other Potentially Harmful Wastes	0.0%	0.0%	108
Empty Aerosol Cans	0.1%	0.0%	1,228				
Other Ferrous	0.6%	0.1%	5,578	<b>Miscellaneous Inorganics</b>	<b>0.8%</b>	<b>0.2%</b>	<b>7,448</b>
Mixed Metals	0.6%	0.6%	5,286				
Appliances: Ferrous	0.1%	0.1%	1,245	<b>Totals</b>	<b>100%</b>		<b>961,069</b>
Appliances: Non-Ferrous	0.0%	0.0%	401	<b>Sample Count</b>	<b>132</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 20c Manhattan Aggregate Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>36.5%</b>	<b>1.9%</b>	<b>199,601</b>	<b>Organics</b>	<b>34.8%</b>	<b>2.4%</b>	<b>190,556</b>
Newspaper	4.0%	0.5%	21,948	Yard Waste	2.0%	1.3%	11,064
Plain OCC/Kraft Paper	5.7%	0.7%	31,446	Food	16.0%	1.5%	87,854
High Grade Paper	2.2%	0.6%	12,085	Non-C&D Wood	1.5%	0.8%	8,471
Mixed Low Grade Paper	14.2%	1.4%	77,951	Textiles: Non-Clothing	2.1%	0.6%	11,599
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.7%	0.9%	47,408	Textiles: Clothing	2.8%	0.9%	15,139
Other Nonrecyclable Paper	1.2%	0.3%	6,468	Carpet/Upholstery	0.2%	0.2%	858
Paper Beverage Cartons/Aseptic Boxes	0.4%	0.0%	2,296	Disposable Diapers/Sanitary Products	3.8%	0.7%	20,809
				Animal By-Products	2.0%	0.7%	10,968
<b>Plastic</b>	<b>15.2%</b>	<b>0.7%</b>	<b>83,256</b>	Shoes/Rubber/Leather	0.9%	0.2%	4,899
#1 PET Bottles	1.4%	0.1%	7,508	Fines	2.7%	0.3%	14,810
#2 HDPE Natural Bottles	0.4%	0.1%	2,249	Miscellaneous Organics	0.7%	0.3%	4,085
#2 HDPE Pigmented Bottles	0.4%	0.1%	2,384				
Other Plastic Bottles	0.1%	0.0%	638	<b>E-Waste</b>	<b>0.5%</b>	<b>0.3%</b>	<b>2,789</b>
Rigid Plastic Containers/Packaging	2.5%	0.3%	13,934	Audio/Visual Equipment-TV Peripherals (Covered)	0.2%	0.2%	834
#6 EPS Containers/Packaging (including Single Use)	0.5%	0.1%	3,008	Audio/Visual Equipment-Other (Non-Covered)	0.1%	0.0%	462
Film Plastic: Retail Bags/Sleeves	2.3%	0.2%	12,545	Computer Monitors	0.0%	0.0%	66
Film Plastic: Garbage Bags	3.4%	0.3%	18,528	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	122	Other Computer Equipment	0.3%	0.2%	1,426
Film Plastic: All Other Film	2.1%	0.2%	11,534				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.5%	0.1%	2,645	<b>Construction &amp; Demolition</b>	<b>2.1%</b>	<b>1.5%</b>	<b>11,502</b>
Appliances: Plastic	0.2%	0.1%	1,001	Untreated Dimensional Lumber/Pallets/Crates	0.2%	0.1%	839
Bulk/Rigid Plastic	0.6%	0.1%	3,319	Treated/Contaminated Wood	0.2%	0.1%	940
Other Plastics	0.7%	0.2%	3,841	Other C&D Debris Not Elsewhere Classified	1.8%	1.5%	9,722
<b>Glass</b>	<b>6.1%</b>	<b>0.4%</b>	<b>33,395</b>	<b>Special Waste</b>	<b>0.5%</b>	<b>0.3%</b>	<b>2,658</b>
Clear Container Glass	1.6%	0.2%	8,578	Oil Filters	0.0%	0.0%	0
Green Container Glass	1.3%	0.2%	6,942	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.4%	0.1%	2,127	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	154	Water-Based Adhesives/Glues	0.0%	0.0%	54
Mixed Cullet	2.5%	0.3%	13,916	Latex Paint	0.2%	0.3%	1,080
Other Glass	0.3%	0.1%	1,678	Oil-Based Paint/Solvent	0.0%	0.0%	19
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	21
<b>Metal</b>	<b>3.5%</b>	<b>0.7%</b>	<b>19,141</b>	Dry-Cell Batteries	0.1%	0.1%	572
Aluminum Cans	0.3%	0.1%	1,652	Fluorescent Tubes/CFLs	0.0%	0.0%	12
Aluminum Foil/Containers	0.4%	0.1%	2,247	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.0%	0.0%	122	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.2%	0.2%	1,030	Home Medical Products	0.1%	0.1%	546
Steel/Tin Food Cans	0.8%	0.1%	4,116	Other Potentially Harmful Wastes	0.1%	0.0%	355
Empty Aerosol Cans	0.1%	0.0%	753				
Other Ferrous	1.0%	0.2%	5,236	<b>Miscellaneous Inorganics</b>	<b>0.8%</b>	<b>0.3%</b>	<b>4,608</b>
Mixed Metals	0.5%	0.4%	2,770				
Appliances: Ferrous	0.2%	0.2%	1,045	<b>Totals</b>	<b>100%</b>		<b>547,505</b>
Appliances: Non-Ferrous	0.0%	0.0%	170	<b>Sample Count</b>	<b>106</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 20d Queens Aggregate Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>24.4%</b>	<b>1.1%</b>	<b>209,878</b>	<b>Organics</b>	<b>46.8%</b>	<b>2.3%</b>	<b>403,139</b>
Newspaper	2.9%	0.4%	25,232	Yard Waste	9.4%	2.1%	80,989
Plain OCC/Kraft Paper	4.5%	0.5%	38,981	Food	18.6%	1.6%	160,242
High Grade Paper	0.9%	0.2%	7,612	Non-C&D Wood	4.2%	2.5%	35,854
Mixed Low Grade Paper	7.6%	0.6%	65,594	Textiles: Non-Clothing	1.6%	0.4%	14,015
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.3%	0.6%	62,952	Textiles: Clothing	2.3%	0.5%	20,098
Other Nonrecyclable Paper	0.7%	0.1%	6,138	Carpet/Upholstery	1.7%	0.9%	14,669
Paper Beverage Cartons/Aseptic Boxes	0.4%	0.1%	3,370	Disposable Diapers/Sanitary Products	3.6%	0.6%	31,006
				Animal By-Products	1.2%	0.3%	10,157
<b>Plastic</b>	<b>12.9%</b>	<b>0.7%</b>	<b>110,883</b>	Shoes/Rubber/Leather	1.2%	0.3%	10,721
#1 PET Bottles	1.4%	0.1%	12,248	Fines	2.5%	0.3%	21,385
#2 HDPE Natural Bottles	0.6%	0.1%	4,768	Miscellaneous Organics	0.5%	0.1%	4,003
#2 HDPE Pigmented Bottles	0.5%	0.1%	3,891				
Other Plastic Bottles	0.1%	0.0%	1,245	<b>E-Waste</b>	<b>1.0%</b>	<b>0.6%</b>	<b>8,564</b>
Rigid Plastic Containers/Packaging	1.4%	0.2%	11,805	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.0%	506
#6 EPS Containers/Packaging (including Single Use)	0.9%	0.1%	7,798	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.2%	2,101
Film Plastic: Retail Bags/Sleeves	2.2%	0.2%	18,793	Computer Monitors	0.0%	0.0%	0
Film Plastic: Garbage Bags	2.1%	0.2%	17,771	Televisions	0.4%	0.6%	3,461
Film Plastic: Food/Drink Pouches	0.0%	0.0%	263	Other Computer Equipment	0.3%	0.1%	2,495
Film Plastic: All Other Film	1.7%	0.2%	14,939				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.4%	0.1%	3,341	<b>Construction &amp; Demolition</b>	<b>6.4%</b>	<b>1.8%</b>	<b>54,803</b>
Appliances: Plastic	0.0%	0.0%	425	Untreated Dimensional Lumber/Pallets/Crates	1.2%	0.6%	10,212
Bulk/Rigid Plastic	0.8%	0.2%	7,154	Treated/Contaminated Wood	2.3%	1.5%	19,783
Other Plastics	0.7%	0.2%	6,443	Other C&D Debris Not Elsewhere Classified	2.9%	1.1%	24,808
<b>Glass</b>	<b>3.6%</b>	<b>0.3%</b>	<b>31,345</b>	<b>Special Waste</b>	<b>0.3%</b>	<b>0.1%</b>	<b>2,924</b>
Clear Container Glass	1.7%	0.2%	14,916	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.5%	0.1%	4,409	Antifreeze	0.0%	0.0%	0
Brown Container Glass	0.3%	0.1%	2,198	Wet-Cell Batteries	0.0%	0.0%	3
Other Color Container Glass	0.0%	0.0%	287	Water-Based Adhesives/Glues	0.0%	0.0%	27
Mixed Cullet	0.7%	0.2%	5,682	Latex Paint	0.0%	0.0%	277
Other Glass	0.4%	0.1%	3,853	Oil-Based Paint/Solvent	0.0%	0.0%	88
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	41
<b>Metal</b>	<b>3.7%</b>	<b>0.7%</b>	<b>32,018</b>	Dry-Cell Batteries	0.1%	0.0%	773
Aluminum Cans	0.2%	0.0%	2,148	Fluorescent Tubes/CFLs	0.0%	0.0%	112
Aluminum Foil/Containers	0.5%	0.1%	4,125	Mercury-Laden Wastes	0.0%	0.0%	0
Other Aluminum	0.1%	0.0%	492	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	55
Other Non-Ferrous	0.1%	0.1%	1,002	Home Medical Products	0.1%	0.0%	860
Steel/Tin Food Cans	0.8%	0.1%	7,165	Other Potentially Harmful Wastes	0.1%	0.1%	689
Empty Aerosol Cans	0.2%	0.0%	1,319				
Other Ferrous	1.2%	0.6%	10,183	<b>Miscellaneous Inorganics</b>	<b>0.9%</b>	<b>0.3%</b>	<b>7,430</b>
Mixed Metals	0.4%	0.2%	3,872				
Appliances: Ferrous	0.2%	0.2%	1,666	<b>Totals</b>	<b>100%</b>		<b>860,985</b>
Appliances: Non-Ferrous	0.0%	0.0%	46	<b>Sample Count</b>	<b>127</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 20e Staten Island Aggregate Composition**

<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>	<b>Material</b>	<b>Estimated Percent</b>	<b>+ / -</b>	<b>Estimated Tons</b>
<b>Paper</b>	<b>27.6%</b>	<b>1.5%</b>	<b>63,511</b>	<b>Organics</b>	<b>47.1%</b>	<b>2.1%</b>	<b>108,364</b>
Newspaper	4.6%	0.5%	10,638	Yard Waste	13.6%	2.4%	31,180
Plain OCC/Kraft Paper	4.6%	0.6%	10,473	Food	15.3%	1.2%	35,268
High Grade Paper	1.0%	0.2%	2,297	Non-C&D Wood	3.6%	1.4%	8,212
Mixed Low Grade Paper	8.5%	0.8%	19,475	Textiles: Non-Clothing	1.9%	0.5%	4,280
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.0%	0.7%	18,330	Textiles: Clothing	2.3%	0.6%	5,190
Other Nonrecyclable Paper	0.7%	0.2%	1,705	Carpet/Upholstery	1.2%	0.9%	2,649
Paper Beverage Cartons/Aseptic Boxes	0.3%	0.1%	592	Disposable Diapers/Sanitary Products	3.4%	0.5%	7,905
				Animal By-Products	1.4%	0.5%	3,287
<b>Plastic</b>	<b>12.1%</b>	<b>0.9%</b>	<b>27,734</b>	Shoes/Rubber/Leather	1.1%	0.3%	2,503
#1 PET Bottles	1.5%	0.1%	3,508	Fines	2.8%	0.4%	6,337
#2 HDPE Natural Bottles	0.4%	0.1%	974	Miscellaneous Organics	0.7%	0.2%	1,552
#2 HDPE Pigmented Bottles	0.5%	0.1%	1,119				
Other Plastic Bottles	0.1%	0.0%	316	<b>E-Waste</b>	<b>0.6%</b>	<b>0.3%</b>	<b>1,463</b>
Rigid Plastic Containers/Packaging	1.3%	0.1%	2,993	Audio/Visual Equipment-TV Peripherals (Covered)	0.1%	0.2%	328
#6 EPS Containers/Packaging (including Single Use)	0.6%	0.1%	1,286	Audio/Visual Equipment-Other (Non-Covered)	0.2%	0.1%	489
Film Plastic: Retail Bags/Sleeves	1.6%	0.2%	3,776	Computer Monitors	0.0%	0.0%	12
Film Plastic: Garbage Bags	1.6%	0.1%	3,636	Televisions	0.0%	0.0%	0
Film Plastic: Food/Drink Pouches	0.0%	0.0%	49	Other Computer Equipment	0.3%	0.3%	634
Film Plastic: All Other Film	1.4%	0.1%	3,278				
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	0.4%	0.1%	923	<b>Construction &amp; Demolition</b>	<b>3.9%</b>	<b>1.8%</b>	<b>9,041</b>
Appliances: Plastic	0.4%	0.3%	980	Untreated Dimensional Lumber/Pallets/Crates	0.6%	0.7%	1,483
Bulk/Rigid Plastic	1.5%	0.5%	3,497	Treated/Contaminated Wood	0.9%	0.5%	2,034
Other Plastics	0.6%	0.2%	1,399	Other C&D Debris Not Elsewhere Classified	2.4%	1.4%	5,523
<b>Glass</b>	<b>4.0%</b>	<b>0.3%</b>	<b>9,161</b>	<b>Special Waste</b>	<b>0.7%</b>	<b>0.3%</b>	<b>1,515</b>
Clear Container Glass	1.9%	0.2%	4,325	Oil Filters	0.0%	0.0%	0
Green Container Glass	0.6%	0.1%	1,416	Antifreeze	0.0%	0.0%	4
Brown Container Glass	0.3%	0.1%	804	Wet-Cell Batteries	0.0%	0.0%	0
Other Color Container Glass	0.0%	0.0%	74	Water-Based Adhesives/Glues	0.0%	0.0%	50
Mixed Cullet	0.6%	0.2%	1,365	Latex Paint	0.1%	0.2%	316
Other Glass	0.5%	0.2%	1,177	Oil-Based Paint/Solvent	0.0%	0.0%	57
				Pesticides/Herbicides/Rodenticides	0.0%	0.0%	32
<b>Metal</b>	<b>3.4%</b>	<b>0.4%</b>	<b>7,748</b>	Dry-Cell Batteries	0.1%	0.0%	163
Aluminum Cans	0.3%	0.0%	723	Fluorescent Tubes/CFLs	0.0%	0.0%	12
Aluminum Foil/Containers	0.4%	0.1%	893	Mercury-Laden Wastes	0.0%	0.0%	9
Other Aluminum	0.0%	0.0%	104	Compressed Gas Cylinders/Fire Extinguishers	0.0%	0.0%	0
Other Non-Ferrous	0.1%	0.1%	292	Home Medical Products	0.3%	0.2%	625
Steel/Tin Food Cans	0.8%	0.1%	1,732	Other Potentially Harmful Wastes	0.1%	0.1%	247
Empty Aerosol Cans	0.2%	0.0%	396				
Other Ferrous	0.7%	0.2%	1,722	<b>Miscellaneous Inorganics</b>	<b>0.6%</b>	<b>0.3%</b>	<b>1,484</b>
Mixed Metals	0.3%	0.1%	769				
Appliances: Ferrous	0.4%	0.4%	834	<b>Totals</b>	<b>100%</b>		<b>230,021</b>
Appliances: Non-Ferrous	0.1%	0.1%	284	<b>Sample Count</b>	<b>102</b>		

Confidence intervals calculated at the 90% confidence level. Percentages for material types may not total 100% due to rounding.

**Exhibit 21a Bronx MGP 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Clear Container Glass	14.7%	14.7%	4,164
#1 PET Bottles	11.4%	26.1%	3,233
Mixed Cullet	10.0%	36.1%	2,844
#2 HDPE Bottles	9.7%	45.8%	2,738
Steel/Tin Food Cans	7.7%	53.5%	2,192
Bulk/Rigid Plastic	5.4%	58.9%	1,530
Green Container Glass	4.0%	62.9%	1,142
Rigid Plastic Containers/Packaging	4.0%	66.9%	1,122
Film Plastic: Garbage Bags	3.4%	70.3%	961
Brown Container Glass	3.4%	73.6%	953
<b>Subtotal</b>	<b>73.6%</b>		<b>20,879</b>
All other materials	26.4%		7,482
<b>Total</b>	<b>100.0%</b>		<b>28,361</b>

**Exhibit 21b Brooklyn MGP 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Clear Container Glass	18.3%	18.3%	10,988
Mixed Cullet	9.2%	27.5%	5,535
#1 PET Bottles	9.1%	36.6%	5,443
#2 HDPE Bottles	7.9%	44.4%	4,716
Green Container Glass	7.2%	51.7%	4,346
Steel/Tin Food Cans	6.0%	57.7%	3,630
Brown Container Glass	3.7%	61.4%	2,236
Rigid Plastic Containers/Packaging	3.7%	65.1%	2,200
Film Plastic: Garbage Bags	3.1%	68.2%	1,875
Mixed Low Grade Paper	2.9%	71.2%	1,771
<b>Subtotal</b>	<b>71.2%</b>		<b>42,739</b>
All other materials	28.8%		17,329
<b>Total</b>	<b>100.0%</b>		<b>60,069</b>

**Exhibit 21c Manhattan MGP 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Mixed Cullet	26.7%	26.7%	11,516
Green Container Glass	12.1%	38.8%	5,205
Clear Container Glass	10.8%	49.5%	4,637
#1 PET Bottles	6.9%	56.5%	2,997
#2 HDPE Bottles	5.2%	61.6%	2,227
Steel/Tin Food Cans	4.3%	65.9%	1,849
Film Plastic: Garbage Bags	4.0%	69.9%	1,712
Rigid Plastic Containers/Packaging	3.9%	73.8%	1,673
Other Ferrous	3.0%	76.8%	1,296
Brown Container Glass	2.6%	79.4%	1,102
<b>Subtotal</b>	<b>79.4%</b>		<b>34,215</b>
All other materials	20.6%		8,903
<b>Total</b>	<b>100.0%</b>		<b>43,118</b>

**Exhibit 21d Queens MGP 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Clear Container Glass	14.2%	14.2%	8,833
#1 PET Bottles	10.3%	24.5%	6,437
#2 HDPE Bottles	9.8%	34.3%	6,102
Steel/Tin Food Cans	6.9%	41.2%	4,320
Mixed Cullet	6.8%	48.0%	4,207
Green Container Glass	5.4%	53.3%	3,346
Other Ferrous	4.5%	57.9%	2,834
Rigid Plastic Containers/Packaging	4.3%	62.2%	2,704
Bulk/Rigid Plastic	3.5%	65.7%	2,178
Food	3.1%	68.8%	1,933
<b>Subtotal</b>	<b>68.8%</b>		<b>42,895</b>
All other materials	31.2%		19,436
<b>Total</b>	<b>100.0%</b>		<b>62,331</b>



**Exhibit 21e Staten Island MGP 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Clear Container Glass	15.9%	15.9%	2,928
#1 PET Bottles	11.2%	27.1%	2,060
#2 HDPE Bottles	8.0%	35.1%	1,472
Green Container Glass	6.7%	41.8%	1,224
Steel/Tin Food Cans	6.3%	48.1%	1,151
Mixed Cullet	5.9%	54.0%	1,084
Bulk/Rigid Plastic	4.4%	58.4%	815
Rigid Plastic Containers/Packaging	4.0%	62.4%	728
Brown Container Glass	3.3%	65.7%	611
Mixed Low Grade Paper	3.1%	68.8%	577
<b>Subtotal</b>	<b>68.8%</b>		<b>12,648</b>
All other materials	31.2%		5,730
<b>Total</b>	<b>100.0%</b>		<b>18,379</b>

**Exhibit 22a Bronx Paper 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Plain OCC/Kraft Paper	41.4%	41.4%	11,890
Mixed Low Grade Paper	26.3%	67.7%	7,553
Newspaper	16.2%	83.9%	4,660
High Grade Paper	7.2%	91.1%	2,058
Film Plastic: Garbage Bags	1.3%	92.4%	374
Paper: Compostable/Soiled/Waxed OCC/Kraft	1.2%	93.6%	351
Other Nonrecyclable Paper	1.0%	94.6%	279
Other C&D Debris Not Elsewhere Classified	0.7%	95.3%	214
Food	0.5%	95.8%	144
Fines	0.5%	96.3%	141
<b>Subtotal</b>	<b>96.3%</b>		<b>27,664</b>
All other materials	3.7%		1,064
<b>Total</b>	<b>100.0%</b>		<b>28,728</b>

**Exhibit 22b Brooklyn Paper 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Mixed Low Grade Paper	32.8%	32.8%	27,782
Plain OCC/Kraft Paper	30.3%	63.1%	25,645
Newspaper	23.9%	87.0%	20,237
High Grade Paper	6.4%	93.3%	5,387
Film Plastic: Garbage Bags	1.0%	94.4%	873
Other Nonrecyclable Paper	1.0%	95.3%	807
Food	0.9%	96.2%	723
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.4%	96.6%	356
Film Plastic: All Other Film	0.3%	96.9%	250
Paper Beverage Cartons/Aseptic Boxes	0.3%	97.1%	216
<b>Subtotal</b>	<b>97.1%</b>		<b>82,279</b>
All other materials	2.9%		2,426
<b>Total</b>	<b>100.0%</b>		<b>84,705</b>

**Exhibit 22c Manhattan Paper 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Mixed Low Grade Paper	38.5%	38.5%	26,302
Plain OCC/Kraft Paper	29.7%	68.3%	20,313
Newspaper	17.6%	85.9%	12,043
High Grade Paper	8.5%	94.4%	5,817
Film Plastic: Garbage Bags	1.2%	95.7%	848
Other Nonrecyclable Paper	0.8%	96.5%	557
Food	0.5%	97.0%	363
Film Plastic: All Other Film	0.3%	97.3%	213
Other Plastics	0.3%	97.6%	212
Textiles: Non-Clothing	0.2%	97.9%	160
<b>Subtotal</b>	<b>97.9%</b>		<b>66,829</b>
All other materials	2.1%		1,459
<b>Total</b>	<b>100.0%</b>		<b>68,288</b>

**Exhibit 22d Queens Paper 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Plain OCC/Kraft Paper	39.2%	39.2%	31,049
Mixed Low Grade Paper	27.5%	66.7%	21,781
Newspaper	20.3%	87.0%	16,041
High Grade Paper	3.6%	90.6%	2,865
Film Plastic: Garbage Bags	1.0%	91.6%	799
Other Nonrecyclable Paper	0.9%	92.5%	694
Shoes/Rubber/Leather	0.9%	93.3%	680
Food	0.8%	94.2%	660
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.8%	95.0%	633
Paper Beverage Cartons/Aseptic Boxes	0.6%	95.6%	486
<b>Subtotal</b>	<b>95.6%</b>		<b>75,689</b>
All other materials	4.4%		3,492
<b>Total</b>	<b>100.0%</b>		<b>79,181</b>

**Exhibit 22e Staten Island Paper 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Mixed Low Grade Paper	31.4%	31.4%	7,680
Plain OCC/Kraft Paper	30.3%	61.6%	7,410
Newspaper	29.1%	90.7%	7,124
High Grade Paper	3.4%	94.1%	838
Food	1.1%	95.2%	260
Paper: Compostable/Soiled/Waxed OCC/Kraft	0.9%	96.1%	232
Other Nonrecyclable Paper	0.5%	96.7%	134
Film Plastic: Garbage Bags	0.5%	97.2%	119
Paper Beverage Cartons/Aseptic Boxes	0.3%	97.4%	64
Rigid Plastic Containers/Packaging	0.2%	97.7%	56
<b>Subtotal</b>	<b>97.7%</b>		<b>23,918</b>
All other materials	2.3%		571
<b>Total</b>	<b>100.0%</b>		<b>24,489</b>

**Exhibit 23a Bronx Refuse 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	21.3%	21.3%	91,537
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.3%	28.6%	31,155
Mixed Low Grade Paper	7.1%	35.7%	30,423
Non-C&D Wood	5.2%	40.9%	22,400
Disposable Diapers/Sanitary Products	4.6%	45.5%	19,574
Other C&D Debris Not Elsewhere Classified	4.5%	49.9%	19,243
Textiles: Clothing	4.2%	54.1%	17,961
Yard Waste	3.9%	58.0%	16,846
Fines	3.8%	61.9%	16,479
Film Plastic: Garbage Bags	3.2%	65.1%	13,626
<b>Subtotal</b>	<b>65.1%</b>		<b>279,245</b>
All other materials	34.9%		149,936
<b>Total</b>	<b>100.0%</b>		<b>429,181</b>

**Exhibit 23b Brooklyn Refuse 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	21.7%	21.7%	176,863
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.5%	30.2%	69,262
Mixed Low Grade Paper	6.8%	37.0%	55,592
Yard Waste	5.7%	42.7%	46,597
Disposable Diapers/Sanitary Products	4.7%	47.4%	38,403
Other C&D Debris Not Elsewhere Classified	4.1%	51.5%	33,747
Non-C&D Wood	3.9%	55.4%	32,049
Textiles: Clothing	3.5%	59.0%	28,900
Fines	3.4%	62.4%	27,912
Textiles: Non-Clothing	3.3%	65.7%	27,045
<b>Subtotal</b>	<b>65.7%</b>		<b>536,372</b>
All other materials	34.3%		279,924
<b>Total</b>	<b>100.0%</b>		<b>816,295</b>



**Exhibit 23c Manhattan Refuse 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	19.9%	19.9%	86,764
Mixed Low Grade Paper	11.7%	31.6%	51,004
Paper: Compostable/Soiled/Waxed OCC/Kraft	10.8%	42.4%	47,180
Disposable Diapers/Sanitary Products	4.8%	47.2%	20,789
Film Plastic: Garbage Bags	3.7%	50.8%	15,968
Textiles: Clothing	3.5%	54.3%	15,057
Fines	3.3%	57.6%	14,450
Film Plastic: Retail Bags/Sleeves	2.8%	60.4%	12,242
Rigid Plastic Containers/Packaging	2.8%	63.2%	12,146
Textiles: Non-Clothing	2.6%	65.8%	11,408
<b>Subtotal</b>	<b>65.8%</b>		<b>287,009</b>
All other materials	34.2%		149,090
<b>Total</b>	<b>100.0%</b>		<b>436,099</b>

**Exhibit 23d Queens Refuse 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	21.9%	21.9%	157,650
Yard Waste	11.2%	33.1%	80,851
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.6%	41.8%	61,945
Mixed Low Grade Paper	5.9%	47.6%	42,311
Non-C&D Wood	5.0%	52.6%	35,678
Disposable Diapers/Sanitary Products	4.3%	56.9%	30,852
Other C&D Debris Not Elsewhere Classified	3.3%	60.2%	24,057
Fines	2.9%	63.1%	20,725
Textiles: Clothing	2.8%	65.9%	19,947
Treated/Contaminated Wood	2.7%	68.6%	19,762
<b>Subtotal</b>	<b>68.6%</b>		<b>493,778</b>
All other materials	31.4%		225,695
<b>Total</b>	<b>100.0%</b>		<b>719,473</b>

**Exhibit 23e Staten Island Refuse 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	18.4%	18.4%	34,502
Yard Waste	16.6%	35.0%	31,078
Paper: Compostable/Soiled/Waxed OCC/Kraft	9.6%	44.7%	17,999
Mixed Low Grade Paper	6.0%	50.7%	11,218
Non-C&D Wood	4.4%	55.0%	8,197
Disposable Diapers/Sanitary Products	4.2%	59.2%	7,865
Fines	3.3%	62.5%	6,164
Other C&D Debris Not Elsewhere Classified	2.9%	65.5%	5,495
Textiles: Clothing	2.8%	68.2%	5,156
Textiles: Non-Clothing	2.3%	70.5%	4,255
<b>Subtotal</b>	<b>70.5%</b>		<b>131,929</b>
All other materials	29.5%		55,224
<b>Total</b>	<b>100.0%</b>		<b>187,153</b>

**Exhibit 24a Bronx Aggregate 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	19.0%	19.0%	92,442
Mixed Low Grade Paper	7.9%	26.9%	38,550
Paper: Compostable/Soiled/Waxed OCC/Kraft	6.5%	33.4%	31,634
Non-C&D Wood	4.6%	38.1%	22,457
Disposable Diapers/Sanitary Products	4.0%	42.1%	19,672
Other C&D Debris Not Elsewhere Classified	4.0%	46.1%	19,468
Plain OCC/Kraft Paper	3.7%	49.9%	18,184
Textiles: Clothing	3.7%	53.5%	17,984
Yard Waste	3.5%	57.0%	16,848
Fines	3.4%	60.5%	16,723
<b>Subtotal</b>	<b>60.5%</b>		<b>293,960</b>
All other materials	39.5%		192,310
<b>Total</b>	<b>100.0%</b>		<b>486,270</b>

**Exhibit 24b Brooklyn Aggregate 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	18.6%	18.6%	179,097
Mixed Low Grade Paper	8.9%	27.5%	85,145
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.3%	34.8%	69,930
Yard Waste	4.9%	39.6%	46,635
Disposable Diapers/Sanitary Products	4.0%	43.6%	38,468
Plain OCC/Kraft Paper	3.8%	47.5%	36,955
Other C&D Debris Not Elsewhere Classified	3.5%	51.0%	33,870
Newspaper	3.4%	54.3%	32,222
Non-C&D Wood	3.3%	57.7%	32,193
Textiles: Clothing	3.0%	60.7%	29,134
<b>Subtotal</b>	<b>60.7%</b>		<b>583,648</b>
All other materials	39.3%		377,420
<b>Total</b>	<b>100.0%</b>		<b>961,069</b>

**Exhibit 24c Manhattan Aggregate 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	16.0%	16.0%	87,854
Mixed Low Grade Paper	14.2%	30.3%	77,951
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.7%	38.9%	47,408
Plain OCC/Kraft Paper	5.7%	44.7%	31,446
Newspaper	4.0%	48.7%	21,948
Disposable Diapers/Sanitary Products	3.8%	52.5%	20,809
Film Plastic: Garbage Bags	3.4%	55.9%	18,528
Textiles: Clothing	2.8%	58.6%	15,139
Fines	2.7%	61.3%	14,810
Rigid Plastic Containers/Packaging	2.5%	63.9%	13,934
<b>Subtotal</b>	<b>63.9%</b>		<b>349,827</b>
All other materials	36.1%		197,678
<b>Total</b>	<b>100.0%</b>		<b>547,505</b>

**Exhibit 24d Queens Aggregate 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	18.6%	18.6%	160,242
Yard Waste	9.4%	28.0%	80,989
Mixed Low Grade Paper	7.6%	35.6%	65,594
Paper: Compostable/Soiled/Waxed OCC/Kraft	7.3%	42.9%	62,952
Plain OCC/Kraft Paper	4.5%	47.5%	38,981
Non-C&D Wood	4.2%	51.6%	35,854
Disposable Diapers/Sanitary Products	3.6%	55.2%	31,006
Newspaper	2.9%	58.2%	25,232
Other C&D Debris Not Elsewhere Classified	2.9%	61.1%	24,808
Fines	2.5%	63.5%	21,385
<b>Subtotal</b>	<b>63.5%</b>		<b>547,043</b>
All other materials	36.5%		313,942
<b>Total</b>	<b>100.0%</b>		<b>860,985</b>

**Exhibit 24e Staten Island Aggregate 10 Most Prevalent Materials**

<b>Material</b>	<b>Estimated Percent</b>	<b>Cumulative Percent</b>	<b>Estimated Tons</b>
Food	15.3%	15.3%	35,268
Yard Waste	13.6%	28.9%	31,180
Mixed Low Grade Paper	8.5%	37.4%	19,475
Paper: Compostable/Soiled/Waxed OCC/Kraft	8.0%	45.3%	18,330
Newspaper	4.6%	49.9%	10,638
Plain OCC/Kraft Paper	4.6%	54.5%	10,473
Non-C&D Wood	3.6%	58.1%	8,212
Disposable Diapers/Sanitary Products	3.4%	61.5%	7,905
Fines	2.8%	64.3%	6,337
Other C&D Debris Not Elsewhere Classified	2.4%	66.7%	5,523
<b>Subtotal</b>	<b>66.7%</b>		<b>153,342</b>
All other materials	33.3%		76,678
<b>Total</b>	<b>100.0%</b>		<b>230,021</b>



**Exhibit 25a Bronx Composition of Bottles, Cans and Cartons in MGP Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	<b>0.0%</b>	0.0%	0.0%	<b>1.4%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.9%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>2.6%</b>
#1 PET Clear/Green Bottles	<b>0.9%</b>	0.0%	<b>1.0%</b>	<b>2.3%</b>	<b>0.7%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>2.0%</b>	<b>1.6%</b>	<b>1.2%</b>	0.0%	0.0%	<b>0.0%</b>	<b>10.2%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>1.2%</b>
#2 HDPE Natural Bottles	<b>0.1%</b>	0.0%	<b>0.9%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>2.8%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>5.7%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.5%</b>	<b>2.9%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>3.9%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.2%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.3%</b>	<b>1.3%</b>	0.0%	<b>2.1%</b>	0.0%	<b>0.2%</b>	<b>1.7%</b>	<b>3.5%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>4.9%</b>	<b>0.4%</b>	0.0%	0.0%	<b>0.2%</b>	<b>14.7%</b>
Green Container Glass	<b>0.2%</b>	<b>1.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>2.3%</b>	<b>0.2%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>4.0%</b>
Brown Container Glass	<b>0.2%</b>	<b>2.3%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	<b>0.2%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>3.4%</b>
Other Color Container Glass	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Aluminum Cans	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>0.6%</b>	<b>0.2%</b>	<b>6.4%</b>	<b>0.2%</b>	0.0%	0.0%	<b>0.0%</b>	<b>7.7%</b>
<b>Total</b>	<b>1.8%</b>	<b>4.9%</b>	<b>2.1%</b>	<b>7.5%</b>	<b>0.8%</b>	<b>0.6%</b>	<b>4.3%</b>	<b>4.3%</b>	<b>4.8%</b>	<b>2.8%</b>	<b>14.9%</b>	<b>6.3%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>55.4%</b>

**Exhibit 25a Bronx Composition of Bottles, Cans and Cartons in MGP Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	2	0	0	389	0	1	0	0	252	83	5	16	0	0	0	749
#1 PET Clear/Green Bottles	245	0	270	652	207	37	11	62	38	571	461	327	0	0	11	2,892
#1 PET Other Color Bottles	9	0	41	141	1	3	1	5	6	7	35	80	9	0	3	342
#2 HDPE Natural Bottles	15	0	265	106	0	0	0	1	804	25	204	203	0	0	3	1,625
#2 HDPE Pigmented Bottles	0	0	0	13	1	1	0	1	70	27	130	832	4	30	5	1,113
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	6	2	0	0	0	8
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4
#5 PP Rigid Bottles	0	0	0	0	0	0	0	0	6	0	65	17	0	0	0	88
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	14	10	0	0	0	0	5	6	5	0	0	4	43
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	20	0	1	0	0	0	4	0	0	0	0	0	25
Unlabeled Plastic Bottles	0	0	0	0	0	0	0	0	0	0	14	31	4	0	4	53
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Clear Container Glass	84	370	0	589	0	44	490	1,002	9	14	1,380	120	0	0	61	4,164
Green Container Glass	62	323	0	3	0	8	647	68	0	0	19	5	0	0	7	1,142
Brown Container Glass	48	641	0	94	0	0	63	41	0	0	40	26	0	0	0	953
Other Color Container Glass	0	4	8	2	0	0	21	34	0	0	0	8	0	0	0	77
Aluminum Cans	45	32	2	53	1	16	0	1	1	5	29	57	0	0	0	243
Steel/Tin Food Cans	0	12	0	36	0	48	0	0	163	63	1,817	48	0	3	1	2,192
<b>Total</b>	<b>510</b>	<b>1,382</b>	<b>585</b>	<b>2,117</b>	<b>220</b>	<b>159</b>	<b>1,233</b>	<b>1,214</b>	<b>1,348</b>	<b>804</b>	<b>4,215</b>	<b>1,776</b>	<b>17</b>	<b>33</b>	<b>99</b>	<b>15,712</b>

**Exhibit 25a Breakdown of Container Type for each Product Type (MGP - Bronx) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	<b>0.4%</b>	0.0%	0.0%	<b>18.4%</b>	0.0%	<b>0.9%</b>	0.0%	0.0%	<b>18.7%</b>	<b>10.4%</b>	<b>0.1%</b>	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>4.8%</b>
#1 PET Clear/Green Bottles	<b>48.0%</b>	0.0%	<b>46.2%</b>	<b>30.8%</b>	<b>93.8%</b>	<b>23.4%</b>	<b>0.9%</b>	<b>5.1%</b>	<b>2.8%</b>	<b>70.9%</b>	<b>10.9%</b>	<b>18.4%</b>	0.0%	0.0%	<b>11.3%</b>	<b>18.4%</b>
#1 PET Other Color Bottles	<b>1.8%</b>	0.0%	<b>7.0%</b>	<b>6.7%</b>	<b>0.6%</b>	<b>2.1%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.9%</b>	<b>0.8%</b>	<b>4.5%</b>	<b>51.6%</b>	0.0%	<b>2.8%</b>	<b>2.2%</b>
#2 HDPE Natural Bottles	<b>2.9%</b>	0.0%	<b>45.3%</b>	<b>5.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>59.7%</b>	<b>3.1%</b>	<b>4.8%</b>	<b>11.4%</b>	<b>1.6%</b>	0.0%	<b>3.1%</b>	<b>10.3%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>0.5%</b>	<b>0.4%</b>	0.0%	<b>0.0%</b>	<b>5.2%</b>	<b>3.3%</b>	<b>3.1%</b>	<b>46.9%</b>	<b>24.2%</b>	<b>91.5%</b>	<b>5.1%</b>	<b>7.1%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	<b>1.5%</b>	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>4.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.1%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>1.7%</b>	<b>22.6%</b>	0.0%	<b>3.9%</b>	<b>0.3%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>16.5%</b>	<b>26.8%</b>	0.0%	<b>27.8%</b>	0.0%	<b>27.5%</b>	<b>39.7%</b>	<b>82.5%</b>	<b>0.7%</b>	<b>1.8%</b>	<b>32.7%</b>	<b>6.8%</b>	0.0%	0.0%	<b>61.4%</b>	<b>26.5%</b>
Green Container Glass	<b>12.1%</b>	<b>23.4%</b>	0.0%	<b>0.1%</b>	0.0%	<b>4.9%</b>	<b>52.5%</b>	<b>5.6%</b>	0.0%	0.0%	<b>0.5%</b>	<b>0.3%</b>	0.0%	0.0%	<b>7.3%</b>	<b>7.3%</b>
Brown Container Glass	<b>9.5%</b>	<b>46.4%</b>	0.0%	<b>4.4%</b>	0.0%	0.0%	<b>5.1%</b>	<b>3.4%</b>	0.0%	0.0%	<b>1.0%</b>	<b>1.4%</b>	0.0%	0.0%	0.0%	<b>6.1%</b>
Other Color Container Glass	0.0%	<b>0.3%</b>	<b>1.3%</b>	<b>0.1%</b>	0.0%	0.0%	<b>1.7%</b>	<b>2.8%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
Aluminum Cans	<b>8.9%</b>	<b>2.3%</b>	<b>0.3%</b>	<b>2.5%</b>	<b>0.6%</b>	<b>10.0%</b>	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>3.2%</b>	0.0%	0.0%	0.0%	<b>1.5%</b>
Steel/Tin Food Cans	0.0%	<b>0.9%</b>	0.0%	<b>1.7%</b>	0.0%	<b>30.3%</b>	0.0%	0.0%	<b>12.1%</b>	<b>7.8%</b>	<b>43.1%</b>	<b>2.7%</b>	0.0%	<b>8.5%</b>	<b>1.1%</b>	<b>14.0%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 25a Breakdown of Product Type for each Container Type (MGP - Bronx) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	<b>0.3%</b>	0.0%	0.0%	<b>52.0%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>33.6%</b>	<b>11.2%</b>	<b>0.7%</b>	<b>2.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>8.5%</b>	0.0%	<b>9.3%</b>	<b>22.6%</b>	<b>7.1%</b>	<b>1.3%</b>	<b>0.4%</b>	<b>2.1%</b>	<b>1.3%</b>	<b>19.7%</b>	<b>15.9%</b>	<b>11.3%</b>	0.0%	0.0%	<b>0.4%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>2.7%</b>	0.0%	<b>11.9%</b>	<b>41.3%</b>	<b>0.4%</b>	<b>1.0%</b>	<b>0.2%</b>	<b>1.5%</b>	<b>1.7%</b>	<b>2.1%</b>	<b>10.2%</b>	<b>23.4%</b>	<b>2.6%</b>	0.0%	<b>0.8%</b>	<b>100.0%</b>
#2 HDPE Natural Bottles	<b>0.9%</b>	0.0%	<b>16.3%</b>	<b>6.5%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>49.5%</b>	<b>1.5%</b>	<b>12.5%</b>	<b>12.5%</b>	<b>0.0%</b>	0.0%	<b>0.2%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>1.2%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	<b>0.1%</b>	<b>6.3%</b>	<b>2.4%</b>	<b>11.7%</b>	<b>74.8%</b>	<b>0.4%</b>	<b>2.7%</b>	<b>0.5%</b>	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>77.8%</b>	<b>22.2%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>7.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>84.6%</b>	<b>7.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.4%</b>	0.0%	<b>74.5%</b>	<b>19.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>31.8%</b>	<b>22.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>12.3%</b>	<b>13.6%</b>	<b>11.0%</b>	0.0%	0.0%	<b>8.4%</b>	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>83.0%</b>	0.0%	<b>2.3%</b>	0.0%	0.0%	0.0%	<b>14.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>26.8%</b>	<b>57.9%</b>	<b>7.4%</b>	0.0%	<b>7.4%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	<b>2.0%</b>	<b>8.9%</b>	0.0%	<b>14.2%</b>	0.0%	<b>1.0%</b>	<b>11.8%</b>	<b>24.1%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>33.2%</b>	<b>2.9%</b>	0.0%	0.0%	<b>1.5%</b>	<b>100.0%</b>
Green Container Glass	<b>5.4%</b>	<b>28.3%</b>	0.0%	<b>0.2%</b>	0.0%	<b>0.7%</b>	<b>56.7%</b>	<b>6.0%</b>	0.0%	0.0%	<b>1.7%</b>	<b>0.4%</b>	0.0%	0.0%	<b>0.6%</b>	<b>100.0%</b>
Brown Container Glass	<b>5.1%</b>	<b>67.2%</b>	0.0%	<b>9.8%</b>	0.0%	0.0%	<b>6.7%</b>	<b>4.3%</b>	0.0%	0.0%	<b>4.2%</b>	<b>2.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	0.0%	<b>5.5%</b>	<b>9.9%</b>	<b>2.6%</b>	0.0%	0.0%	<b>27.0%</b>	<b>44.9%</b>	0.0%	0.0%	0.0%	<b>10.2%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Aluminum Cans	<b>18.6%</b>	<b>13.1%</b>	<b>0.8%</b>	<b>21.9%</b>	<b>0.6%</b>	<b>6.6%</b>	0.0%	<b>0.3%</b>	<b>0.3%</b>	<b>2.2%</b>	<b>12.1%</b>	<b>23.4%</b>	0.0%	0.0%	<b>0.1%</b>	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	<b>0.5%</b>	0.0%	<b>1.7%</b>	0.0%	<b>2.2%</b>	0.0%	0.0%	<b>7.4%</b>	<b>2.9%</b>	<b>82.9%</b>	<b>2.2%</b>	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>100.0%</b>
<b>Total</b>	<b>3.2%</b>	<b>8.8%</b>	<b>3.7%</b>	<b>13.5%</b>	<b>1.4%</b>	<b>1.0%</b>	<b>7.8%</b>	<b>7.7%</b>	<b>8.6%</b>	<b>5.1%</b>	<b>26.8%</b>	<b>11.3%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.6%</b>	<b>100.0%</b>

**Exhibit 25b Brooklyn Composition of Bottles, Cans and Cartons in MGP Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.1%</b>	<b>0.9%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>2.6%</b>
#1 PET Clear/Green Bottles	<b>0.7%</b>	0.0%	<b>0.7%</b>	<b>1.8%</b>	<b>0.7%</b>	<b>0.2%</b>	0.0%	<b>0.2%</b>	<b>0.1%</b>	<b>1.7%</b>	<b>1.2%</b>	<b>1.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>8.2%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.8%</b>
#2 HDPE Natural Bottles	0.0%	<b>0.0%</b>	<b>0.7%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>2.2%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.6%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>4.3%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.5%</b>	<b>2.7%</b>	0.0%	0.0%	<b>0.0%</b>	<b>3.6%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.3%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>1.0%</b>	<b>0.8%</b>	<b>0.1%</b>	<b>2.1%</b>	0.0%	<b>0.4%</b>	<b>2.0%</b>	<b>3.9%</b>	<b>0.1%</b>	<b>1.1%</b>	<b>6.1%</b>	<b>0.4%</b>	0.0%	0.0%	<b>0.3%</b>	<b>18.3%</b>
Green Container Glass	<b>0.7%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>5.3%</b>	<b>0.2%</b>	0.0%	0.0%	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>7.2%</b>
Brown Container Glass	<b>0.2%</b>	<b>2.5%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	<b>0.3%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>3.7%</b>
Other Color Container Glass	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Aluminum Cans	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.4%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.1%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.6%</b>	<b>0.1%</b>	<b>4.8%</b>	<b>0.3%</b>	0.0%	0.0%	<b>0.0%</b>	<b>6.0%</b>
<b>Total</b>	<b>2.7%</b>	<b>4.4%</b>	<b>1.4%</b>	<b>6.1%</b>	<b>0.7%</b>	<b>0.9%</b>	<b>7.7%</b>	<b>4.9%</b>	<b>4.1%</b>	<b>3.6%</b>	<b>14.3%</b>	<b>5.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>57.1%</b>

**Exhibit 25b Brooklyn Composition of Bottles, Cans and Cartons in MGP Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>590</b>	<b>1</b>	<b>39</b>	0	<b>42</b>	<b>534</b>	<b>210</b>	<b>87</b>	<b>14</b>	0	0	<b>22</b>	<b>1,538</b>
#1 PET Clear/Green Bottles	<b>402</b>	0	<b>408</b>	<b>1,057</b>	<b>397</b>	<b>129</b>	0	<b>101</b>	<b>65</b>	<b>1,018</b>	<b>731</b>	<b>584</b>	0	0	<b>61</b>	<b>4,953</b>
#1 PET Other Color Bottles	<b>15</b>	<b>9</b>	<b>1</b>	<b>230</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>5</b>	<b>8</b>	<b>8</b>	<b>74</b>	<b>133</b>	0	0	<b>1</b>	<b>490</b>
#2 HDPE Natural Bottles	0	<b>15</b>	<b>398</b>	<b>122</b>	0	0	0	<b>26</b>	<b>1,333</b>	<b>60</b>	<b>258</b>	<b>343</b>	0	<b>4</b>	<b>12</b>	<b>2,570</b>
#2 HDPE Pigmented Bottles	0	0	0	<b>6</b>	0	<b>2</b>	0	<b>1</b>	<b>118</b>	<b>107</b>	<b>309</b>	<b>1,600</b>	0	0	<b>2</b>	<b>2,146</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	<b>1</b>	<b>5</b>	<b>15</b>	0	0	<b>5</b>	<b>27</b>
#4 LDPE/LLDPE Bottles	0	0	0	<b>1</b>	0	0	0	0	0	0	<b>4</b>	<b>4</b>	0	0	0	<b>9</b>
#5 PP Rigid Bottles	0	0	0	<b>10</b>	0	0	0	0	<b>9</b>	0	<b>177</b>	<b>43</b>	0	0	<b>12</b>	<b>251</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	<b>4</b>	<b>5</b>	0	0	0	<b>9</b>
#7 Other Bottles	0	0	0	<b>13</b>	0	0	0	0	<b>1</b>	<b>1</b>	<b>40</b>	<b>14</b>	0	0	<b>1</b>	<b>69</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	<b>84</b>	0	0	0	0	0	<b>2</b>	0	0	0	0	0	<b>86</b>
Unlabeled Plastic Bottles	0	0	<b>1</b>	0	0	0	0	0	0	0	<b>23</b>	<b>42</b>	0	0	<b>15</b>	<b>80</b>
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	<b>6</b>	0	0	0	0	<b>1</b>	<b>1</b>	<b>2</b>	<b>0</b>	0	0	0	<b>9</b>
Clear Container Glass	<b>578</b>	<b>488</b>	<b>33</b>	<b>1,263</b>	0	<b>237</b>	<b>1,226</b>	<b>2,363</b>	<b>32</b>	<b>650</b>	<b>3,684</b>	<b>225</b>	0	0	<b>207</b>	<b>10,988</b>
Green Container Glass	<b>412</b>	<b>528</b>	<b>6</b>	<b>4</b>	0	0	<b>3,165</b>	<b>133</b>	0	0	<b>93</b>	<b>5</b>	0	0	0	<b>4,346</b>
Brown Container Glass	<b>111</b>	<b>1,515</b>	0	<b>159</b>	0	0	<b>160</b>	<b>123</b>	0	<b>13</b>	<b>98</b>	<b>58</b>	0	0	0	<b>2,236</b>
Other Color Container Glass	<b>14</b>	0	0	0	0	0	<b>44</b>	<b>126</b>	0	0	0	<b>11</b>	0	0	0	<b>194</b>
Aluminum Cans	<b>75</b>	<b>64</b>	<b>2</b>	<b>98</b>	0	<b>33</b>	0	0	<b>6</b>	<b>15</b>	<b>140</b>	<b>236</b>	0	0	<b>4</b>	<b>673</b>
Steel/Tin Food Cans	0	0	0	<b>26</b>	<b>8</b>	<b>81</b>	0	0	<b>373</b>	<b>74</b>	<b>2,853</b>	<b>207</b>	0	0	<b>6</b>	<b>3,630</b>
<b>Total</b>	<b>1,608</b>	<b>2,618</b>	<b>850</b>	<b>3,670</b>	<b>408</b>	<b>525</b>	<b>4,596</b>	<b>2,920</b>	<b>2,479</b>	<b>2,160</b>	<b>8,583</b>	<b>3,538</b>	<b>0</b>	<b>4</b>	<b>347</b>	<b>34,304</b>

**Exhibit 25b Breakdown of Container Type for each Product Type (MGP - Brooklyn) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	16.1%	0.1%	7.4%	0.0%	1.4%	21.5%	9.7%	1.0%	0.4%	0.0%	0.0%	6.4%	4.5%
#1 PET Clear/Green Bottles	25.0%	0.0%	48.0%	28.8%	97.4%	24.6%	0.0%	3.5%	2.6%	47.1%	8.5%	16.5%	0.0%	0.0%	17.5%	14.4%
#1 PET Other Color Bottles	0.9%	0.4%	0.1%	6.3%	0.4%	0.6%	0.0%	0.2%	0.3%	0.4%	0.9%	3.8%	0.0%	0.0%	0.2%	1.4%
#2 HDPE Natural Bottles	0.0%	0.6%	46.9%	3.3%	0.0%	0.0%	0.0%	0.9%	53.8%	2.8%	3.0%	9.7%	0.0%	100.0%	3.4%	7.5%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.2%	0.0%	0.3%	0.0%	0.0%	4.8%	5.0%	3.6%	45.2%	0.0%	0.0%	0.7%	6.3%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.4%	0.0%	0.0%	1.5%	0.1%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	2.1%	1.2%	0.0%	0.0%	3.4%	0.7%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.4%	0.0%	0.0%	0.3%	0.2%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
Unlabeled Plastic Bottles	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	1.2%	0.0%	0.0%	4.2%	0.2%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	36.0%	18.7%	3.9%	34.4%	0.0%	45.3%	26.7%	80.9%	1.3%	30.1%	42.9%	6.3%	0.0%	0.0%	59.7%	32.0%
Green Container Glass	25.6%	20.1%	0.7%	0.1%	0.0%	0.0%	68.9%	4.6%	0.0%	0.0%	1.1%	0.1%	0.0%	0.0%	0.0%	12.7%
Brown Container Glass	6.9%	57.9%	0.0%	4.3%	0.0%	0.0%	3.5%	4.2%	0.0%	0.6%	1.1%	1.7%	0.0%	0.0%	0.0%	6.5%
Other Color Container Glass	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	4.3%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.6%
Aluminum Cans	4.7%	2.4%	0.3%	2.7%	0.0%	6.4%	0.0%	0.0%	0.2%	0.7%	1.6%	6.7%	0.0%	0.0%	1.0%	2.0%
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.7%	2.0%	15.5%	0.0%	0.0%	15.1%	3.4%	33.2%	5.9%	0.0%	0.0%	1.7%	10.6%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 25b Breakdown of Product Type for each Container Type (MGP - Brooklyn) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	38.4%	0.0%	2.5%	0.0%	2.7%	34.7%	13.7%	5.7%	0.9%	0.0%	0.0%	1.4%	100.0%
#1 PET Clear/Green Bottles	8.1%	0.0%	8.2%	21.3%	8.0%	2.6%	0.0%	2.0%	1.3%	20.5%	14.8%	11.8%	0.0%	0.0%	1.2%	100.0%
#1 PET Other Color Bottles	3.1%	1.9%	0.2%	47.1%	0.4%	0.6%	0.1%	1.0%	1.6%	1.7%	15.2%	27.1%	0.0%	0.0%	0.1%	100.0%
#2 HDPE Natural Bottles	0.0%	0.6%	15.5%	4.7%	0.0%	0.0%	0.0%	1.0%	51.9%	2.3%	10.1%	13.4%	0.0%	0.1%	0.5%	100.0%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.3%	0.0%	0.1%	0.0%	0.1%	5.5%	5.0%	14.4%	74.6%	0.0%	0.0%	0.1%	100.0%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.3%	19.6%	56.5%	0.0%	0.0%	19.6%	100.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.8%	43.8%	0.0%	0.0%	0.0%	100.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	4.0%	0.0%	0.0%	0.0%	0.0%	3.5%	0.0%	70.6%	17.2%	0.0%	0.0%	4.7%	100.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.0%	60.0%	0.0%	0.0%	0.0%	100.0%
#7 Other Bottles	0.0%	0.0%	0.0%	18.6%	0.0%	0.0%	0.0%	0.0%	0.8%	0.8%	57.6%	20.3%	0.0%	0.0%	1.7%	100.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	98.0%	0.0%	0.0%	0.0%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	29.2%	51.8%	0.0%	0.0%	18.2%	100.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	68.8%	0.0%	0.0%	0.0%	0.0%	6.2%	6.2%	18.7%	0.0%	0.0%	0.0%	0.0%	100.0%
Clear Container Glass	5.3%	4.4%	0.3%	11.5%	0.0%	2.2%	11.2%	21.5%	0.3%	5.9%	33.5%	2.0%	0.0%	0.0%	1.9%	100.0%
Green Container Glass	9.5%	12.1%	0.1%	3.1%	0.0%	0.0%	72.8%	3.1%	0.0%	0.0%	2.1%	0.1%	0.0%	0.0%	0.0%	100.0%
Brown Container Glass	4.9%	67.7%	0.0%	7.1%	0.0%	0.0%	7.1%	5.5%	0.0%	0.6%	4.4%	2.6%	0.0%	0.0%	0.0%	100.0%
Other Color Container Glass	7.2%	0.0%	0.0%	0.0%	0.0%	0.0%	22.6%	64.8%	0.0%	0.0%	0.0%	5.4%	0.0%	0.0%	0.0%	100.0%
Aluminum Cans	11.2%	9.5%	0.3%	14.5%	0.0%	5.0%	0.0%	0.0%	0.9%	2.3%	20.8%	35.0%	0.0%	0.0%	0.5%	100.0%
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.7%	0.2%	2.2%	0.0%	0.0%	10.3%	2.0%	78.6%	5.7%	0.0%	0.0%	0.2%	100.0%
<b>Total</b>	<b>4.7%</b>	<b>7.6%</b>	<b>2.5%</b>	<b>10.7%</b>	<b>1.2%</b>	<b>1.5%</b>	<b>13.4%</b>	<b>8.5%</b>	<b>7.2%</b>	<b>6.3%</b>	<b>25.0%</b>	<b>10.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.0%</b>	<b>100.0%</b>

**Exhibit 25c Manhattan Composition of Bottles, Cans and Cartons in MGP Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>1.3%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>2.0%</b>
#1 PET Clear/Green Bottles	<b>0.4%</b>	0.0%	<b>0.8%</b>	<b>1.0%</b>	<b>0.6%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>1.5%</b>	<b>0.9%</b>	<b>0.7%</b>	0.0%	0.0%	<b>0.0%</b>	<b>6.3%</b>
#1 PET Other Color Bottles	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.7%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.6%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>1.4%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.3%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>2.8%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.2%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>1.8%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.4%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
BioPlastic Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.7%</b>	<b>0.5%</b>	0.0%	<b>1.3%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>2.3%</b>	<b>1.6%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>3.4%</b>	<b>0.4%</b>	0.0%	0.0%	<b>0.1%</b>	<b>10.8%</b>
Green Container Glass	<b>0.9%</b>	<b>0.8%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>9.6%</b>	<b>0.2%</b>	0.0%	0.0%	<b>0.4%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>12.1%</b>
Brown Container Glass	<b>0.1%</b>	<b>1.5%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.6%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>2.6%</b>
Other Color Container Glass	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
Aluminum Cans	<b>0.2%</b>	<b>0.1%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.3%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.0%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>3.7%</b>	<b>0.3%</b>	0.0%	0.0%	<b>0.0%</b>	<b>4.3%</b>
<b>Total</b>	<b>2.4%</b>	<b>2.9%</b>	<b>1.5%</b>	<b>3.1%</b>	<b>0.7%</b>	<b>0.7%</b>	<b>12.5%</b>	<b>2.0%</b>	<b>3.3%</b>	<b>2.1%</b>	<b>9.5%</b>	<b>4.4%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>45.5%</b>

**Exhibit 25c Manhattan Composition of Bottles, Cans and Cartons in MGP Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>123</b>	<b>1</b>	<b>28</b>	<b>1</b>	0	<b>581</b>	<b>95</b>	<b>52</b>	<b>2</b>	0	0	0	<b>881</b>
#1 PET Clear/Green Bottles	<b>174</b>	0	<b>335</b>	<b>422</b>	<b>274</b>	<b>86</b>	<b>2</b>	<b>32</b>	<b>33</b>	<b>648</b>	<b>379</b>	<b>314</b>	0	0	<b>8</b>	<b>2,707</b>
#1 PET Other Color Bottles	<b>36</b>	0	<b>14</b>	<b>73</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>18</b>	<b>8</b>	<b>14</b>	<b>120</b>	0	0	<b>0</b>	<b>290</b>
#2 HDPE Natural Bottles	0	0	<b>270</b>	<b>65</b>	0	<b>2</b>	0	0	<b>616</b>	<b>38</b>	<b>65</b>	<b>139</b>	0	<b>5</b>	<b>4</b>	<b>1,204</b>
#2 HDPE Pigmented Bottles	0	0	0	<b>1</b>	<b>3</b>	<b>1</b>	0	0	<b>85</b>	<b>5</b>	<b>105</b>	<b>797</b>	<b>24</b>	0	<b>2</b>	<b>1,023</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	<b>4</b>	<b>20</b>	0	0	<b>1</b>	<b>24</b>
#4 LDPE/LLDPE Bottles	0	0	0	<b>0</b>	0	0	0	0	0	0	<b>12</b>	<b>1</b>	0	0	0	<b>13</b>
#5 PP Rigid Bottles	0	0	0	0	0	<b>0</b>	0	0	<b>5</b>	0	<b>54</b>	<b>9</b>	0	0	<b>4</b>	<b>73</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	<b>5</b>	0	<b>1</b>	0	0	0	<b>2</b>	<b>7</b>	<b>4</b>	0	0	0	<b>19</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	<b>30</b>	0	<b>0</b>	0	0	0	0	<b>2</b>	<b>0</b>	0	0	0	<b>33</b>
Unlabeled Plastic Bottles	0	0	0	0	0	<b>0</b>	0	0	0	0	<b>10</b>	<b>38</b>	0	0	<b>5</b>	<b>53</b>
BioPlastic Bottles	0	0	<b>0</b>	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>
Film Plastic: Food/Drink Pouches	0	0	0	<b>2</b>	0	0	0	0	0	0	0	0	0	0	0	<b>2</b>
Clear Container Glass	<b>287</b>	<b>203</b>	0	<b>547</b>	<b>7</b>	<b>167</b>	<b>981</b>	<b>706</b>	<b>40</b>	<b>46</b>	<b>1,460</b>	<b>154</b>	0	0	<b>40</b>	<b>4,637</b>
Green Container Glass	<b>396</b>	<b>357</b>	<b>28</b>	<b>11</b>	0	0	<b>4,124</b>	<b>70</b>	0	0	<b>168</b>	<b>49</b>	0	0	0	<b>5,205</b>
Brown Container Glass	<b>41</b>	<b>668</b>	0	<b>22</b>	0	<b>6</b>	<b>246</b>	<b>42</b>	0	<b>11</b>	<b>45</b>	<b>22</b>	0	0	0	<b>1,102</b>
Other Color Container Glass	<b>5</b>	<b>8</b>	0	0	0	0	<b>37</b>	0	0	0	0	<b>4</b>	0	0	<b>3</b>	<b>57</b>
Aluminum Cans	<b>94</b>	<b>25</b>	0	<b>37</b>	<b>0</b>	<b>12</b>	0	<b>15</b>	0	<b>12</b>	<b>100</b>	<b>131</b>	0	0	<b>2</b>	<b>428</b>
Steel/Tin Food Cans	0	<b>6</b>	0	<b>16</b>	<b>1</b>	<b>10</b>	0	0	<b>48</b>	<b>50</b>	<b>1,598</b>	<b>109</b>	0	0	<b>10</b>	<b>1,849</b>
<b>Total</b>	<b>1,033</b>	<b>1,268</b>	<b>647</b>	<b>1,354</b>	<b>286</b>	<b>315</b>	<b>5,393</b>	<b>870</b>	<b>1,425</b>	<b>916</b>	<b>4,076</b>	<b>1,911</b>	<b>24</b>	<b>5</b>	<b>78</b>	<b>19,602</b>

**Exhibit 25c Breakdown of Container Type for each Product Type (MGP - Manhattan) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	9.1%	0.3%	8.7%	0.0%	0.0%	40.8%	10.4%	1.3%	0.1%	0.0%	0.0%	0.0%	4.5%
#1 PET Clear/Green Bottles	16.9%	0.0%	51.7%	31.2%	95.7%	27.3%	0.0%	3.6%	2.3%	70.7%	9.3%	16.4%	0.0%	0.0%	10.2%	13.8%
#1 PET Other Color Bottles	3.4%	0.0%	2.2%	5.4%	0.1%	0.4%	0.0%	0.6%	1.2%	0.8%	0.3%	6.3%	0.0%	0.0%	0.5%	1.5%
#2 HDPE Natural Bottles	0.0%	0.0%	41.6%	4.8%	0.0%	0.8%	0.0%	0.0%	43.2%	4.2%	1.6%	7.3%	0.0%	100.0%	4.6%	6.1%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.1%	1.0%	0.3%	0.0%	0.0%	6.0%	0.5%	2.6%	41.7%	100.0%	0.0%	2.0%	5.2%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	1.0%	0.0%	0.0%	1.0%	0.1%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.1%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.4%	0.0%	1.3%	0.5%	0.0%	0.0%	5.6%	0.4%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.4%	0.0%	0.3%	0.0%	0.0%	0.0%	0.3%	0.2%	0.2%	0.0%	0.0%	0.0%	0.1%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	2.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%	2.0%	0.0%	0.0%	6.6%	0.3%
BioPlastic Bottles	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	27.8%	16.0%	0.0%	40.4%	2.5%	52.8%	18.2%	81.2%	2.8%	5.1%	35.8%	8.0%	0.0%	0.0%	50.5%	23.7%
Green Container Glass	38.3%	28.2%	4.4%	0.8%	0.0%	0.0%	76.5%	8.1%	0.0%	0.0%	4.1%	2.6%	0.0%	0.0%	0.0%	26.6%
Brown Container Glass	4.0%	52.7%	0.0%	1.6%	0.0%	1.9%	4.6%	4.9%	0.0%	1.2%	1.1%	1.1%	0.0%	0.0%	0.0%	5.6%
Other Color Container Glass	0.5%	0.6%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	4.1%	0.3%
Aluminum Cans	9.1%	2.0%	0.0%	2.7%	0.1%	3.9%	0.0%	1.7%	0.0%	1.3%	2.4%	6.9%	0.0%	0.0%	2.0%	2.2%
Steel/Tin Food Cans	0.0%	0.5%	0.0%	1.2%	0.3%	3.3%	0.0%	0.0%	3.4%	5.5%	39.2%	5.7%	0.0%	0.0%	12.8%	9.4%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 25c Breakdown of Product Type for each Container Type (MGP - Manhattan) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	13.9%	0.1%	3.1%	0.1%	0.0%	65.9%	10.8%	5.8%	0.2%	0.0%	0.0%	0.0%	100.0%
#1 PET Clear/Green Bottles	6.4%	0.0%	12.4%	15.6%	10.1%	3.2%	0.1%	1.2%	1.2%	23.9%	14.0%	11.6%	0.0%	0.0%	0.3%	100.0%
#1 PET Other Color Bottles	12.3%	0.0%	5.0%	25.2%	0.1%	0.4%	0.4%	1.7%	6.1%	2.6%	4.8%	41.3%	0.0%	0.0%	0.1%	100.0%
#2 HDPE Natural Bottles	0.0%	0.0%	22.4%	5.4%	0.0%	0.2%	0.0%	0.0%	51.1%	3.2%	5.4%	11.5%	0.0%	0.4%	0.3%	100.0%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.1%	0.3%	0.1%	0.0%	0.0%	8.3%	0.5%	10.3%	77.9%	2.3%	0.0%	0.2%	100.0%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.4%	80.3%	0.0%	0.0%	3.3%	100.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.9%	6.1%	0.0%	0.0%	0.0%	100.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	7.1%	0.0%	73.8%	12.6%	0.0%	0.0%	6.0%	100.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	25.5%	0.0%	4.3%	0.0%	0.0%	0.0%	12.8%	38.3%	19.1%	0.0%	0.0%	0.0%	100.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	92.7%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	6.1%	0.0%	0.0%	0.0%	0.0%	100.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	18.8%	70.7%	0.0%	0.0%	9.8%	100.0%
BioPlastic Bottles	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Clear Container Glass	6.2%	4.4%	0.0%	11.8%	0.2%	3.6%	21.2%	15.2%	0.9%	1.0%	31.5%	3.3%	0.0%	0.0%	0.9%	100.0%
Green Container Glass	7.6%	6.9%	0.5%	0.2%	0.0%	0.0%	79.2%	1.4%	0.0%	0.0%	3.2%	0.9%	0.0%	0.0%	0.0%	100.0%
Brown Container Glass	3.7%	60.6%	0.0%	2.0%	0.0%	0.5%	22.3%	3.8%	0.0%	1.0%	4.1%	2.0%	0.0%	0.0%	0.0%	100.0%
Other Color Container Glass	9.0%	13.9%	0.0%	0.0%	0.0%	0.0%	63.9%	0.0%	0.0%	0.0%	0.0%	7.6%	0.0%	0.0%	5.6%	100.0%
Aluminum Cans	22.0%	5.9%	0.0%	8.6%	0.1%	2.9%	0.0%	3.5%	0.0%	2.7%	23.3%	30.7%	0.0%	0.0%	0.4%	100.0%
Steel/Tin Food Cans	0.0%	0.3%	0.0%	0.9%	0.0%	0.6%	0.0%	0.0%	2.6%	2.7%	86.4%	5.9%	0.0%	0.0%	0.5%	100.0%
<b>Total</b>	<b>5.3%</b>	<b>6.5%</b>	<b>3.3%</b>	<b>6.9%</b>	<b>1.5%</b>	<b>1.6%</b>	<b>27.5%</b>	<b>4.4%</b>	<b>7.3%</b>	<b>4.7%</b>	<b>20.8%</b>	<b>9.8%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>100.0%</b>

**Exhibit 25d Queens Composition of Bottles, Cans and Cartons in MGP Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.8%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	1.1%	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>
#1 PET Clear/Green Bottles	<b>0.6%</b>	0.0%	<b>0.9%</b>	<b>1.9%</b>	<b>0.8%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>2.2%</b>	<b>1.5%</b>	<b>1.1%</b>	0.0%	0.0%	<b>0.1%</b>	<b>9.5%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.3%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.8%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>1.2%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>2.9%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>5.5%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.4%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>3.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>4.3%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.4%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.4%</b>	<b>0.6%</b>	<b>0.2%</b>	<b>1.7%</b>	0.0%	<b>0.2%</b>	<b>1.1%</b>	<b>2.8%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>6.2%</b>	<b>0.6%</b>	0.0%	0.0%	<b>0.1%</b>	<b>14.2%</b>
Green Container Glass	<b>0.5%</b>	<b>0.6%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>3.8%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>5.4%</b>
Brown Container Glass	<b>0.1%</b>	<b>1.1%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.3%</b>	<b>0.6%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>2.3%</b>
Other Color Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
Aluminum Cans	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>1.3%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.6%</b>	<b>0.2%</b>	<b>5.5%</b>	<b>0.4%</b>	0.0%	0.0%	<b>0.0%</b>	<b>6.9%</b>
<b>Total</b>	<b>1.9%</b>	<b>2.5%</b>	<b>2.3%</b>	<b>5.6%</b>	<b>0.9%</b>	<b>0.6%</b>	<b>5.4%</b>	<b>4.0%</b>	<b>5.2%</b>	<b>2.9%</b>	<b>15.6%</b>	<b>6.7%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>53.9%</b>

**Exhibit 25d Queens Composition of Bottles, Cans and Cartons in MGP Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>481</b>	0	<b>11</b>	0	<b>31</b>	<b>701</b>	<b>187</b>	<b>28</b>	0	0	0	0	<b>1,439</b>
#1 PET Clear/Green Bottles	<b>392</b>	0	<b>552</b>	<b>1,179</b>	<b>506</b>	<b>145</b>	<b>2</b>	<b>90</b>	<b>72</b>	<b>1,348</b>	<b>918</b>	<b>688</b>	0	0	<b>44</b>	<b>5,937</b>
#1 PET Other Color Bottles	<b>19</b>	<b>1</b>	<b>1</b>	<b>149</b>	<b>3</b>	<b>14</b>	<b>2</b>	<b>10</b>	<b>23</b>	<b>14</b>	<b>65</b>	<b>199</b>	0	0	<b>1</b>	<b>501</b>
#2 HDPE Natural Bottles	0	0	<b>758</b>	<b>241</b>	0	0	0	<b>3</b>	<b>1,778</b>	<b>19</b>	<b>253</b>	<b>373</b>	<b>17</b>	0	<b>8</b>	<b>3,451</b>
#2 HDPE Pigmented Bottles	0	0	0	<b>14</b>	<b>13</b>	<b>3</b>	0	0	<b>276</b>	<b>37</b>	<b>433</b>	<b>1,863</b>	0	<b>11</b>	0	<b>2,650</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	<b>12</b>	<b>10</b>	0	0	0	<b>22</b>
#4 LDPE/LLDPE Bottles	0	0	0	<b>1</b>	0	0	0	0	0	0	<b>16</b>	<b>2</b>	0	0	0	<b>19</b>
#5 PP Rigid Bottles	0	0	<b>7</b>	0	0	0	0	0	<b>5</b>	0	<b>266</b>	<b>27</b>	0	0	0	<b>306</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>	0	0	0	<b>1</b>
#7 Other Bottles	0	0	0	<b>7</b>	<b>1</b>	0	0	0	<b>1</b>	0	<b>49</b>	<b>5</b>	<b>20</b>	0	<b>3</b>	<b>86</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	<b>71</b>	0	0	0	0	0	<b>3</b>	<b>1</b>	0	0	0	0	<b>75</b>
Unlabeled Plastic Bottles	0	0	0	0	0	<b>1</b>	0	0	0	0	<b>24</b>	<b>44</b>	0	0	<b>45</b>	<b>114</b>
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	<b>7</b>	0	0	<b>1</b>	0	0	0	<b>1</b>	0	0	0	0	<b>9</b>
Clear Container Glass	<b>271</b>	<b>400</b>	<b>118</b>	<b>1,050</b>	0	<b>148</b>	<b>697</b>	<b>1,756</b>	<b>21</b>	<b>52</b>	<b>3,869</b>	<b>400</b>	0	0	<b>53</b>	<b>8,833</b>
Green Container Glass	<b>292</b>	<b>381</b>	<b>17</b>	0	0	0	<b>2,397</b>	<b>103</b>	0	<b>12</b>	<b>116</b>	<b>28</b>	0	0	0	<b>3,346</b>
Brown Container Glass	<b>56</b>	<b>655</b>	0	<b>25</b>	0	0	<b>184</b>	<b>372</b>	0	<b>3</b>	<b>91</b>	<b>37</b>	0	0	<b>2</b>	<b>1,426</b>
Other Color Container Glass	<b>10</b>	<b>69</b>	0	0	0	0	<b>73</b>	<b>91</b>	0	0	0	<b>9</b>	0	0	0	<b>251</b>
Aluminum Cans	<b>142</b>	<b>59</b>	<b>9</b>	<b>203</b>	<b>6</b>	<b>39</b>	0	<b>2</b>	<b>21</b>	<b>18</b>	<b>98</b>	<b>220</b>	0	0	0	<b>818</b>
Steel/Tin Food Cans	0	0	0	<b>48</b>	<b>21</b>	<b>30</b>	0	<b>5</b>	<b>372</b>	<b>105</b>	<b>3,457</b>	<b>280</b>	0	0	<b>1</b>	<b>4,320</b>
<b>Total</b>	<b>1,182</b>	<b>1,565</b>	<b>1,462</b>	<b>3,477</b>	<b>551</b>	<b>391</b>	<b>3,356</b>	<b>2,463</b>	<b>3,270</b>	<b>1,798</b>	<b>9,697</b>	<b>4,186</b>	<b>37</b>	<b>11</b>	<b>158</b>	<b>33,603</b>

**Exhibit 25d Breakdown of Container Type for each Product Type (MGP - Queens) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>13.8%</b>	0.0%	<b>2.9%</b>	0.0%	<b>1.3%</b>	<b>21.4%</b>	<b>10.4%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>4.3%</b>
#1 PET Clear/Green Bottles	<b>33.1%</b>	0.0%	<b>37.7%</b>	<b>33.9%</b>	<b>91.9%</b>	<b>37.0%</b>	<b>0.1%</b>	<b>3.7%</b>	<b>2.2%</b>	<b>75.0%</b>	<b>9.5%</b>	<b>16.4%</b>	0.0%	0.0%	<b>27.7%</b>	<b>17.7%</b>
#1 PET Other Color Bottles	<b>1.6%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>4.3%</b>	<b>0.6%</b>	<b>3.5%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.7%</b>	<b>0.8%</b>	<b>0.7%</b>	<b>4.8%</b>	0.0%	0.0%	<b>0.7%</b>	<b>1.5%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>51.8%</b>	<b>6.9%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>54.4%</b>	<b>1.1%</b>	<b>2.6%</b>	<b>8.9%</b>	<b>46.9%</b>	0.0%	<b>5.1%</b>	<b>10.3%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>2.4%</b>	<b>0.9%</b>	0.0%	0.0%	<b>8.4%</b>	<b>2.0%</b>	<b>4.5%</b>	<b>44.5%</b>	0.0%	<b>100.0%</b>	0.0%	<b>7.9%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
#5 PP Rigid Bottles	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	<b>2.7%</b>	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.5%</b>	<b>0.1%</b>	<b>53.1%</b>	0.0%	<b>2.2%</b>	<b>0.3%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>2.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>1.1%</b>	0.0%	0.0%	<b>28.7%</b>	<b>0.3%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>22.9%</b>	<b>25.5%</b>	<b>8.1%</b>	<b>30.2%</b>	0.0%	<b>37.7%</b>	<b>20.8%</b>	<b>71.3%</b>	<b>0.6%</b>	<b>2.9%</b>	<b>39.9%</b>	<b>9.6%</b>	0.0%	0.0%	<b>33.4%</b>	<b>26.3%</b>
Green Container Glass	<b>24.7%</b>	<b>24.4%</b>	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>71.4%</b>	<b>4.2%</b>	0.0%	<b>0.7%</b>	<b>1.2%</b>	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>10.0%</b>
Brown Container Glass	<b>4.7%</b>	<b>41.9%</b>	0.0%	<b>0.7%</b>	0.0%	0.0%	<b>5.5%</b>	<b>15.1%</b>	0.0%	<b>0.2%</b>	<b>0.9%</b>	<b>0.9%</b>	0.0%	0.0%	<b>1.5%</b>	<b>4.2%</b>
Other Color Container Glass	<b>0.8%</b>	<b>4.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.2%</b>	<b>3.7%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.7%</b>
Aluminum Cans	<b>12.1%</b>	<b>3.7%</b>	<b>0.6%</b>	<b>5.8%</b>	<b>1.0%</b>	<b>10.0%</b>	0.0%	<b>0.1%</b>	<b>0.6%</b>	<b>1.0%</b>	<b>1.0%</b>	<b>5.3%</b>	0.0%	0.0%	0.0%	<b>2.4%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>1.4%</b>	<b>3.9%</b>	<b>7.8%</b>	0.0%	<b>0.2%</b>	<b>11.4%</b>	<b>5.8%</b>	<b>35.7%</b>	<b>6.7%</b>	0.0%	0.0%	<b>0.7%</b>	<b>12.9%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 25d Breakdown of Product Type for each Container Type (MGP - Queens) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>33.4%</b>	0.0%	<b>0.8%</b>	0.0%	<b>2.2%</b>	<b>48.7%</b>	<b>13.0%</b>	<b>1.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>6.6%</b>	0.0%	<b>9.3%</b>	<b>19.9%</b>	<b>8.5%</b>	<b>2.4%</b>	<b>0.0%</b>	<b>1.5%</b>	<b>1.2%</b>	<b>22.7%</b>	<b>15.5%</b>	<b>11.6%</b>	0.0%	0.0%	<b>0.7%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>3.8%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>29.7%</b>	<b>0.7%</b>	<b>2.8%</b>	<b>0.3%</b>	<b>1.9%</b>	<b>4.6%</b>	<b>2.8%</b>	<b>13.0%</b>	<b>39.8%</b>	0.0%	0.0%	<b>0.2%</b>	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>22.0%</b>	<b>7.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>51.5%</b>	<b>0.5%</b>	<b>7.3%</b>	<b>10.8%</b>	<b>0.5%</b>	0.0%	<b>0.2%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.5%</b>	<b>0.1%</b>	0.0%	0.0%	<b>10.4%</b>	<b>1.4%</b>	<b>16.3%</b>	<b>70.3%</b>	0.0%	<b>0.4%</b>	0.0%	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>53.8%</b>	<b>46.2%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>3.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>84.8%</b>	<b>12.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	<b>2.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>	0.0%	<b>87.1%</b>	<b>8.8%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>8.7%</b>	<b>1.3%</b>	0.0%	0.0%	0.0%	<b>1.3%</b>	0.0%	<b>56.7%</b>	<b>5.3%</b>	<b>22.7%</b>	0.0%	<b>4.0%</b>	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>94.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.8%</b>	<b>1.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>20.7%</b>	<b>38.9%</b>	0.0%	0.0%	<b>39.9%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>80.0%</b>	0.0%	0.0%	<b>6.7%</b>	0.0%	0.0%	0.0%	<b>13.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	<b>3.1%</b>	<b>4.5%</b>	<b>1.3%</b>	<b>11.9%</b>	0.0%	<b>1.7%</b>	<b>7.9%</b>	<b>19.9%</b>	<b>0.2%</b>	<b>0.6%</b>	<b>43.8%</b>	<b>4.5%</b>	0.0%	0.0%	<b>0.6%</b>	<b>100.0%</b>
Green Container Glass	<b>8.7%</b>	<b>11.4%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>71.6%</b>	<b>3.1%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>3.5%</b>	<b>0.8%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Brown Container Glass	<b>3.9%</b>	<b>46.0%</b>	0.0%	<b>1.7%</b>	0.0%	0.0%	<b>12.9%</b>	<b>26.1%</b>	0.0%	<b>0.2%</b>	<b>6.4%</b>	<b>2.6%</b>	0.0%	0.0%	<b>0.2%</b>	<b>100.0%</b>
Other Color Container Glass	<b>3.9%</b>	<b>27.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>29.0%</b>	<b>36.1%</b>	0.0%	0.0%	0.0%	<b>3.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Aluminum Cans	<b>17.4%</b>	<b>7.2%</b>	<b>1.1%</b>	<b>24.9%</b>	<b>0.7%</b>	<b>4.8%</b>	0.0%	<b>0.3%</b>	<b>2.5%</b>	<b>2.2%</b>	<b>12.0%</b>	<b>26.9%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>1.1%</b>	<b>0.5%</b>	<b>0.7%</b>	0.0%	<b>0.1%</b>	<b>8.6%</b>	<b>2.4%</b>	<b>80.0%</b>	<b>6.5%</b>	0.0%	0.0%	<b>0.0%</b>	<b>100.0%</b>
<b>Total</b>	<b>3.5%</b>	<b>4.7%</b>	<b>4.4%</b>	<b>10.3%</b>	<b>1.6%</b>	<b>1.2%</b>	<b>10.0%</b>	<b>7.3%</b>	<b>9.7%</b>	<b>5.4%</b>	<b>28.9%</b>	<b>12.5%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>100.0%</b>



**Exhibit 25e Staten Island Composition of Bottles, Cans and Cartons in MGP Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.6%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>1.3%</b>
#1 PET Clear/Green Bottles	<b>2.1%</b>	0.0%	<b>2.1%</b>	<b>1.2%</b>	<b>0.9%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>1.4%</b>	<b>1.7%</b>	<b>0.9%</b>	0.0%	0.0%	<b>0.0%</b>	<b>10.7%</b>
#1 PET Other Color Bottles	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.2%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.4%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>2.2%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.6%</b>	0.0%	0.0%	<b>0.0%</b>	<b>3.6%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>3.4%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>4.4%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.5%</b>	<b>2.3%</b>	0.0%	<b>2.2%</b>	0.0%	<b>0.3%</b>	<b>2.6%</b>	<b>2.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>5.4%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>15.9%</b>
Green Container Glass	<b>0.3%</b>	<b>2.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>4.2%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>6.7%</b>
Brown Container Glass	<b>0.2%</b>	<b>2.7%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>3.3%</b>
Other Color Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Aluminum Cans	<b>0.6%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>1.8%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>5.6%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>6.3%</b>
<b>Total</b>	<b>3.8%</b>	<b>7.4%</b>	<b>2.6%</b>	<b>4.7%</b>	<b>0.9%</b>	<b>0.6%</b>	<b>7.0%</b>	<b>2.6%</b>	<b>3.6%</b>	<b>2.0%</b>	<b>14.3%</b>	<b>6.1%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>55.7%</b>

**Exhibit 25e Staten Island Composition of Bottles, Cans and Cartons in MGP Stream- continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>60</b>	<b>1</b>	<b>5</b>	0	0	<b>107</b>	<b>50</b>	<b>9</b>	0	0	0	<b>14</b>	<b>245</b>
#1 PET Clear/Green Bottles	<b>381</b>	0	<b>389</b>	<b>218</b>	<b>162</b>	<b>37</b>	<b>1</b>	<b>10</b>	<b>23</b>	<b>265</b>	<b>319</b>	<b>159</b>	0	0	<b>1</b>	<b>1,962</b>
#1 PET Other Color Bottles	<b>9</b>	<b>0</b>	0	<b>33</b>	0	<b>0</b>	0	<b>2</b>	<b>6</b>	<b>7</b>	<b>12</b>	<b>27</b>	0	0	0	<b>97</b>
#2 HDPE Natural Bottles	0	0	<b>76</b>	<b>23</b>	0	0	0	<b>0</b>	<b>397</b>	<b>2</b>	<b>50</b>	<b>113</b>	0	0	<b>4</b>	<b>665</b>
#2 HDPE Pigmented Bottles	0	0	0	<b>2</b>	0	<b>0</b>	0	<b>1</b>	<b>79</b>	<b>1</b>	<b>99</b>	<b>623</b>	0	<b>1</b>	<b>1</b>	<b>807</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	<b>5</b>	<b>4</b>	0	0	<b>1</b>	<b>10</b>
#4 LDPE/LLDPE Bottles	0	0	0	<b>0</b>	0	0	0	0	0	0	<b>2</b>	<b>1</b>	0	0	0	<b>2</b>
#5 PP Rigid Bottles	0	0	0	0	0	0	0	0	<b>1</b>	0	<b>35</b>	<b>7</b>	0	0	<b>1</b>	<b>43</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	<b>0</b>	<b>0</b>	0	0	0	<b>0</b>
#7 Other Bottles	0	0	0	<b>17</b>	0	0	0	0	<b>1</b>	<b>0</b>	<b>10</b>	<b>1</b>	0	0	0	<b>29</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	<b>35</b>	0	0	0	0	0	<b>1</b>	0	0	0	0	0	<b>36</b>
Unlabeled Plastic Bottles	0	0	0	0	0	0	0	0	0	0	<b>1</b>	<b>12</b>	0	0	<b>22</b>	<b>35</b>
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	<b>1</b>	0	0	0	0	0	0	<b>0</b>	<b>0</b>	0	0	0	<b>2</b>
Clear Container Glass	<b>94</b>	<b>423</b>	0	<b>410</b>	0	<b>50</b>	<b>483</b>	<b>406</b>	<b>24</b>	<b>7</b>	<b>1,000</b>	<b>32</b>	0	0	0	<b>2,928</b>
Green Container Glass	<b>60</b>	<b>370</b>	<b>5</b>	0	0	0	<b>776</b>	0	0	0	<b>12</b>	0	0	0	0	<b>1,224</b>
Brown Container Glass	<b>31</b>	<b>500</b>	0	<b>17</b>	0	0	<b>7</b>	<b>26</b>	0	0	<b>26</b>	<b>4</b>	0	0	0	<b>611</b>
Other Color Container Glass	<b>3</b>	<b>12</b>	0	0	0	0	<b>16</b>	<b>28</b>	0	0	0	<b>3</b>	0	0	0	<b>62</b>
Aluminum Cans	<b>116</b>	<b>58</b>	<b>0</b>	<b>44</b>	<b>3</b>	<b>8</b>	0	<b>0</b>	<b>7</b>	<b>3</b>	<b>10</b>	<b>80</b>	0	0	0	<b>330</b>
Steel/Tin Food Cans	0	<b>1</b>	0	<b>10</b>	<b>2</b>	<b>9</b>	0	0	<b>21</b>	<b>24</b>	<b>1,029</b>	<b>54</b>	0	0	0	<b>1,151</b>
<b>Total</b>	<b>694</b>	<b>1,364</b>	<b>470</b>	<b>871</b>	<b>168</b>	<b>108</b>	<b>1,282</b>	<b>472</b>	<b>666</b>	<b>360</b>	<b>2,619</b>	<b>1,120</b>	0	<b>1</b>	<b>43</b>	<b>10,239</b>

**Exhibit 25e Breakdown of Container Type for each Product Type (MGP - Staten Island) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>6.9%</b>	<b>0.3%</b>	<b>4.6%</b>	0.0%	0.0%	<b>16.0%</b>	<b>14.0%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>32.3%</b>	<b>2.4%</b>
#1 PET Clear/Green Bottles	<b>54.9%</b>	0.0%	<b>82.6%</b>	<b>25.0%</b>	<b>96.4%</b>	<b>33.7%</b>	<b>0.0%</b>	<b>2.0%</b>	<b>3.4%</b>	<b>73.7%</b>	<b>12.2%</b>	<b>14.2%</b>	0.0%	0.0%	<b>1.2%</b>	<b>19.2%</b>
#1 PET Other Color Bottles	<b>1.4%</b>	<b>0.0%</b>	0.0%	<b>3.8%</b>	0.0%	<b>0.3%</b>	0.0%	<b>0.4%</b>	<b>0.9%</b>	<b>1.9%</b>	<b>0.5%</b>	<b>2.4%</b>	0.0%	0.0%	0.0%	<b>1.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>16.2%</b>	<b>2.6%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>59.6%</b>	<b>0.4%</b>	<b>1.9%</b>	<b>10.1%</b>	0.0%	0.0%	<b>8.3%</b>	<b>6.5%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	<b>0.2%</b>	0.0%	<b>0.2%</b>	<b>11.9%</b>	<b>0.4%</b>	<b>3.8%</b>	<b>55.6%</b>	0.0%	<b>100.0%</b>	<b>2.5%</b>	<b>7.9%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.3%</b>	0.0%	0.0%	<b>2.1%</b>	<b>0.1%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>1.3%</b>	<b>0.6%</b>	0.0%	0.0%	<b>2.5%</b>	<b>0.4%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>1.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>4.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>1.1%</b>	0.0%	0.0%	<b>51.2%</b>	<b>0.3%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>13.5%</b>	<b>31.0%</b>	0.0%	<b>47.1%</b>	0.0%	<b>45.7%</b>	<b>37.6%</b>	<b>85.9%</b>	<b>3.6%</b>	<b>1.9%</b>	<b>38.2%</b>	<b>2.9%</b>	0.0%	0.0%	0.0%	<b>28.6%</b>
Green Container Glass	<b>8.7%</b>	<b>27.1%</b>	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>60.5%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>12.0%</b>
Brown Container Glass	<b>4.4%</b>	<b>36.7%</b>	0.0%	<b>1.9%</b>	0.0%	0.0%	<b>0.5%</b>	<b>5.6%</b>	0.0%	0.0%	<b>1.0%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>6.0%</b>
Other Color Container Glass	<b>0.5%</b>	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>	<b>5.9%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>
Aluminum Cans	<b>16.7%</b>	<b>4.2%</b>	<b>0.1%</b>	<b>5.1%</b>	<b>1.8%</b>	<b>7.4%</b>	0.0%	<b>0.0%</b>	<b>1.1%</b>	<b>0.7%</b>	<b>0.4%</b>	<b>7.2%</b>	0.0%	0.0%	0.0%	<b>3.2%</b>
Steel/Tin Food Cans	0.0%	<b>0.1%</b>	0.0%	<b>1.1%</b>	<b>1.5%</b>	<b>8.2%</b>	0.0%	0.0%	<b>3.2%</b>	<b>6.6%</b>	<b>39.3%</b>	<b>4.9%</b>	0.0%	0.0%	0.0%	<b>11.2%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 25e Breakdown of Product Type for each Container Type (MGP - Staten Island) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>24.5%</b>	<b>0.2%</b>	<b>2.0%</b>	0.0%	0.0%	<b>43.5%</b>	<b>20.6%</b>	<b>3.6%</b>	0.0%	0.0%	0.0%	<b>5.7%</b>	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>19.4%</b>	0.0%	<b>19.8%</b>	<b>11.1%</b>	<b>8.3%</b>	<b>1.9%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>1.2%</b>	<b>13.5%</b>	<b>16.3%</b>	<b>8.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>9.7%</b>	<b>0.4%</b>	0.0%	<b>34.2%</b>	0.0%	<b>0.4%</b>	0.0%	<b>1.8%</b>	<b>6.0%</b>	<b>6.9%</b>	<b>12.8%</b>	<b>27.9%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>11.5%</b>	<b>3.4%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>59.7%</b>	<b>0.2%</b>	<b>7.6%</b>	<b>17.0%</b>	0.0%	0.0%	<b>0.5%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>9.8%</b>	<b>0.2%</b>	<b>12.2%</b>	<b>77.1%</b>	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>52.7%</b>	<b>38.2%</b>	0.0%	0.0%	<b>9.1%</b>	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>7.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>69.2%</b>	<b>23.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.0%</b>	0.0%	<b>80.4%</b>	<b>15.1%</b>	0.0%	0.0%	<b>2.4%</b>	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>59.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.9%</b>	<b>0.6%</b>	<b>34.2%</b>	<b>4.3%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>97.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.0%</b>	<b>35.0%</b>	0.0%	0.0%	<b>62.0%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>88.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	<b>3.2%</b>	<b>14.4%</b>	0.0%	<b>14.0%</b>	0.0%	<b>1.7%</b>	<b>16.5%</b>	<b>13.9%</b>	<b>0.8%</b>	<b>0.2%</b>	<b>34.1%</b>	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Green Container Glass	<b>4.9%</b>	<b>30.2%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>63.4%</b>	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Brown Container Glass	<b>5.0%</b>	<b>81.9%</b>	0.0%	<b>2.7%</b>	0.0%	0.0%	<b>1.1%</b>	<b>4.3%</b>	0.0%	0.0%	<b>4.3%</b>	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	<b>5.5%</b>	<b>19.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>25.9%</b>	<b>45.0%</b>	0.0%	0.0%	0.0%	<b>4.6%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Aluminum Cans	<b>35.1%</b>	<b>17.5%</b>	<b>0.1%</b>	<b>13.5%</b>	<b>0.9%</b>	<b>2.4%</b>	0.0%	<b>0.1%</b>	<b>2.3%</b>	<b>0.8%</b>	<b>3.0%</b>	<b>24.4%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	<b>0.1%</b>	0.0%	<b>0.9%</b>	<b>0.2%</b>	<b>0.8%</b>	0.0%	0.0%	<b>1.9%</b>	<b>2.1%</b>	<b>89.4%</b>	<b>4.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>	<b>6.8%</b>	<b>13.3%</b>	<b>4.6%</b>	<b>8.5%</b>	<b>1.6%</b>	<b>1.1%</b>	<b>12.5%</b>	<b>4.6%</b>	<b>6.5%</b>	<b>3.5%</b>	<b>25.6%</b>	<b>10.9%</b>	0.0%	<b>0.0%</b>	<b>0.4%</b>	<b>100.0%</b>

**Exhibit 26a Bronx Composition of Bottles, Cans and Cartons in Paper Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
#1 PET Clear/Green Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.0%</b>	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
Green Container Glass	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Brown Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
<b>Total</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.0%</b>

**Exhibit 26a Bronx Composition of Bottles, Cans and Cartons in Paper Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>47</b>	0	0	0	0	<b>17</b>	<b>17</b>	<b>1</b>	0	0	0	0	<b>82</b>
#1 PET Clear/Green Bottles	<b>2</b>	0	<b>6</b>	<b>17</b>	<b>4</b>	<b>2</b>	0	0	0	0	0	<b>8</b>	0	0	<b>2</b>	<b>41</b>
#1 PET Other Color Bottles	<b>3</b>	0	0	<b>2</b>	0	0	0	0	0	0	0	0	0	0	0	<b>5</b>
#2 HDPE Natural Bottles	0	0	0	<b>1</b>	0	0	0	0	<b>7</b>	0	0	<b>3</b>	0	0	<b>1</b>	<b>12</b>
#2 HDPE Pigmented Bottles	0	0	0	0	0	0	0	0	0	0	<b>1</b>	0	0	0	0	<b>1</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#5 PP Rigid Bottles	0	0	0	0	0	0	0	0	0	0	<b>3</b>	0	0	0	0	<b>3</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unlabeled Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	<b>2</b>	0	0	0	<b>1</b>	0	0	0	0	0	0	0	<b>2</b>
Clear Container Glass	<b>6</b>	0	0	<b>77</b>	0	0	0	<b>15</b>	0	0	0	0	0	0	0	<b>97</b>
Green Container Glass	<b>4</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>4</b>
Brown Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Color Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aluminum Cans	<b>7</b>	<b>2</b>	0	0	0	0	0	0	0	0	<b>2</b>	0	0	0	0	<b>10</b>
Steel/Tin Food Cans	0	0	0	0	0	0	0	0	<b>4</b>	0	<b>24</b>	0	0	0	0	<b>29</b>
<b>Total</b>	<b>22</b>	<b>2</b>	<b>6</b>	<b>145</b>	<b>4</b>	<b>2</b>	0	<b>15</b>	<b>28</b>	<b>17</b>	<b>31</b>	<b>11</b>	0	0	<b>3</b>	<b>287</b>

**Exhibit 26a Breakdown of Container Type for each Product Type (Paper - Bronx) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>32.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>60.8%</b>	<b>100.0%</b>	<b>3.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>28.6%</b>
#1 PET Clear/Green Bottles	<b>10.0%</b>	0.0%	<b>100.0%</b>	<b>11.7%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>75.0%</b>	0.0%	0.0%	<b>66.7%</b>	<b>14.4%</b>
#1 PET Other Color Bottles	<b>12.5%</b>	0.0%	0.0%	<b>1.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	0.0%	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>23.5%</b>	0.0%	0.0%	<b>25.0%</b>	0.0%	0.0%	<b>33.3%</b>	<b>4.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>8.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>3.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>
Clear Container Glass	<b>27.5%</b>	0.0%	0.0%	<b>52.7%</b>	0.0%	0.0%	0.0%	<b>96.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>34.0%</b>
Green Container Glass	<b>20.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.5%</b>
Brown Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>30.0%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>3.6%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>15.7%</b>	0.0%	<b>78.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>10.0%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 26a Breakdown of Product Type for each Container Type (Paper - Bronx) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>57.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>20.8%</b>	<b>20.8%</b>	<b>1.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>5.3%</b>	0.0%	<b>14.7%</b>	<b>41.3%</b>	<b>9.3%</b>	<b>4.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>20.0%</b>	0.0%	0.0%	<b>5.3%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>55.6%</b>	0.0%	0.0%	<b>44.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	0.0%	<b>9.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>57.1%</b>	0.0%	0.0%	<b>23.8%</b>	0.0%	0.0%	<b>9.5%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>75.0%</b>	0.0%	0.0%	0.0%	<b>25.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	<b>6.2%</b>	0.0%	0.0%	<b>78.5%</b>	0.0%	0.0%	0.0%	<b>15.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Green Container Glass	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Brown Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>63.2%</b>	<b>21.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>15.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>15.4%</b>	0.0%	<b>84.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>	<b>7.7%</b>	<b>0.8%</b>	<b>2.1%</b>	<b>50.7%</b>	<b>1.3%</b>	<b>0.6%</b>	0.0%	<b>5.4%</b>	<b>9.8%</b>	<b>6.0%</b>	<b>10.7%</b>	<b>3.8%</b>	0.0%	0.0%	<b>1.2%</b>	<b>100.0%</b>

**Exhibit 26b Brooklyn Composition of Bottles, Cans and Cartons in Paper Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
#1 PET Clear/Green Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
#1 PET Other Color Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Green Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Brown Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
<b>Total</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.7%</b>

**Exhibit 26b Brooklyn Composition of Bottles, Cans and Cartons in Paper Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>72</b>	0	0	0	0	<b>87</b>	<b>44</b>	9	4	0	0	0	<b>216</b>
#1 PET Clear/Green Bottles	<b>12</b>	0	<b>14</b>	<b>14</b>	<b>4</b>	<b>2</b>	0	0	0	<b>44</b>	<b>17</b>	<b>6</b>	0	0	0	<b>114</b>
#1 PET Other Color Bottles	0	0	<b>1</b>	<b>12</b>	0	0	0	0	0	0	<b>1</b>	<b>1</b>	0	0	0	<b>16</b>
#2 HDPE Natural Bottles	0	0	<b>24</b>	<b>2</b>	0	0	0	0	<b>2</b>	<b>1</b>	0	<b>10</b>	0	0	0	<b>40</b>
#2 HDPE Pigmented Bottles	0	0	0	0	0	0	0	0	<b>6</b>	0	<b>1</b>	<b>11</b>	0	<b>9</b>	0	<b>27</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#5 PP Rigid Bottles	0	0	0	0	0	0	0	0	0	0	<b>2</b>	0	0	0	0	<b>2</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>	0	0	0	<b>1</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unlabeled Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>2</b>	0	0	0	<b>2</b>
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	0	0	0	0	0	0	<b>1</b>	0	0	0	0	0	<b>1</b>
Clear Container Glass	0	0	0	<b>40</b>	0	0	0	<b>22</b>	0	0	<b>15</b>	0	0	0	0	<b>77</b>
Green Container Glass	0	0	0	0	0	0	<b>26</b>	0	0	0	0	0	0	0	0	<b>26</b>
Brown Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Color Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aluminum Cans	<b>12</b>	<b>1</b>	0	<b>10</b>	0	0	0	0	0	0	<b>1</b>	<b>2</b>	0	0	0	<b>27</b>
Steel/Tin Food Cans	0	0	0	0	0	0	0	0	<b>7</b>	<b>4</b>	<b>64</b>	<b>1</b>	0	0	<b>1</b>	<b>77</b>
<b>Total</b>	<b>25</b>	<b>1</b>	<b>39</b>	<b>151</b>	<b>4</b>	<b>2</b>	<b>26</b>	<b>22</b>	<b>104</b>	<b>94</b>	<b>111</b>	<b>40</b>	0	<b>9</b>	<b>1</b>	<b>630</b>

**Exhibit 26b Breakdown of Container Type for each Product Type (Paper - Brooklyn) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>47.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>84.3%</b>	<b>46.7%</b>	<b>7.9%</b>	<b>9.4%</b>	0.0%	0.0%	0.0%	<b>34.3%</b>
#1 PET Clear/Green Bottles	<b>50.0%</b>	0.0%	<b>35.5%</b>	<b>9.1%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>46.7%</b>	<b>15.7%</b>	<b>15.6%</b>	0.0%	0.0%	0.0%	<b>18.1%</b>
#1 PET Other Color Bottles	0.0%	0.0%	<b>3.2%</b>	<b>8.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	<b>3.1%</b>	0.0%	0.0%	0.0%	<b>2.6%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>61.3%</b>	<b>1.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.4%</b>	<b>1.3%</b>	0.0%	<b>25.0%</b>	0.0%	0.0%	0.0%	<b>6.3%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.0%</b>	0.0%	<b>1.1%</b>	<b>28.1%</b>	0.0%	<b>100.0%</b>	0.0%	<b>4.4%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.1%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.3%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Clear Container Glass	0.0%	0.0%	0.0%	<b>26.4%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>13.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>12.3%</b>
Green Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.2%</b>
Brown Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>50.0%</b>	<b>100.0%</b>	0.0%	<b>6.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	<b>6.3%</b>	0.0%	0.0%	0.0%	<b>4.4%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.2%</b>	<b>4.0%</b>	<b>57.3%</b>	<b>3.1%</b>	0.0%	0.0%	<b>100.0%</b>	<b>12.3%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 26b Breakdown of Product Type for each Container Type (Paper - Brooklyn) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>33.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>40.5%</b>	<b>20.2%</b>	<b>4.0%</b>	<b>1.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>11.0%</b>	0.0%	<b>12.1%</b>	<b>12.1%</b>	<b>3.3%</b>	<b>2.2%</b>	0.0%	0.0%	0.0%	<b>38.5%</b>	<b>15.4%</b>	<b>5.5%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Other Color Bottles	0.0%	0.0%	<b>7.7%</b>	<b>76.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.7%</b>	<b>7.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>59.4%</b>	<b>6.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>6.3%</b>	<b>3.1%</b>	0.0%	<b>25.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>22.7%</b>	0.0%	<b>4.5%</b>	<b>40.9%</b>	0.0%	<b>31.8%</b>	0.0%	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	0.0%	0.0%	0.0%	<b>51.6%</b>	0.0%	0.0%	<b>100.0%</b>	<b>29.0%</b>	0.0%	0.0%	<b>19.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Green Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Brown Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>45.5%</b>	<b>4.5%</b>	0.0%	<b>36.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.5%</b>	<b>9.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.7%</b>	<b>4.8%</b>	<b>82.3%</b>	<b>1.6%</b>	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>
<b>Total</b>	<b>4.0%</b>	<b>0.2%</b>	<b>6.2%</b>	<b>24.0%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>4.2%</b>	<b>3.6%</b>	<b>16.5%</b>	<b>14.9%</b>	<b>17.7%</b>	<b>6.3%</b>	0.0%	<b>1.4%</b>	<b>0.2%</b>	<b>100.0%</b>

**Exhibit 26c Manhattan Composition of Bottles, Cans and Cartons in Paper Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
#1 PET Clear/Green Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Green Container Glass	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Brown Container Glass	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
<b>Total</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>

**Exhibit 26c Manhattan Composition of Bottles, Cans and Cartons in Paper Stream**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>13</b>	0	0	0	0	<b>84</b>	<b>18</b>	<b>9</b>	0	0	0	0	<b>124</b>
#1 PET Clear/Green Bottles	<b>8</b>	0	<b>13</b>	<b>11</b>	<b>2</b>	<b>4</b>	0	0	0	<b>4</b>	<b>9</b>	<b>12</b>	0	0	0	<b>63</b>
#1 PET Other Color Bottles	0	0	0	<b>5</b>	0	0	0	0	0	0	0	0	0	0	0	<b>5</b>
#2 HDPE Natural Bottles	0	0	0	0	0	0	0	0	<b>5</b>	0	0	<b>4</b>	0	0	0	<b>10</b>
#2 HDPE Pigmented Bottles	0	0	0	0	0	0	0	0	<b>10</b>	0	<b>5</b>	<b>8</b>	0	0	0	<b>23</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#5 PP Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	0	0	0	0	0	0	0	<b>2</b>	0	0	0	0	<b>2</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unlabeled Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>	0	0	0	<b>1</b>
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clear Container Glass	<b>17</b>	0	0	<b>22</b>	0	0	0	<b>18</b>	0	0	<b>10</b>	0	0	0	0	<b>68</b>
Green Container Glass	<b>37</b>	<b>10</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>47</b>
Brown Container Glass	0	<b>10</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>10</b>
Other Color Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aluminum Cans	<b>5</b>	0	0	0	0	0	0	0	0	<b>1</b>	0	<b>1</b>	0	0	0	<b>8</b>
Steel/Tin Food Cans	0	0	0	<b>2</b>	0	0	0	0	<b>2</b>	0	<b>35</b>	0	0	0	0	<b>39</b>
<b>Total</b>	<b>67</b>	<b>20</b>	<b>13</b>	<b>53</b>	<b>2</b>	<b>4</b>	0	<b>18</b>	<b>101</b>	<b>24</b>	<b>70</b>	<b>26</b>	0	0	0	<b>400</b>

**Exhibit 26c Breakdown of Container Type for each Product Type (Paper - Manhattan) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non- Food/Non- Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>24.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>82.8%</b>	<b>77.3%</b>	<b>12.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>31.0%</b>
#1 PET Clear/Green Bottles	<b>11.3%</b>	0.0%	<b>100.0%</b>	<b>20.4%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>18.2%</b>	<b>12.5%</b>	<b>45.8%</b>	0.0%	0.0%	0.0%	<b>15.8%</b>
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	<b>10.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.4%</b>	0.0%	0.0%	<b>16.7%</b>	0.0%	0.0%	0.0%	<b>2.5%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.7%</b>	0.0%	<b>7.8%</b>	<b>29.2%</b>	0.0%	0.0%	0.0%	<b>5.7%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.2%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	<b>25.8%</b>	0.0%	0.0%	<b>40.8%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>14.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>16.9%</b>
Green Container Glass	<b>54.8%</b>	<b>50.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.7%</b>
Brown Container Glass	0.0%	<b>50.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.5%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>8.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.5%</b>	0.0%	<b>4.2%</b>	0.0%	0.0%	0.0%	<b>1.9%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>4.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.2%</b>	0.0%	<b>49.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>9.8%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>

**Exhibit 26c Breakdown of Product Type for each Container Type (Paper - Manhattan) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non- Food/Non- Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>10.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>67.5%</b>	<b>14.9%</b>	<b>7.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>12.1%</b>	0.0%	<b>20.7%</b>	<b>17.2%</b>	<b>3.4%</b>	<b>6.9%</b>	0.0%	0.0%	0.0%	<b>6.9%</b>	<b>13.8%</b>	<b>19.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>55.6%</b>	0.0%	0.0%	<b>44.4%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>42.9%</b>	0.0%	<b>23.8%</b>	<b>33.3%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	<b>25.7%</b>	0.0%	0.0%	<b>32.2%</b>	0.0%	0.0%	0.0%	<b>27.3%</b>	0.0%	0.0%	<b>14.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Green Container Glass	<b>79.1%</b>	<b>20.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Brown Container Glass	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>71.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.3%</b>	0.0%	<b>14.3%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>5.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>5.6%</b>	0.0%	<b>88.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>	<b>16.9%</b>	<b>4.9%</b>	<b>3.3%</b>	<b>13.3%</b>	<b>0.5%</b>	<b>1.1%</b>	0.0%	<b>4.6%</b>	<b>25.3%</b>	<b>6.0%</b>	<b>17.5%</b>	<b>6.5%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>



**Exhibit 26d Queens Composition of Bottles, Cans and Cartons in Paper Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>
#1 PET Clear/Green Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Green Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Brown Container Glass	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
<b>Total</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>1.5%</b>

**Exhibit 26d Queens Composition of Bottles, Cans and Cartons in Paper Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	247	0	0	0	0	161	58	21	0	0	0	0	486
#1 PET Clear/Green Bottles	18	0	21	30	11	2	0	2	1	20	31	12	0	0	0	148
#1 PET Other Color Bottles	4	0	0	11	4	0	0	2	0	0	3	3	0	0	0	28
#2 HDPE Natural Bottles	0	0	17	1	0	0	0	0	32	0	12	10	0	7	0	79
#2 HDPE Pigmented Bottles	0	0	0	0	0	0	0	0	0	0	0	22	0	10	0	32
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#5 PP Rigid Bottles	0	0	0	8	0	0	0	0	0	0	3	0	0	0	0	11
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	7	0	0	0	0	0	0	6	0	0	0	0	13
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unlabeled Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clear Container Glass	0	0	0	21	0	0	22	46	0	0	53	0	0	0	0	141
Green Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown Container Glass	10	0	0	0	0	0	62	0	0	0	0	0	0	0	0	72
Other Color Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aluminum Cans	5	1	0	1	0	38	0	0	0	0	5	39	0	0	0	90
Steel/Tin Food Cans	0	0	0	4	0	0	0	0	8	0	86	7	0	0	0	108
<b>Total</b>	<b>37</b>	<b>1</b>	<b>37</b>	<b>330</b>	<b>15</b>	<b>40</b>	<b>84</b>	<b>51</b>	<b>202</b>	<b>77</b>	<b>220</b>	<b>99</b>	<b>0</b>	<b>18</b>	<b>3</b>	<b>1,215</b>

**Exhibit 26d Breakdown of Container Type for each Product Type (Paper - Queens) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>74.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>79.6%</b>	<b>74.7%</b>	<b>9.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>40.0%</b>
#1 PET Clear/Green Bottles	<b>47.2%</b>	0.0%	<b>55.6%</b>	<b>9.1%</b>	<b>73.3%</b>	<b>5.1%</b>	0.0%	<b>4.1%</b>	<b>0.5%</b>	<b>25.3%</b>	<b>14.1%</b>	<b>12.5%</b>	0.0%	0.0%	0.0%	<b>12.1%</b>
#1 PET Other Color Bottles	<b>11.1%</b>	0.0%	0.0%	<b>3.4%</b>	<b>26.7%</b>	0.0%	0.0%	<b>4.1%</b>	0.0%	0.0%	<b>1.4%</b>	<b>3.1%</b>	0.0%	0.0%	0.0%	<b>2.3%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>44.4%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>15.8%</b>	0.0%	<b>5.6%</b>	<b>10.4%</b>	0.0%	<b>41.2%</b>	0.0%	<b>6.5%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>21.9%</b>	0.0%	<b>58.8%</b>	0.0%	<b>2.6%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>2.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>2.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.2%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	0.0%	0.0%	0.0%	<b>6.2%</b>	0.0%	0.0%	<b>25.9%</b>	<b>91.8%</b>	0.0%	0.0%	<b>23.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>11.6%</b>
Green Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Brown Container Glass	<b>27.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>74.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.9%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>13.9%</b>	<b>100.0%</b>	0.0%	<b>0.3%</b>	0.0%	<b>94.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>	<b>39.6%</b>	0.0%	0.0%	0.0%	<b>7.4%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>1.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>4.1%</b>	0.0%	<b>38.9%</b>	<b>7.3%</b>	0.0%	0.0%	<b>100.0%</b>	<b>8.9%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 26d Breakdown of Product Type for each Container Type (Paper - Queens) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>50.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>33.1%</b>	<b>11.9%</b>	<b>4.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>11.9%</b>	0.0%	<b>14.0%</b>	<b>20.3%</b>	<b>7.7%</b>	<b>1.4%</b>	0.0%	<b>1.4%</b>	<b>0.7%</b>	<b>13.3%</b>	<b>21.0%</b>	<b>8.4%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Other Color Bottles	<b>14.8%</b>	0.0%	0.0%	<b>40.7%</b>	<b>14.8%</b>	0.0%	0.0%	<b>7.4%</b>	0.0%	0.0%	<b>11.1%</b>	<b>11.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>20.8%</b>	<b>1.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>40.3%</b>	0.0%	<b>15.6%</b>	<b>13.0%</b>	0.0%	<b>9.1%</b>	0.0%	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>67.7%</b>	0.0%	<b>32.3%</b>	0.0%	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>72.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>27.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>53.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>46.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Clear Container Glass	0.0%	0.0%	0.0%	<b>14.6%</b>	0.0%	0.0%	<b>15.3%</b>	<b>32.8%</b>	0.0%	0.0%	<b>37.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Green Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Brown Container Glass	<b>14.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>85.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>5.7%</b>	<b>1.1%</b>	0.0%	<b>1.1%</b>	0.0%	<b>42.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>5.7%</b>	<b>43.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>3.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>7.6%</b>	0.0%	<b>79.0%</b>	<b>6.7%</b>	0.0%	0.0%	<b>2.9%</b>	<b>100.0%</b>
<b>Total</b>	<b>3.1%</b>	<b>0.1%</b>	<b>3.1%</b>	<b>27.2%</b>	<b>1.3%</b>	<b>3.3%</b>	<b>6.9%</b>	<b>4.2%</b>	<b>16.6%</b>	<b>6.4%</b>	<b>18.1%</b>	<b>8.2%</b>	0.0%	<b>1.4%</b>	<b>0.3%</b>	<b>100.0%</b>

**Exhibit 26e Staten Island Composition of Bottles, Cans and Cartons in Paper Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
#1 PET Clear/Green Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Green Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Brown Container Glass	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
<b>Total</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.2%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.7%</b>

**Exhibit 26e Staten Island Composition of Bottles, Cans and Cartons in Paper Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>12</b>	0	0	0	0	<b>43</b>	<b>8</b>	<b>2</b>	0	0	0	0	<b>64</b>
#1 PET Clear/Green Bottles	<b>5</b>	0	<b>11</b>	<b>2</b>	<b>2</b>	0	0	0	0	<b>6</b>	<b>4</b>	<b>10</b>	0	0	0	<b>40</b>
#1 PET Other Color Bottles	0	0	0	0	0	0	0	0	0	<b>0</b>	0	0	0	0	0	<b>0</b>
#2 HDPE Natural Bottles	0	0	<b>3</b>	<b>1</b>	0	0	0	0	<b>4</b>	<b>0</b>	0	0	0	0	0	<b>8</b>
#2 HDPE Pigmented Bottles	0	0	0	0	0	0	0	0	<b>5</b>	0	0	<b>5</b>	0	0	0	<b>10</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#5 PP Rigid Bottles	0	0	0	0	0	0	0	0	0	0	<b>2</b>	0	0	0	0	<b>2</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unlabeled Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
Clear Container Glass	<b>3</b>	0	0	<b>5</b>	0	0	0	0	0	0	<b>11</b>	0	0	0	0	<b>20</b>
Green Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown Container Glass	0	<b>4</b>	0	0	0	0	<b>12</b>	0	0	0	0	0	0	0	0	<b>16</b>
Other Color Container Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aluminum Cans	<b>1</b>	0	0	<b>0</b>	0	0	0	0	0	0	0	<b>1</b>	0	0	0	<b>3</b>
Steel/Tin Food Cans	0	0	0	0	0	0	0	0	0	<b>4</b>	<b>2</b>	0	0	0	<b>1</b>	<b>7</b>
<b>Total</b>	<b>9</b>	<b>4</b>	<b>14</b>	<b>21</b>	<b>2</b>	0	<b>12</b>	0	<b>52</b>	<b>19</b>	<b>21</b>	<b>16</b>	0	0	<b>1</b>	<b>171</b>

**Exhibit 26e Breakdown of Container Type for each Product Type (Paper - Staten Island) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>56.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>82.7%</b>	<b>42.5%</b>	<b>9.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>37.7%</b>
#1 PET Clear/Green Bottles	<b>50.0%</b>	0.0%	<b>80.0%</b>	<b>9.1%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>32.5%</b>	<b>18.2%</b>	<b>63.6%</b>	0.0%	0.0%	0.0%	<b>23.4%</b>
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>20.0%</b>	<b>4.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>7.3%</b>	<b>2.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.7%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>10.0%</b>	0.0%	0.0%	<b>30.3%</b>	0.0%	0.0%	0.0%	<b>5.8%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>2.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
Clear Container Glass	<b>35.0%</b>	0.0%	0.0%	<b>25.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>54.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>11.6%</b>
Green Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Brown Container Glass	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.4%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>15.0%</b>	0.0%	0.0%	<b>2.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.1%</b>	0.0%	0.0%	0.0%	<b>1.7%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>20.0%</b>	<b>9.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>4.1%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 26e Breakdown of Product Type for each Container Type (Paper - Staten Island) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>18.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>66.4%</b>	<b>12.4%</b>	<b>2.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>11.8%</b>	0.0%	<b>28.2%</b>	<b>4.7%</b>	<b>5.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>15.3%</b>	<b>9.4%</b>	<b>24.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>35.3%</b>	<b>11.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>47.1%</b>	<b>5.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>52.4%</b>	0.0%	0.0%	<b>47.6%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	<b>16.7%</b>	0.0%	0.0%	<b>26.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>57.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Green Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Brown Container Glass	0.0%	<b>26.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>73.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Aluminum Cans	<b>50.0%</b>	0.0%	0.0%	<b>16.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>33.3%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>53.3%</b>	<b>26.7%</b>	0.0%	0.0%	0.0%	<b>20.0%</b>	<b>100.0%</b>
<b>Total</b>	<b>5.5%</b>	<b>2.5%</b>	<b>8.3%</b>	<b>12.1%</b>	<b>1.4%</b>	0.0%	<b>6.9%</b>	0.0%	<b>30.3%</b>	<b>11.0%</b>	<b>12.1%</b>	<b>9.1%</b>	0.0%	0.0%	<b>0.8%</b>	<b>100.0%</b>

**Exhibit 27a Bronx Composition of Bottles, Cans and Cartons in Refuse Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
#1 PET Clear/Green Bottles	<b>0.3%</b>	0.0%	<b>0.1%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.1%</b>
#1 PET Other Color Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Clear Container Glass	<b>0.1%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>1.2%</b>
Green Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
Brown Container Glass	<b>0.1%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
<b>Total</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.2%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.2%</b>	<b>1.5%</b>	<b>0.6%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>5.3%</b>

**Exhibit 27a Bronx Composition of Bottles, Cans and Cartons in Refuse Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	565	5	64	0	250	620	169	128	5	0	0	0	1,806
#1 PET Clear/Green Bottles	1,165	0	561	659	172	133	5	87	43	449	847	492	0	0	7	4,620
#1 PET Other Color Bottles	0	0	25	300	0	2	7	0	160	16	9	101	0	9	0	630
#2 HDPE Natural Bottles	0	0	76	149	0	0	0	0	652	18	110	247	0	23	5	1,280
#2 HDPE Pigmented Bottles	0	0	0	5	0	14	0	7	96	0	238	790	0	69	7	1,225
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#5 PP Rigid Bottles	0	0	0	0	0	0	0	0	16	0	76	18	0	0	0	110
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	0	0	0	0	0	2	5	43	11	0	5	0	66
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	0	0	2	0	0	7	0	0	2	0	0	5	16
Unlabeled Plastic Bottles	0	0	0	9	0	0	0	0	0	0	34	87	0	0	21	151
BioPlastic Bottles	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Film Plastic: Food/Drink Pouches	0	0	0	220	0	0	0	0	0	2	11	0	0	0	0	233
Clear Container Glass	366	1,316	34	515	0	87	46	948	25	25	1,694	231	0	0	0	5,288
Green Container Glass	16	277	0	0	0	0	167	0	0	0	0	5	0	0	0	465
Brown Container Glass	320	932	0	121	0	0	32	82	0	0	50	2	0	0	0	1,541
Other Color Container Glass	0	0	0	0	0	0	21	78	0	0	9	2	0	0	0	110
Aluminum Cans	515	350	11	181	5	66	0	7	9	14	124	190	0	0	9	1,481
Steel/Tin Food Cans	0	0	0	43	0	98	0	25	215	151	2,937	185	0	82	0	3,738
<b>Total</b>	<b>2,383</b>	<b>2,875</b>	<b>707</b>	<b>2,791</b>	<b>181</b>	<b>467</b>	<b>277</b>	<b>1,483</b>	<b>1,847</b>	<b>849</b>	<b>6,320</b>	<b>2,369</b>	<b>0</b>	<b>188</b>	<b>53</b>	<b>22,791</b>

**Exhibit 27a Breakdown of Container Type for each Product Type (Refuse - Bronx) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>20.3%</b>	<b>2.5%</b>	<b>13.7%</b>	0.0%	<b>16.8%</b>	<b>33.6%</b>	<b>19.9%</b>	<b>2.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>7.9%</b>
#1 PET Clear/Green Bottles	<b>48.9%</b>	0.0%	<b>79.3%</b>	<b>23.6%</b>	<b>94.9%</b>	<b>28.4%</b>	<b>1.7%</b>	<b>5.9%</b>	<b>2.4%</b>	<b>52.8%</b>	<b>13.4%</b>	<b>20.8%</b>	0.0%	0.0%	<b>13.0%</b>	<b>20.3%</b>
#1 PET Other Color Bottles	0.0%	0.0%	<b>3.6%</b>	<b>10.7%</b>	0.0%	<b>0.5%</b>	<b>2.5%</b>	0.0%	<b>8.7%</b>	<b>1.9%</b>	<b>0.1%</b>	<b>4.3%</b>	0.0%	<b>4.9%</b>	0.0%	<b>2.8%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>10.7%</b>	<b>5.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>35.3%</b>	<b>2.2%</b>	<b>1.7%</b>	<b>10.4%</b>	0.0%	<b>12.2%</b>	<b>8.7%</b>	<b>5.6%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	<b>2.9%</b>	0.0%	<b>0.5%</b>	<b>5.2%</b>	0.0%	<b>3.8%</b>	<b>33.3%</b>	0.0%	<b>36.6%</b>	<b>13.0%</b>	<b>5.4%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	<b>1.2%</b>	<b>0.8%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.5%</b>	<b>0.7%</b>	<b>0.5%</b>	0.0%	<b>2.4%</b>	0.0%	<b>0.3%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>8.7%</b>	<b>0.1%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>3.7%</b>	0.0%	0.0%	<b>39.1%</b>	<b>0.7%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>7.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>
Clear Container Glass	<b>15.4%</b>	<b>45.8%</b>	<b>4.9%</b>	<b>18.5%</b>	0.0%	<b>18.6%</b>	<b>16.5%</b>	<b>63.9%</b>	<b>1.4%</b>	<b>3.0%</b>	<b>26.8%</b>	<b>9.8%</b>	0.0%	0.0%	0.0%	<b>23.2%</b>
Green Container Glass	<b>0.7%</b>	<b>9.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>60.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>2.0%</b>
Brown Container Glass	<b>13.4%</b>	<b>32.4%</b>	0.0%	<b>4.3%</b>	0.0%	0.0%	<b>11.6%</b>	<b>5.6%</b>	0.0%	0.0%	<b>0.8%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>6.8%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.4%</b>	<b>5.2%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
Aluminum Cans	<b>21.6%</b>	<b>12.2%</b>	<b>1.6%</b>	<b>6.5%</b>	<b>2.5%</b>	<b>14.2%</b>	0.0%	<b>0.5%</b>	<b>0.5%</b>	<b>1.6%</b>	<b>2.0%</b>	<b>8.0%</b>	0.0%	0.0%	<b>17.4%</b>	<b>6.5%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>1.6%</b>	0.0%	<b>21.1%</b>	0.0%	<b>1.7%</b>	<b>11.6%</b>	<b>17.8%</b>	<b>46.5%</b>	<b>7.8%</b>	0.0%	<b>43.9%</b>	0.0%	<b>16.4%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 27a Breakdown of Product Type for each Container Type (Refuse - Bronx) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>31.3%</b>	<b>0.3%</b>	<b>3.5%</b>	0.0%	<b>13.8%</b>	<b>34.3%</b>	<b>9.4%</b>	<b>7.1%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>25.2%</b>	0.0%	<b>12.1%</b>	<b>14.3%</b>	<b>3.7%</b>	<b>2.9%</b>	<b>0.1%</b>	<b>1.9%</b>	<b>0.9%</b>	<b>9.7%</b>	<b>18.3%</b>	<b>10.7%</b>	0.0%	0.0%	<b>0.1%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	0.0%	0.0%	<b>4.0%</b>	<b>47.6%</b>	0.0%	<b>0.4%</b>	<b>1.1%</b>	0.0%	<b>25.5%</b>	<b>2.5%</b>	<b>1.5%</b>	<b>16.0%</b>	0.0%	<b>1.5%</b>	0.0%	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>5.9%</b>	<b>11.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>51.0%</b>	<b>1.4%</b>	<b>8.6%</b>	<b>19.3%</b>	0.0%	<b>1.8%</b>	<b>0.4%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	<b>1.1%</b>	0.0%	<b>0.6%</b>	<b>7.9%</b>	0.0%	<b>19.4%</b>	<b>64.5%</b>	0.0%	<b>5.6%</b>	<b>0.6%</b>	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.6%</b>	0.0%	<b>68.8%</b>	<b>16.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.4%</b>	<b>6.9%</b>	<b>65.5%</b>	<b>17.2%</b>	0.0%	<b>6.9%</b>	0.0%	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.3%</b>	0.0%	0.0%	<b>42.9%</b>	0.0%	0.0%	<b>14.3%</b>	0.0%	0.0%	<b>28.6%</b>	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>6.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>22.7%</b>	<b>57.6%</b>	0.0%	0.0%	<b>13.6%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>94.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>4.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	<b>6.9%</b>	<b>24.9%</b>	<b>0.6%</b>	<b>9.7%</b>	0.0%	<b>1.6%</b>	<b>0.9%</b>	<b>17.9%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>32.0%</b>	<b>4.4%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Green Container Glass	<b>3.4%</b>	<b>59.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>36.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Brown Container Glass	<b>20.8%</b>	<b>60.5%</b>	0.0%	<b>7.9%</b>	0.0%	0.0%	<b>2.1%</b>	<b>5.3%</b>	0.0%	0.0%	<b>3.3%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>18.8%</b>	<b>70.8%</b>	0.0%	0.0%	<b>8.3%</b>	<b>2.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Aluminum Cans	<b>34.8%</b>	<b>23.6%</b>	<b>0.8%</b>	<b>12.2%</b>	<b>0.3%</b>	<b>4.5%</b>	0.0%	<b>0.5%</b>	<b>0.6%</b>	<b>0.9%</b>	<b>8.3%</b>	<b>12.8%</b>	0.0%	0.0%	<b>0.6%</b>	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>1.2%</b>	0.0%	<b>2.6%</b>	0.0%	<b>0.7%</b>	<b>5.8%</b>	<b>4.0%</b>	<b>78.6%</b>	<b>5.0%</b>	0.0%	<b>2.2%</b>	0.0%	<b>100.0%</b>
<b>Total</b>	<b>10.5%</b>	<b>12.6%</b>	<b>3.1%</b>	<b>12.2%</b>	<b>0.8%</b>	<b>2.0%</b>	<b>1.2%</b>	<b>6.5%</b>	<b>8.1%</b>	<b>3.7%</b>	<b>27.7%</b>	<b>10.4%</b>	0.0%	<b>0.8%</b>	<b>0.2%</b>	<b>100.0%</b>

**Exhibit 27b Brooklyn Composition of Bottles, Cans and Cartons in Refuse Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>
#1 PET Clear/Green Bottles	<b>0.1%</b>	0.0%	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.8%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Clear Container Glass	<b>0.1%</b>	<b>0.1%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
Green Container Glass	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Other Color Container Glass	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
<b>Total</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>1.0%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>3.7%</b>

**Exhibit 27b Brooklyn Composition of Bottles, Cans and Cartons in Refuse Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	652	0	45	0	199	841	378	84	11	0	0	3	2,212
#1 PET Clear/Green Bottles	1,215	0	1,450	781	299	423	0	252	87	498	753	535	0	0	42	6,334
#1 PET Other Color Bottles	22	0	6	266	0	14	0	3	81	17	17	129	0	0	20	574
#2 HDPE Natural Bottles	0	0	98	185	0	6	0	0	935	50	554	313	14	25	50	2,231
#2 HDPE Pigmented Bottles	0	0	0	8	3	6	0	0	90	0	274	1,008	11	39	11	1,450
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	11	14	0	0	0	25
#4 LDPE/LLDPE Bottles	0	0	0	3	0	0	0	0	0	0	6	6	0	0	3	17
#5 PP Rigid Bottles	0	0	0	17	0	3	0	0	14	0	147	129	0	3	11	323
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	17
#7 Other Bottles	0	0	0	0	0	0	0	0	8	8	20	14	0	0	0	50
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	17
Unlabeled Plastic Bottles	0	0	0	3	0	0	0	0	0	0	34	81	0	8	42	168
BioPlastic Bottles	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Film Plastic: Food/Drink Pouches	0	0	0	333	0	3	0	0	0	0	3	20	0	0	3	361
Clear Container Glass	526	1,089	0	1,167	0	50	588	1,231	0	123	2,340	249	0	0	0	7,364
Green Container Glass	123	465	42	20	0	0	456	56	0	0	176	311	0	0	45	1,693
Brown Container Glass	98	848	0	67	0	0	0	0	0	0	182	316	0	0	0	1,511
Other Color Container Glass	0	73	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Aluminum Cans	574	302	11	218	11	55	0	0	0	28	355	232	0	0	0	1,787
Steel/Tin Food Cans	0	0	0	57	0	62	0	0	266	207	3,233	495	0	0	0	4,319
<b>Total</b>	<b>2,558</b>	<b>2,776</b>	<b>1,606</b>	<b>3,801</b>	<b>313</b>	<b>665</b>	<b>1,044</b>	<b>1,741</b>	<b>2,321</b>	<b>1,310</b>	<b>8,188</b>	<b>3,879</b>	<b>25</b>	<b>76</b>	<b>229</b>	<b>30,533</b>

**Exhibit 27b Breakdown of Container Type for each Product Type (Refuse - Brooklyn) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	17.2%	0.0%	6.7%	0.0%	11.4%	36.2%	28.8%	1.0%	0.3%	0.0%	0.0%	1.2%	7.2%
#1 PET Clear/Green Bottles	47.5%	0.0%	90.2%	20.5%	95.5%	63.6%	0.0%	14.5%	3.7%	38.0%	9.2%	13.8%	0.0%	0.0%	18.3%	20.7%
#1 PET Other Color Bottles	0.9%	0.0%	0.3%	7.0%	0.0%	2.1%	0.0%	0.2%	3.5%	1.3%	0.2%	3.3%	0.0%	0.0%	8.5%	1.9%
#2 HDPE Natural Bottles	0.0%	0.0%	6.1%	4.9%	0.0%	0.8%	0.0%	0.0%	40.3%	3.8%	6.8%	8.1%	55.6%	33.3%	22.0%	7.3%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.2%	0.9%	0.8%	0.0%	0.0%	3.9%	0.0%	3.3%	26.0%	44.4%	51.9%	4.9%	4.7%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.4%	0.0%	0.0%	0.0%	0.1%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	1.2%	0.1%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.4%	0.0%	0.4%	0.0%	0.0%	0.6%	0.0%	1.8%	3.3%	0.0%	3.7%	4.9%	1.1%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.1%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.6%	0.2%	0.4%	0.0%	0.0%	0.0%	0.2%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	2.1%	0.0%	11.1%	18.3%	0.5%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	8.8%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	1.2%	1.2%
Clear Container Glass	20.6%	39.2%	0.0%	30.7%	0.0%	7.6%	56.3%	70.7%	0.0%	9.4%	28.6%	6.4%	0.0%	0.0%	0.0%	24.1%
Green Container Glass	4.8%	16.7%	2.6%	0.5%	0.0%	0.0%	43.7%	3.2%	0.0%	0.0%	2.2%	8.0%	0.0%	0.0%	19.5%	5.5%
Brown Container Glass	3.8%	30.5%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	8.2%	0.0%	0.0%	0.0%	4.9%
Other Color Container Glass	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Aluminum Cans	22.4%	10.9%	0.7%	5.7%	3.6%	8.2%	0.0%	0.0%	0.0%	2.1%	4.3%	6.0%	0.0%	0.0%	0.0%	5.9%
Steel/Tin Food Cans	0.0%	0.0%	0.0%	1.5%	0.0%	9.3%	0.0%	0.0%	11.5%	15.8%	39.5%	12.8%	0.0%	0.0%	0.0%	14.1%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 27b Breakdown of Product Type for each Container Type (Refuse - Brooklyn) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	29.5%	0.0%	2.0%	0.0%	9.0%	38.0%	17.1%	3.8%	0.5%	0.0%	0.0%	0.1%	100.0%
#1 PET Clear/Green Bottles	19.2%	0.0%	22.9%	12.3%	4.7%	6.7%	0.0%	4.0%	1.4%	7.9%	11.9%	8.4%	0.0%	0.0%	0.7%	100.0%
#1 PET Other Color Bottles	3.9%	0.0%	1.0%	46.3%	0.0%	2.4%	0.0%	0.5%	14.1%	2.9%	2.9%	22.4%	0.0%	0.0%	3.4%	100.0%
#2 HDPE Natural Bottles	0.0%	0.0%	4.4%	8.3%	0.0%	0.3%	0.0%	0.0%	41.9%	2.3%	24.8%	14.1%	0.6%	1.1%	2.3%	100.0%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.6%	0.2%	0.4%	0.0%	0.0%	6.2%	0.0%	18.9%	69.5%	0.8%	2.7%	0.8%	100.0%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.4%	55.6%	0.0%	0.0%	0.0%	100.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	0.0%	0.0%	16.7%	100.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	5.2%	0.0%	0.9%	0.0%	0.0%	4.3%	0.0%	45.5%	39.8%	0.0%	0.9%	3.5%	100.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	16.7%	38.9%	27.8%	0.0%	0.0%	0.0%	100.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	48.3%	0.0%	5.0%	25.0%	100.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	92.2%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.8%	5.4%	0.0%	0.0%	0.8%	100.0%
Clear Container Glass	7.1%	14.8%	0.0%	15.8%	0.0%	0.7%	8.0%	16.7%	0.0%	1.7%	31.8%	3.4%	0.0%	0.0%	0.0%	100.0%
Green Container Glass	7.3%	27.4%	2.5%	1.2%	0.0%	0.0%	26.9%	3.3%	0.0%	0.0%	10.4%	18.3%	0.0%	0.0%	2.6%	100.0%
Brown Container Glass	6.5%	56.1%	0.0%	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.0%	20.9%	0.0%	0.0%	0.0%	100.0%
Other Color Container Glass	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Aluminum Cans	32.1%	16.9%	0.6%	12.2%	0.6%	3.1%	0.0%	0.0%	0.0%	1.6%	19.9%	13.0%	0.0%	0.0%	0.0%	100.0%
Steel/Tin Food Cans	0.0%	0.0%	0.0%	1.3%	0.0%	1.4%	0.0%	0.0%	6.2%	4.8%	74.8%	11.5%	0.0%	0.0%	0.0%	100.0%
<b>Total</b>	<b>8.4%</b>	<b>9.1%</b>	<b>5.3%</b>	<b>12.4%</b>	<b>1.0%</b>	<b>2.2%</b>	<b>3.4%</b>	<b>5.7%</b>	<b>7.6%</b>	<b>4.3%</b>	<b>26.8%</b>	<b>12.7%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.8%</b>	<b>100.0%</b>



**Exhibit 27c Manhattan Composition of Bottles, Cans and Cartons in Refuse Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
#1 PET Clear/Green Bottles	<b>0.1%</b>	0.0%	<b>0.2%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.9%</b>
#1 PET Other Color Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Clear Container Glass	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.9%</b>
Green Container Glass	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Other Color Container Glass	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
<b>Total</b>	<b>0.4%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>1.0%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>4.3%</b>

**Exhibit 27c Manhattan Composition of Bottles, Cans and Cartons in Refuse Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>182</b>	<b>2</b>	<b>45</b>	0	<b>26</b>	<b>735</b>	<b>192</b>	<b>109</b>	0	0	0	0	<b>1,291</b>
#1 PET Clear/Green Bottles	<b>553</b>	0	<b>1,050</b>	<b>473</b>	<b>246</b>	<b>220</b>	0	<b>50</b>	<b>71</b>	<b>262</b>	<b>454</b>	<b>603</b>	0	0	<b>83</b>	<b>4,065</b>
#1 PET Other Color Bottles	0	0	<b>24</b>	<b>102</b>	0	<b>14</b>	0	<b>5</b>	<b>9</b>	<b>12</b>	<b>33</b>	<b>175</b>	0	0	<b>5</b>	<b>378</b>
#2 HDPE Natural Bottles	0	0	<b>64</b>	<b>35</b>	0	<b>2</b>	0	0	<b>369</b>	<b>45</b>	<b>144</b>	<b>359</b>	0	0	<b>17</b>	<b>1,036</b>
#2 HDPE Pigmented Bottles	0	0	0	<b>12</b>	<b>5</b>	<b>9</b>	0	0	<b>35</b>	<b>5</b>	<b>274</b>	<b>972</b>	<b>2</b>	<b>24</b>	0	<b>1,338</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	<b>2</b>	0	0	0	0	<b>2</b>
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>7</b>	0	0	0	<b>7</b>
#5 PP Rigid Bottles	0	0	0	<b>2</b>	0	<b>5</b>	0	0	<b>5</b>	0	<b>59</b>	<b>24</b>	0	0	<b>14</b>	<b>109</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	<b>12</b>	<b>12</b>	0	0	0	<b>2</b>	0	<b>7</b>	<b>28</b>	0	0	<b>9</b>	<b>71</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unlabeled Plastic Bottles	0	0	0	0	0	0	0	0	0	0	<b>2</b>	<b>194</b>	0	0	<b>7</b>	<b>203</b>
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>26</b>	0	0	0	<b>26</b>
Film Plastic: Food/Drink Pouches	0	0	0	<b>80</b>	0	0	0	0	0	<b>5</b>	<b>26</b>	<b>2</b>	0	0	<b>7</b>	<b>121</b>
Clear Container Glass	<b>166</b>	<b>234</b>	<b>43</b>	<b>612</b>	0	<b>251</b>	<b>305</b>	<b>799</b>	0	<b>69</b>	<b>1,260</b>	<b>76</b>	0	0	<b>59</b>	<b>3,873</b>
Green Container Glass	<b>125</b>	<b>298</b>	<b>567</b>	0	0	0	<b>700</b>	0	0	0	0	0	0	0	0	<b>1,691</b>
Brown Container Glass	<b>168</b>	<b>622</b>	0	0	0	0	<b>104</b>	<b>71</b>	0	0	<b>28</b>	<b>21</b>	0	0	0	<b>1,014</b>
Other Color Container Glass	<b>28</b>	0	0	0	0	0	0	0	0	0	0	<b>69</b>	0	0	0	<b>97</b>
Aluminum Cans	<b>584</b>	<b>149</b>	<b>2</b>	<b>69</b>	<b>12</b>	<b>67</b>	0	<b>2</b>	<b>14</b>	<b>21</b>	<b>135</b>	<b>161</b>	0	0	0	<b>1,217</b>
Steel/Tin Food Cans	0	0	0	<b>61</b>	0	<b>17</b>	0	0	<b>109</b>	<b>57</b>	<b>1,681</b>	<b>303</b>	0	0	0	<b>2,227</b>
<b>Total</b>	<b>1,624</b>	<b>1,303</b>	<b>1,750</b>	<b>1,641</b>	<b>277</b>	<b>630</b>	<b>1,109</b>	<b>953</b>	<b>1,350</b>	<b>667</b>	<b>4,216</b>	<b>3,020</b>	<b>2</b>	<b>24</b>	<b>201</b>	<b>18,766</b>

**Exhibit 27c Breakdown of Container Type for each Product Type (Refuse - Manhattan) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	11.1%	0.9%	7.1%	0.0%	2.7%	54.5%	28.7%	2.6%	0.0%	0.0%	0.0%	0.0%	6.9%
#1 PET Clear/Green Bottles	<b>34.1%</b>	0.0%	<b>60.0%</b>	<b>28.8%</b>	<b>88.9%</b>	<b>34.9%</b>	0.0%	5.2%	5.3%	39.4%	10.8%	20.0%	0.0%	0.0%	41.2%	21.7%
#1 PET Other Color Bottles	0.0%	0.0%	1.4%	6.2%	0.0%	2.3%	0.0%	0.5%	0.7%	1.8%	0.8%	5.8%	0.0%	0.0%	2.4%	2.0%
#2 HDPE Natural Bottles	0.0%	0.0%	3.6%	2.2%	0.0%	0.4%	0.0%	0.0%	27.3%	6.7%	3.4%	11.9%	0.0%	0.0%	8.2%	5.5%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.7%	1.7%	1.5%	0.0%	0.0%	2.6%	0.7%	6.5%	32.2%	100.0%	100.0%	0.0%	7.1%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.1%	0.0%	0.8%	0.0%	0.0%	0.4%	0.0%	1.4%	0.8%	0.0%	0.0%	7.1%	0.6%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.7%	4.3%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.9%	0.0%	0.0%	4.7%	0.4%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	6.4%	0.0%	0.0%	3.5%	1.1%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	4.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.6%	0.1%	0.0%	0.0%	3.5%	0.6%
Clear Container Glass	10.2%	18.0%	2.4%	37.3%	0.0%	39.8%	27.5%	83.9%	0.0%	10.3%	29.9%	2.5%	0.0%	0.0%	29.4%	20.6%
Green Container Glass	7.7%	22.9%	32.4%	0.0%	0.0%	0.0%	63.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.0%
Brown Container Glass	10.3%	47.7%	0.0%	0.0%	0.0%	0.0%	9.4%	7.4%	0.0%	0.0%	0.7%	0.7%	0.0%	0.0%	0.0%	5.4%
Other Color Container Glass	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%	0.0%	0.0%	0.0%	0.5%
Aluminum Cans	36.0%	11.4%	0.1%	4.2%	4.3%	10.7%	0.0%	0.2%	1.1%	3.2%	3.2%	5.3%	0.0%	0.0%	0.0%	6.5%
Steel/Tin Food Cans	0.0%	0.0%	0.0%	3.7%	0.0%	2.6%	0.0%	0.0%	8.1%	8.5%	39.9%	10.0%	0.0%	0.0%	0.0%	11.9%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 27c Breakdown of Product Type for each Container Type (Refuse - Manhattan) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	14.1%	0.2%	3.5%	0.0%	2.0%	57.0%	14.8%	8.4%	0.0%	0.0%	0.0%	0.0%	100.0%
#1 PET Clear/Green Bottles	13.6%	0.0%	25.8%	11.6%	6.1%	5.4%	0.0%	1.2%	1.7%	6.5%	11.2%	14.8%	0.0%	0.0%	2.0%	100.0%
#1 PET Other Color Bottles	0.0%	0.0%	6.2%	26.9%	0.0%	3.8%	0.0%	1.3%	2.5%	3.1%	8.8%	46.3%	0.0%	0.0%	1.3%	100.0%
#2 HDPE Natural Bottles	0.0%	0.0%	6.2%	3.4%	0.0%	0.2%	0.0%	0.0%	35.6%	4.3%	13.9%	34.7%	0.0%	0.0%	1.6%	100.0%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.9%	0.4%	0.7%	0.0%	0.0%	2.7%	0.4%	20.5%	72.6%	0.2%	1.8%	0.0%	100.0%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	2.2%	0.0%	4.3%	0.0%	0.0%	4.3%	0.0%	54.3%	21.7%	0.0%	0.0%	13.0%	100.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	16.7%	16.7%	0.0%	0.0%	0.0%	3.3%	0.0%	10.0%	40.0%	0.0%	0.0%	13.3%	100.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	95.3%	0.0%	0.0%	3.5%	100.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	3.9%	21.6%	2.0%	0.0%	0.0%	5.9%	100.0%
Clear Container Glass	4.3%	6.0%	1.1%	15.8%	0.0%	6.5%	7.9%	20.6%	0.0%	1.8%	32.5%	2.0%	0.0%	0.0%	1.5%	100.0%
Green Container Glass	7.4%	17.6%	33.6%	0.0%	0.0%	0.0%	41.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Brown Container Glass	16.6%	61.3%	0.0%	0.0%	0.0%	0.0%	10.3%	7.0%	0.0%	0.0%	2.8%	2.1%	0.0%	0.0%	0.0%	100.0%
Other Color Container Glass	29.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	70.7%	0.0%	0.0%	0.0%	100.0%
Aluminum Cans	48.0%	12.2%	0.2%	5.6%	1.0%	5.5%	0.0%	0.2%	1.2%	1.7%	11.1%	13.3%	0.0%	0.0%	0.0%	100.0%
Steel/Tin Food Cans	0.0%	0.0%	0.0%	2.8%	0.0%	0.7%	0.0%	0.0%	4.9%	2.5%	75.5%	13.6%	0.0%	0.0%	0.0%	100.0%
<b>Total</b>	<b>8.7%</b>	<b>6.9%</b>	<b>9.3%</b>	<b>8.7%</b>	<b>1.5%</b>	<b>3.4%</b>	<b>5.9%</b>	<b>5.1%</b>	<b>7.2%</b>	<b>3.6%</b>	<b>22.5%</b>	<b>16.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>1.1%</b>	<b>100.0%</b>

**Exhibit 27d Queens Composition of Bottles, Cans and Cartons in Refuse Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
#1 PET Clear/Green Bottles	<b>0.1%</b>	0.0%	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.7%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.2%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.8%</b>
Green Container Glass	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
<b>Total</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.9%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>3.1%</b>

**Exhibit 27d Queens Composition of Bottles, Cans and Cartons in Refuse Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>604</b>	0	<b>35</b>	0	<b>58</b>	<b>484</b>	<b>166</b>	<b>15</b>	<b>15</b>	0	0	<b>67</b>	<b>1,445</b>
#1 PET Clear/Green Bottles	<b>905</b>	0	<b>1,100</b>	<b>464</b>	<b>298</b>	<b>210</b>	<b>6</b>	<b>190</b>	<b>32</b>	<b>505</b>	<b>978</b>	<b>400</b>	0	<b>9</b>	<b>9</b>	<b>5,104</b>
#1 PET Other Color Bottles	<b>6</b>	<b>3</b>	<b>6</b>	<b>222</b>	0	<b>9</b>	0	<b>26</b>	<b>18</b>	0	<b>79</b>	<b>158</b>	0	0	<b>6</b>	<b>531</b>
#2 HDPE Natural Bottles	0	0	<b>93</b>	<b>152</b>	0	0	0	0	<b>350</b>	0	<b>268</b>	<b>359</b>	0	<b>12</b>	<b>3</b>	<b>1,237</b>
#2 HDPE Pigmented Bottles	0	0	0	<b>9</b>	<b>6</b>	0	0	0	<b>41</b>	<b>18</b>	<b>166</b>	<b>922</b>	<b>15</b>	<b>32</b>	0	<b>1,208</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	<b>3</b>	0	0	0	0	<b>3</b>
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	<b>18</b>	<b>3</b>	0	0	0	<b>20</b>
#5 PP Rigid Bottles	0	0	0	0	0	0	0	0	0	0	<b>207</b>	<b>76</b>	0	0	0	<b>283</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>6</b>	0	0	0	<b>6</b>
#7 Other Bottles	0	0	0	<b>20</b>	0	0	0	0	0	0	0	<b>58</b>	0	0	0	<b>79</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	0	0	0	0	0	0	0	<b>6</b>	<b>3</b>	0	0	0	<b>9</b>
Unlabeled Plastic Bottles	0	0	0	<b>3</b>	0	0	0	0	0	0	<b>26</b>	<b>137</b>	0	0	<b>26</b>	<b>193</b>
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	<b>242</b>	0	0	0	0	0	0	<b>12</b>	0	0	0	0	<b>254</b>
Clear Container Glass	<b>254</b>	<b>715</b>	0	<b>1,127</b>	0	<b>79</b>	<b>198</b>	<b>960</b>	0	<b>38</b>	<b>2,168</b>	<b>385</b>	0	0	<b>18</b>	<b>5,942</b>
Green Container Glass	<b>123</b>	<b>353</b>	<b>58</b>	<b>32</b>	0	0	<b>341</b>	<b>23</b>	0	0	<b>131</b>	0	0	0	0	<b>1,062</b>
Brown Container Glass	<b>158</b>	<b>412</b>	0	0	0	0	0	<b>76</b>	0	0	<b>41</b>	<b>15</b>	0	0	0	<b>700</b>
Other Color Container Glass	0	0	0	0	0	0	0	0	0	0	0	<b>35</b>	0	0	0	<b>35</b>
Aluminum Cans	<b>274</b>	<b>309</b>	0	<b>161</b>	<b>9</b>	<b>47</b>	0	0	0	<b>32</b>	<b>149</b>	<b>260</b>	0	0	0	<b>1,240</b>
Steel/Tin Food Cans	0	<b>41</b>	0	<b>6</b>	0	<b>90</b>	0	0	<b>128</b>	<b>61</b>	<b>1,900</b>	<b>511</b>	0	0	0	<b>2,738</b>
<b>Total</b>	<b>1,719</b>	<b>1,833</b>	<b>1,258</b>	<b>3,041</b>	<b>312</b>	<b>470</b>	<b>546</b>	<b>1,334</b>	<b>1,054</b>	<b>820</b>	<b>6,167</b>	<b>3,342</b>	<b>15</b>	<b>53</b>	<b>128</b>	<b>22,090</b>

**Exhibit 27d Breakdown of Container Type for each Product Type (Refuse - Queens) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>19.9%</b>	0.0%	<b>7.5%</b>	0.0%	<b>4.4%</b>	<b>46.0%</b>	<b>20.3%</b>	<b>0.2%</b>	<b>0.4%</b>	0.0%	0.0%	<b>52.3%</b>	<b>6.5%</b>
#1 PET Clear/Green Bottles	<b>52.6%</b>	0.0%	<b>87.5%</b>	<b>15.3%</b>	<b>95.3%</b>	<b>44.7%</b>	<b>1.1%</b>	<b>14.2%</b>	<b>3.0%</b>	<b>61.6%</b>	<b>15.9%</b>	<b>12.0%</b>	0.0%	<b>16.7%</b>	<b>6.8%</b>	<b>23.1%</b>
#1 PET Other Color Bottles	<b>0.3%</b>	<b>0.2%</b>	<b>0.5%</b>	<b>7.3%</b>	0.0%	<b>1.9%</b>	0.0%	<b>2.0%</b>	<b>1.7%</b>	0.0%	<b>1.3%</b>	<b>4.7%</b>	0.0%	0.0%	<b>4.5%</b>	<b>2.4%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>7.4%</b>	<b>5.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>33.2%</b>	0.0%	<b>4.4%</b>	<b>10.7%</b>	0.0%	<b>22.2%</b>	<b>2.3%</b>	<b>5.6%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>1.9%</b>	0.0%	0.0%	0.0%	<b>3.9%</b>	<b>2.1%</b>	<b>2.7%</b>	<b>27.6%</b>	<b>100.0%</b>	<b>61.1%</b>	0.0%	<b>5.5%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.4%</b>	<b>2.3%</b>	0.0%	0.0%	0.0%	<b>1.3%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>4.1%</b>	0.0%	0.0%	<b>20.5%</b>	<b>0.9%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>8.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>
Clear Container Glass	<b>14.8%</b>	<b>39.0%</b>	0.0%	<b>37.0%</b>	0.0%	<b>16.8%</b>	<b>36.4%</b>	<b>72.0%</b>	0.0%	<b>4.6%</b>	<b>35.2%</b>	<b>11.5%</b>	0.0%	0.0%	<b>13.6%</b>	<b>26.9%</b>
Green Container Glass	<b>7.1%</b>	<b>19.3%</b>	<b>4.6%</b>	<b>1.1%</b>	0.0%	0.0%	<b>62.6%</b>	<b>1.8%</b>	0.0%	0.0%	<b>2.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>4.8%</b>
Brown Container Glass	<b>9.2%</b>	<b>22.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.7%</b>	0.0%	0.0%	<b>0.7%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>3.2%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Aluminum Cans	<b>16.0%</b>	<b>16.9%</b>	0.0%	<b>5.3%</b>	<b>2.8%</b>	<b>9.9%</b>	0.0%	0.0%	0.0%	<b>3.9%</b>	<b>2.4%</b>	<b>7.8%</b>	0.0%	0.0%	0.0%	<b>5.6%</b>
Steel/Tin Food Cans	0.0%	<b>2.2%</b>	0.0%	<b>0.2%</b>	0.0%	<b>19.3%</b>	0.0%	0.0%	<b>12.2%</b>	<b>7.5%</b>	<b>30.8%</b>	<b>15.3%</b>	0.0%	0.0%	0.0%	<b>12.4%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 27d Breakdown of Product Type for each Container Type (Refuse - Queens) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>41.8%</b>	0.0%	<b>2.4%</b>	0.0%	<b>4.0%</b>	<b>33.5%</b>	<b>11.5%</b>	<b>1.0%</b>	<b>1.0%</b>	0.0%	0.0%	<b>4.6%</b>	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>17.7%</b>	0.0%	<b>21.6%</b>	<b>9.1%</b>	<b>5.8%</b>	<b>4.1%</b>	<b>0.1%</b>	<b>3.7%</b>	<b>0.6%</b>	<b>9.9%</b>	<b>19.2%</b>	<b>7.8%</b>	0.0%	<b>0.2%</b>	<b>0.2%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>1.1%</b>	<b>0.5%</b>	<b>1.1%</b>	<b>41.8%</b>	0.0%	<b>1.6%</b>	0.0%	<b>4.9%</b>	<b>3.3%</b>	0.0%	<b>14.8%</b>	<b>29.7%</b>	0.0%	0.0%	<b>1.1%</b>	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>7.5%</b>	<b>12.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>28.3%</b>	0.0%	<b>21.7%</b>	<b>29.0%</b>	0.0%	<b>0.9%</b>	<b>0.2%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>3.4%</b>	<b>1.4%</b>	<b>13.8%</b>	<b>76.3%</b>	<b>1.2%</b>	<b>2.7%</b>	0.0%	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>85.7%</b>	<b>14.3%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>73.2%</b>	<b>26.8%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>25.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>74.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>66.7%</b>	<b>33.3%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>1.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>13.6%</b>	<b>71.2%</b>	0.0%	0.0%	<b>13.6%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>95.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	<b>4.3%</b>	<b>12.0%</b>	0.0%	<b>19.0%</b>	0.0%	<b>1.3%</b>	<b>3.3%</b>	<b>16.2%</b>	0.0%	<b>0.6%</b>	<b>36.5%</b>	<b>6.5%</b>	0.0%	0.0%	<b>0.3%</b>	<b>100.0%</b>
Green Container Glass	<b>11.5%</b>	<b>33.2%</b>	<b>5.5%</b>	<b>3.0%</b>	0.0%	0.0%	<b>32.1%</b>	<b>2.2%</b>	0.0%	0.0%	<b>12.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Brown Container Glass	<b>22.5%</b>	<b>58.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>10.8%</b>	0.0%	0.0%	<b>5.8%</b>	<b>2.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Aluminum Cans	<b>22.1%</b>	<b>24.9%</b>	0.0%	<b>12.9%</b>	<b>0.7%</b>	<b>3.8%</b>	0.0%	0.0%	0.0%	<b>2.6%</b>	<b>12.0%</b>	<b>20.9%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	<b>1.5%</b>	0.0%	<b>0.2%</b>	0.0%	<b>3.3%</b>	0.0%	0.0%	<b>4.7%</b>	<b>2.2%</b>	<b>69.4%</b>	<b>18.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>	<b>7.8%</b>	<b>8.3%</b>	<b>5.7%</b>	<b>13.8%</b>	<b>1.4%</b>	<b>2.1%</b>	<b>2.5%</b>	<b>6.0%</b>	<b>4.8%</b>	<b>3.7%</b>	<b>27.9%</b>	<b>15.1%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.6%</b>	<b>100.0%</b>

**Exhibit 27e Staten Island Composition of Bottles, Cans and Cartons in Refuse Stream**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
#1 PET Clear/Green Bottles	<b>0.1%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.7%</b>
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Clear Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.7%</b>
Green Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
<b>Total</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.9%</b>	<b>0.5%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>2.8%</b>

**Exhibit 27e Staten Island Composition of Bottles, Cans and Cartons in Refuse Stream - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>104</b>	<b>1</b>	<b>5</b>	0	0	<b>111</b>	<b>35</b>	<b>23</b>	<b>3</b>	0	0	0	<b>283</b>
#1 PET Clear/Green Bottles	<b>211</b>	0	<b>279</b>	<b>93</b>	<b>80</b>	<b>27</b>	0	<b>3</b>	<b>16</b>	<b>57</b>	<b>283</b>	<b>167</b>	0	<b>3</b>	<b>4</b>	<b>1,224</b>
#1 PET Other Color Bottles	0	0	0	<b>46</b>	<b>1</b>	0	0	0	0	0	<b>12</b>	<b>122</b>	0	0	<b>3</b>	<b>184</b>
#2 HDPE Natural Bottles	0	0	<b>20</b>	<b>31</b>	0	<b>4</b>	0	0	<b>115</b>	<b>9</b>	<b>31</b>	<b>88</b>	0	0	<b>3</b>	<b>302</b>
#2 HDPE Pigmented Bottles	0	0	0	<b>1</b>	0	0	0	0	<b>7</b>	<b>1</b>	<b>39</b>	<b>249</b>	0	<b>4</b>	<b>1</b>	<b>302</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	<b>7</b>	0	0	0	<b>4</b>	<b>11</b>
#4 LDPE/LLDPE Bottles	0	0	0	<b>1</b>	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>
#5 PP Rigid Bottles	0	0	0	<b>6</b>	0	0	0	0	<b>1</b>	0	<b>29</b>	<b>12</b>	0	0	0	<b>48</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	<b>6</b>	0	0	0	0	0	0	<b>13</b>	<b>2</b>	0	0	0	<b>21</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	<b>7</b>	0	0	0	0	0	0	0	0	0	0	<b>13</b>	<b>20</b>
Unlabeled Plastic Bottles	0	0	0	0	0	<b>1</b>	0	0	0	0	<b>10</b>	<b>30</b>	0	0	<b>15</b>	<b>56</b>
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>	0	0	0	<b>1</b>
Film Plastic: Food/Drink Pouches	0	0	0	<b>41</b>	0	0	0	0	0	<b>2</b>	<b>2</b>	<b>1</b>	0	0	<b>1</b>	<b>47</b>
Clear Container Glass	<b>52</b>	<b>179</b>	0	<b>350</b>	0	0	<b>65</b>	<b>110</b>	0	0	<b>559</b>	<b>37</b>	0	0	<b>25</b>	<b>1,378</b>
Green Container Glass	<b>7</b>	<b>104</b>	0	0	0	0	<b>60</b>	0	0	0	<b>18</b>	0	0	0	<b>3</b>	<b>192</b>
Brown Container Glass	<b>18</b>	<b>117</b>	0	0	0	0	<b>26</b>	0	0	0	<b>15</b>	0	0	0	0	<b>176</b>
Other Color Container Glass	0	0	0	0	0	0	0	0	0	0	0	<b>12</b>	0	0	0	<b>12</b>
Aluminum Cans	<b>85</b>	<b>105</b>	0	<b>32</b>	0	<b>11</b>	0	0	0	<b>2</b>	<b>83</b>	<b>72</b>	0	0	0	<b>391</b>
Steel/Tin Food Cans	0	0	0	<b>7</b>	0	0	0	0	<b>19</b>	<b>6</b>	<b>468</b>	<b>74</b>	0	0	0	<b>574</b>
<b>Total</b>	<b>374</b>	<b>506</b>	<b>299</b>	<b>726</b>	<b>82</b>	<b>48</b>	<b>151</b>	<b>113</b>	<b>270</b>	<b>112</b>	<b>1,593</b>	<b>871</b>	0	<b>7</b>	<b>72</b>	<b>5,224</b>

**Exhibit 27e Breakdown of Container Type for each Product Type(Refuse - Staten Island) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>14.4%</b>	<b>1.2%</b>	<b>10.4%</b>	0.0%	0.0%	<b>41.3%</b>	<b>31.3%</b>	<b>1.4%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>5.4%</b>
#1 PET Clear/Green Bottles	<b>56.6%</b>	0.0%	<b>93.3%</b>	<b>12.8%</b>	<b>97.6%</b>	<b>56.2%</b>	0.0%	<b>2.7%</b>	<b>5.9%</b>	<b>50.9%</b>	<b>17.7%</b>	<b>19.2%</b>	0.0%	<b>42.9%</b>	<b>5.6%</b>	<b>23.4%</b>
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	<b>6.4%</b>	<b>1.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>14.0%</b>	0.0%	0.0%	<b>4.2%</b>	<b>3.5%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>6.7%</b>	<b>4.3%</b>	0.0%	<b>8.3%</b>	0.0%	0.0%	<b>42.7%</b>	<b>8.0%</b>	<b>2.0%</b>	<b>10.1%</b>	0.0%	0.0%	<b>4.2%</b>	<b>5.8%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.6%</b>	<b>0.9%</b>	<b>2.5%</b>	<b>28.5%</b>	0.0%	<b>57.1%</b>	<b>1.4%</b>	<b>5.8%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>5.6%</b>	<b>0.2%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	<b>1.8%</b>	<b>1.4%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>18.1%</b>	<b>0.4%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>3.5%</b>	0.0%	0.0%	<b>20.8%</b>	<b>1.1%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>5.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.8%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	<b>1.4%</b>	<b>0.9%</b>
Clear Container Glass	<b>13.9%</b>	<b>35.4%</b>	0.0%	<b>48.2%</b>	0.0%	0.0%	<b>43.0%</b>	<b>97.3%</b>	0.0%	0.0%	<b>35.1%</b>	<b>4.3%</b>	0.0%	0.0%	<b>34.7%</b>	<b>26.4%</b>
Green Container Glass	<b>1.9%</b>	<b>20.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>39.7%</b>	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>4.2%</b>	<b>3.7%</b>
Brown Container Glass	<b>4.8%</b>	<b>23.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>17.2%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>3.4%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Aluminum Cans	<b>22.8%</b>	<b>20.8%</b>	0.0%	<b>4.4%</b>	0.0%	<b>22.9%</b>	0.0%	0.0%	0.0%	<b>1.8%</b>	<b>5.2%</b>	<b>8.3%</b>	0.0%	0.0%	0.0%	<b>7.5%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>7.1%</b>	<b>5.4%</b>	<b>29.4%</b>	<b>8.5%</b>	0.0%	0.0%	0.0%	<b>11.0%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 27e Breakdown of Product Type for each Container Type (Refuse - Staten Island) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>36.9%</b>	<b>0.4%</b>	<b>1.8%</b>	0.0%	0.0%	<b>39.4%</b>	<b>12.4%</b>	<b>8.2%</b>	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>17.3%</b>	0.0%	<b>22.8%</b>	<b>7.6%</b>	<b>6.6%</b>	<b>2.2%</b>	0.0%	<b>0.2%</b>	<b>1.3%</b>	<b>4.7%</b>	<b>23.1%</b>	<b>13.7%</b>	0.0%	<b>0.2%</b>	<b>0.3%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	0.0%	0.0%	0.0%	<b>25.0%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.5%</b>	<b>66.3%</b>	0.0%	0.0%	<b>1.6%</b>	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>6.6%</b>	<b>10.3%</b>	0.0%	<b>1.3%</b>	0.0%	0.0%	<b>38.2%</b>	<b>3.0%</b>	<b>10.3%</b>	<b>29.2%</b>	0.0%	0.0%	<b>1.0%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>	<b>0.3%</b>	<b>13.0%</b>	<b>82.4%</b>	0.0%	<b>1.3%</b>	<b>0.3%</b>	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>63.6%</b>	0.0%	0.0%	0.0%	<b>36.4%</b>	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>12.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.1%</b>	0.0%	<b>60.4%</b>	<b>25.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>28.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>61.9%</b>	<b>9.5%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>35.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>65.0%</b>	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>17.9%</b>	<b>53.6%</b>	0.0%	0.0%	<b>26.8%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>87.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.3%</b>	<b>4.3%</b>	<b>2.1%</b>	0.0%	0.0%	<b>2.1%</b>	<b>100.0%</b>
Clear Container Glass	<b>3.8%</b>	<b>13.0%</b>	0.0%	<b>25.4%</b>	0.0%	0.0%	<b>4.7%</b>	<b>8.0%</b>	0.0%	0.0%	<b>40.6%</b>	<b>2.7%</b>	0.0%	0.0%	<b>1.8%</b>	<b>100.0%</b>
Green Container Glass	<b>3.6%</b>	<b>54.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>31.3%</b>	0.0%	0.0%	0.0%	<b>9.4%</b>	0.0%	0.0%	0.0%	<b>1.6%</b>	<b>100.0%</b>
Brown Container Glass	<b>10.2%</b>	<b>66.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>14.8%</b>	0.0%	0.0%	0.0%	<b>8.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Aluminum Cans	<b>21.8%</b>	<b>26.9%</b>	0.0%	<b>8.2%</b>	0.0%	<b>2.8%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>21.3%</b>	<b>18.5%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>1.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>3.3%</b>	<b>1.0%</b>	<b>81.5%</b>	<b>12.9%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>	<b>7.2%</b>	<b>9.7%</b>	<b>5.7%</b>	<b>13.9%</b>	<b>1.6%</b>	<b>0.9%</b>	<b>2.9%</b>	<b>2.2%</b>	<b>5.2%</b>	<b>2.1%</b>	<b>30.5%</b>	<b>16.7%</b>	0.0%	<b>0.1%</b>	<b>1.4%</b>	<b>100.0%</b>

**Exhibit 28a Bronx Composition of Bottles, Cans and Cartons in Aggregate**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	<b>0.0%</b>	0.0%	0.0%	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
#1 PET Clear/Green Bottles	<b>0.3%</b>	0.0%	<b>0.2%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.2%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.6%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>
#2 HDPE Natural Bottles	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.6%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.1%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	<b>0.3%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>2.0%</b>
Green Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>
Brown Container Glass	<b>0.1%</b>	<b>0.3%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
Other Color Container Glass	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>1.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.2%</b>
<b>Total</b>	<b>0.6%</b>	<b>0.9%</b>	<b>0.3%</b>	<b>1.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>0.3%</b>	<b>2.2%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>8.0%</b>

**Exhibit 28a Bronx Composition of Bottles, Cans and Cartons in Aggregate - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	2	0	0	1,002	5	65	0	250	889	270	134	20	0	0	0	2,637
#1 PET Clear/Green Bottles	1,412	0	837	1,329	382	172	16	149	81	1,019	1,308	827	0	0	20	7,553
#1 PET Other Color Bottles	12	0	66	443	1	6	8	5	166	23	44	181	9	9	3	976
#2 HDPE Natural Bottles	15	0	341	255	0	0	0	1	1,463	43	314	453	0	23	9	2,917
#2 HDPE Pigmented Bottles	0	0	0	17	1	14	0	7	166	27	369	1,622	4	99	12	2,338
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	15	2	0	0	0	17
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4
#5 PP Rigid Bottles	0	0	0	0	0	0	0	0	22	0	144	35	0	0	0	200
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	14	10	0	0	0	2	10	49	16	0	5	4	109
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	20	0	3	0	0	7	4	0	2	0	0	5	41
Unlabeled Plastic Bottles	0	0	0	9	0	0	0	0	0	0	49	118	4	0	25	204
BioPlastic Bottles	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Film Plastic: Food/Drink Pouches	0	0	0	225	0	0	0	1	0	2	11	0	0	0	0	239
Clear Container Glass	456	1,687	34	1,181	0	131	536	1,964	34	39	3,074	352	0	0	61	9,549
Green Container Glass	82	600	0	3	0	8	814	68	0	0	19	9	0	0	7	1,611
Brown Container Glass	369	1,572	0	215	0	0	95	123	0	0	91	28	0	0	0	2,494
Other Color Container Glass	0	4	8	2	0	0	41	112	0	0	9	10	0	0	0	186
Aluminum Cans	567	384	13	234	6	82	0	8	10	19	155	247	0	0	9	1,734
Steel/Tin Food Cans	0	12	0	80	0	146	0	25	383	214	4,779	234	0	85	1	5,959
<b>Total</b>	<b>2,915</b>	<b>4,259</b>	<b>1,299</b>	<b>5,053</b>	<b>405</b>	<b>627</b>	<b>1,510</b>	<b>2,713</b>	<b>3,223</b>	<b>1,671</b>	<b>10,567</b>	<b>4,156</b>	<b>17</b>	<b>220</b>	<b>155</b>	<b>38,790</b>

**Exhibit 28a Breakdown of Container Type for each Product Type (Aggregate - Bronx) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.1%	0.0%	0.0%	19.8%	1.1%	10.4%	0.0%	9.2%	27.6%	16.2%	1.3%	0.5%	0.0%	0.0%	0.0%	6.8%
#1 PET Clear/Green Bottles	48.4%	0.0%	64.5%	26.3%	94.4%	27.4%	1.0%	5.5%	2.5%	61.0%	12.4%	19.9%	0.0%	0.0%	13.1%	19.5%
#1 PET Other Color Bottles	0.4%	0.0%	5.1%	8.8%	0.3%	0.9%	0.5%	0.2%	5.2%	1.4%	0.4%	4.4%	51.6%	4.2%	1.8%	2.5%
#2 HDPE Natural Bottles	0.5%	0.0%	26.2%	5.1%	0.0%	0.0%	0.0%	0.0%	45.4%	2.6%	3.0%	10.9%	1.6%	10.4%	5.6%	7.5%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.3%	0.3%	2.3%	0.0%	0.3%	5.1%	1.6%	3.5%	39.0%	24.2%	44.7%	7.7%	6.0%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	1.4%	0.8%	0.0%	0.0%	0.0%	0.5%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	0.3%	2.4%	0.0%	0.0%	0.0%	0.1%	0.6%	0.5%	0.4%	0.0%	2.1%	2.3%	0.3%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	0.4%	0.0%	0.5%	0.0%	0.0%	0.2%	0.2%	0.0%	0.1%	0.0%	0.0%	3.0%	0.1%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	2.8%	22.6%	0.0%	15.8%	0.5%
BioPlastic Bottles	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.6%
Clear Container Glass	15.7%	39.6%	2.6%	23.4%	0.0%	20.8%	35.5%	72.4%	1.1%	2.4%	29.1%	8.5%	0.0%	0.0%	39.2%	24.6%
Green Container Glass	2.8%	14.1%	0.0%	0.1%	0.0%	1.2%	53.9%	2.5%	0.0%	0.0%	0.2%	0.2%	0.0%	0.0%	4.7%	4.2%
Brown Container Glass	12.7%	36.9%	0.0%	4.3%	0.0%	0.0%	6.3%	4.5%	0.0%	0.0%	0.9%	0.7%	0.0%	0.0%	0.0%	6.4%
Other Color Container Glass	0.0%	0.1%	0.6%	0.0%	0.0%	0.0%	2.7%	4.1%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.5%
Aluminum Cans	19.4%	9.0%	1.0%	4.6%	1.5%	13.1%	0.0%	0.3%	0.3%	1.1%	1.5%	5.9%	0.0%	0.0%	6.1%	4.5%
Steel/Tin Food Cans	0.0%	0.3%	0.0%	1.6%	0.0%	23.3%	0.0%	0.9%	11.9%	12.8%	45.2%	5.6%	0.0%	38.7%	0.7%	15.4%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 28a Breakdown of Product Type for each Container Type (Aggregate - Bronx) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.1%	0.0%	0.0%	38.0%	0.2%	2.5%	0.0%	9.5%	33.7%	10.2%	5.1%	0.8%	0.0%	0.0%	0.0%	100.0%
#1 PET Clear/Green Bottles	18.7%	0.0%	11.1%	17.6%	5.1%	2.3%	0.2%	2.0%	1.1%	13.5%	17.3%	11.0%	0.0%	0.0%	0.3%	100.0%
#1 PET Other Color Bottles	1.2%	0.0%	6.8%	45.4%	0.1%	0.6%	0.8%	0.5%	17.0%	2.4%	4.5%	18.5%	0.9%	0.9%	0.3%	100.0%
#2 HDPE Natural Bottles	0.5%	0.0%	11.7%	8.8%	0.0%	0.0%	0.0%	0.0%	50.2%	1.5%	10.8%	15.5%	0.0%	0.8%	0.3%	100.0%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	0.7%	0.0%	0.6%	0.0%	0.3%	7.1%	1.1%	15.8%	69.4%	0.2%	4.2%	0.5%	100.0%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%	0.0%	100.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.6%	7.7%	0.0%	0.0%	0.0%	100.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.8%	0.0%	71.7%	17.5%	0.0%	0.0%	0.0%	100.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	12.5%	8.9%	0.0%	0.0%	0.0%	2.1%	9.0%	45.1%	14.8%	0.0%	4.2%	3.3%	100.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	50.2%	0.0%	7.0%	0.0%	0.0%	16.9%	8.9%	0.0%	5.6%	0.0%	0.0%	11.3%	100.0%
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	4.5%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	23.8%	57.7%	1.9%	0.0%	12.0%	100.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	94.0%	0.0%	0.0%	0.0%	0.2%	0.0%	1.0%	4.8%	0.0%	0.0%	0.0%	0.0%	100.0%
Clear Container Glass	4.8%	17.7%	0.4%	12.4%	0.0%	1.4%	5.6%	20.6%	0.4%	0.4%	32.2%	3.7%	0.0%	0.0%	0.6%	100.0%
Green Container Glass	5.1%	37.3%	0.0%	0.2%	0.0%	0.5%	50.5%	4.2%	0.0%	0.0%	1.2%	0.6%	0.0%	0.0%	0.5%	100.0%
Brown Container Glass	14.8%	63.1%	0.0%	8.6%	0.0%	0.0%	3.8%	4.9%	0.0%	0.0%	3.6%	1.1%	0.0%	0.0%	0.0%	100.0%
Other Color Container Glass	0.0%	2.2%	4.0%	1.0%	0.0%	0.0%	22.1%	60.2%	0.0%	0.0%	4.9%	5.4%	0.0%	0.0%	0.0%	100.0%
Aluminum Cans	32.7%	22.2%	0.8%	13.5%	0.3%	4.7%	0.0%	0.4%	0.6%	1.1%	8.9%	14.2%	0.0%	0.0%	0.5%	100.0%
Steel/Tin Food Cans	0.0%	0.2%	0.0%	1.3%	0.0%	2.5%	0.0%	0.4%	6.4%	3.6%	80.2%	3.9%	0.0%	1.4%	0.0%	100.0%
<b>Total</b>	<b>7.5%</b>	<b>11.0%</b>	<b>3.3%</b>	<b>13.0%</b>	<b>1.0%</b>	<b>1.6%</b>	<b>3.9%</b>	<b>7.0%</b>	<b>8.3%</b>	<b>4.3%</b>	<b>27.2%</b>	<b>10.7%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>100.0%</b>



**Exhibit 28b Brooklyn Composition of Bottles, Cans and Cartons in Aggregate**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>
#1 PET Clear/Green Bottles	<b>0.2%</b>	0.0%	<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.2%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Clear Container Glass	<b>0.1%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.3%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.9%</b>
Green Container Glass	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.4%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.6%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
Other Color Container Glass	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.8%</b>
<b>Total</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.3%</b>	<b>0.8%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>1.8%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>6.8%</b>

**Exhibit 28b Brooklyn Composition of Bottles, Cans and Cartons in Aggregate - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	1,315	1	83	0	240	1,462	632	180	29	0	0	25	3,967
#1 PET Clear/Green Bottles	1,630	0	1,872	1,851	700	554	0	353	152	1,560	1,501	1,124	0	0	103	11,401
#1 PET Other Color Bottles	38	9	8	509	2	17	1	7	89	25	92	263	0	0	20	1,080
#2 HDPE Natural Bottles	0	15	520	309	0	6	0	26	2,270	112	813	667	14	29	62	4,841
#2 HDPE Pigmented Bottles	0	0	0	15	3	7	0	1	214	107	584	2,619	11	48	14	3,623
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	1	16	29	0	0	5	52
#4 LDPE/LLDPE Bottles	0	0	0	4	0	0	0	0	0	0	10	10	0	0	3	26
#5 PP Rigid Bottles	0	0	0	27	0	3	0	0	23	0	327	172	0	3	23	577
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	4	22	0	0	0	26
#7 Other Bottles	0	0	0	13	0	0	0	0	9	9	59	29	0	0	1	121
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	101	0	0	0	0	0	2	0	0	0	0	0	103
Unlabeled Plastic Bottles	0	0	1	3	0	0	0	0	0	0	57	125	0	8	57	251
BioPlastic Bottles	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Film Plastic: Food/Drink Pouches	0	0	0	339	0	3	0	0	1	2	5	20	0	0	3	372
Clear Container Glass	1,105	1,577	33	2,470	0	288	1,814	3,617	32	773	6,039	474	0	0	207	18,429
Green Container Glass	535	992	48	24	0	0	3,648	189	0	0	269	315	0	0	45	6,065
Brown Container Glass	208	2,363	0	226	0	0	160	123	0	13	280	375	0	0	0	3,748
Other Color Container Glass	14	73	0	0	0	0	44	126	0	0	0	11	0	0	0	267
Aluminum Cans	662	367	14	326	11	88	0	0	6	43	496	470	0	0	4	2,487
Steel/Tin Food Cans	0	0	0	83	8	143	0	0	647	285	6,150	704	0	0	7	8,026
<b>Total</b>	<b>4,191</b>	<b>5,396</b>	<b>2,495</b>	<b>7,622</b>	<b>725</b>	<b>1,192</b>	<b>5,666</b>	<b>4,683</b>	<b>4,904</b>	<b>3,564</b>	<b>16,882</b>	<b>7,457</b>	<b>25</b>	<b>88</b>	<b>578</b>	<b>65,467</b>

**Exhibit 28b Breakdown of Container Type for each Product Type (Aggregate - Brooklyn) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	17.2%	0.1%	7.0%	0.0%	5.1%	29.8%	17.7%	1.1%	0.4%	0.0%	0.0%	4.3%	6.1%
#1 PET Clear/Green Bottles	<b>38.9%</b>	0.0%	<b>75.0%</b>	<b>24.3%</b>	<b>96.6%</b>	<b>46.5%</b>	0.0%	7.5%	3.1%	<b>43.8%</b>	8.9%	15.1%	0.0%	0.0%	17.8%	17.4%
#1 PET Other Color Bottles	<b>0.9%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>6.7%</b>	<b>0.2%</b>	<b>1.4%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>1.8%</b>	<b>0.7%</b>	<b>0.5%</b>	<b>3.5%</b>	0.0%	0.0%	3.5%	1.6%
#2 HDPE Natural Bottles	0.0%	<b>0.3%</b>	<b>20.8%</b>	<b>4.1%</b>	0.0%	<b>0.5%</b>	0.0%	<b>0.5%</b>	<b>46.3%</b>	<b>3.1%</b>	<b>4.8%</b>	<b>8.9%</b>	<b>55.6%</b>	<b>32.7%</b>	<b>10.7%</b>	<b>7.4%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.4%</b>	<b>0.6%</b>	0.0%	<b>0.0%</b>	<b>4.4%</b>	<b>3.0%</b>	<b>3.5%</b>	<b>35.1%</b>	<b>44.4%</b>	<b>54.6%</b>	<b>2.3%</b>	<b>5.5%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.4%	0.0%	0.0%	0.9%	0.1%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.5%	0.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>0.5%</b>	0.0%	1.9%	2.3%	0.0%	3.2%	4.0%	0.9%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.4%</b>	0.0%	0.0%	0.2%	0.2%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>1.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Unlabeled Plastic Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>1.7%</b>	0.0%	<b>9.6%</b>	<b>9.8%</b>	<b>0.4%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>4.5%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	0.5%	0.6%
Clear Container Glass	<b>26.4%</b>	<b>29.2%</b>	<b>1.3%</b>	<b>32.4%</b>	0.0%	<b>24.2%</b>	<b>32.0%</b>	<b>77.2%</b>	<b>0.7%</b>	<b>21.7%</b>	<b>35.8%</b>	<b>6.4%</b>	0.0%	0.0%	<b>35.8%</b>	<b>28.1%</b>
Green Container Glass	<b>12.8%</b>	<b>18.4%</b>	<b>1.9%</b>	<b>0.3%</b>	0.0%	0.0%	<b>64.4%</b>	<b>4.0%</b>	0.0%	0.0%	1.6%	4.2%	0.0%	0.0%	7.8%	9.3%
Brown Container Glass	<b>5.0%</b>	<b>43.8%</b>	0.0%	<b>3.0%</b>	0.0%	0.0%	<b>2.8%</b>	<b>2.6%</b>	0.0%	<b>0.4%</b>	1.7%	5.0%	0.0%	0.0%	0.0%	5.7%
Other Color Container Glass	<b>0.3%</b>	<b>1.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>2.7%</b>	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.4%
Aluminum Cans	<b>15.8%</b>	<b>6.8%</b>	<b>0.5%</b>	<b>4.3%</b>	<b>1.5%</b>	<b>7.4%</b>	0.0%	0.0%	<b>0.1%</b>	<b>1.2%</b>	<b>2.9%</b>	<b>6.3%</b>	0.0%	0.0%	0.6%	3.8%
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>1.1%</b>	<b>1.1%</b>	<b>12.0%</b>	0.0%	0.0%	<b>13.2%</b>	<b>8.0%</b>	<b>36.4%</b>	<b>9.4%</b>	0.0%	0.0%	1.2%	12.3%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 28b Breakdown of Product Type for each Container Type (Aggregate - Brooklyn) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	33.1%	0.0%	2.1%	0.0%	6.1%	36.9%	15.9%	4.5%	0.7%	0.0%	0.0%	0.6%	100.0%
#1 PET Clear/Green Bottles	<b>14.3%</b>	0.0%	<b>16.4%</b>	<b>16.2%</b>	<b>6.1%</b>	<b>4.9%</b>	0.0%	3.1%	1.3%	<b>13.7%</b>	<b>13.2%</b>	<b>9.9%</b>	0.0%	0.0%	0.9%	100.0%
#1 PET Other Color Bottles	<b>3.5%</b>	<b>0.9%</b>	<b>0.7%</b>	<b>47.1%</b>	<b>0.2%</b>	<b>1.6%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>8.2%</b>	<b>2.3%</b>	<b>8.6%</b>	<b>24.3%</b>	0.0%	0.0%	1.9%	100.0%
#2 HDPE Natural Bottles	0.0%	<b>0.3%</b>	<b>10.7%</b>	<b>6.4%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.5%</b>	<b>46.9%</b>	<b>2.3%</b>	<b>16.8%</b>	<b>13.8%</b>	<b>0.3%</b>	<b>0.6%</b>	<b>1.3%</b>	100.0%
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.1%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	<b>5.9%</b>	<b>3.0%</b>	<b>16.1%</b>	<b>72.3%</b>	<b>0.3%</b>	<b>1.3%</b>	<b>0.4%</b>	100.0%
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%	31.6%	56.1%	0.0%	0.0%	10.1%	100.0%
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>15.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>37.1%</b>	<b>37.1%</b>	0.0%	0.0%	<b>10.7%</b>	100.0%
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>4.6%</b>	0.0%	<b>0.5%</b>	0.0%	0.0%	<b>3.9%</b>	0.0%	<b>56.7%</b>	<b>29.8%</b>	0.0%	<b>0.5%</b>	<b>4.0%</b>	100.0%
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>13.7%</b>	<b>86.3%</b>	0.0%	0.0%	0.0%	100.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>10.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>7.4%</b>	<b>7.4%</b>	<b>49.2%</b>	<b>24.3%</b>	0.0%	0.0%	1.0%	100.0%
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>98.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Unlabeled Plastic Bottles	0.0%	0.0%	<b>0.2%</b>	<b>1.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>22.7%</b>	<b>50.0%</b>	0.0%	<b>3.4%</b>	<b>22.6%</b>	100.0%
BioPlastic Bottles	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>91.3%</b>	0.0%	<b>0.8%</b>	0.0%	0.0%	<b>0.2%</b>	<b>0.5%</b>	<b>1.2%</b>	<b>5.3%</b>	0.0%	0.0%	<b>0.8%</b>	100.0%
Clear Container Glass	<b>6.0%</b>	<b>8.6%</b>	<b>0.2%</b>	<b>13.4%</b>	0.0%	<b>1.6%</b>	<b>9.8%</b>	<b>19.6%</b>	<b>0.2%</b>	<b>4.2%</b>	<b>32.8%</b>	<b>2.6%</b>	0.0%	0.0%	1.1%	100.0%
Green Container Glass	<b>8.8%</b>	<b>16.4%</b>	<b>0.8%</b>	<b>3.4%</b>	0.0%	0.0%	<b>60.1%</b>	<b>3.1%</b>	0.0%	0.0%	4.4%	5.2%	0.0%	0.0%	0.7%	100.0%
Brown Container Glass	<b>5.6%</b>	<b>63.0%</b>	0.0%	<b>6.0%</b>	0.0%	0.0%	<b>4.3%</b>	<b>3.3%</b>	0.0%	<b>0.4%</b>	<b>7.5%</b>	<b>10.0%</b>	0.0%	0.0%	0.0%	100.0%
Other Color Container Glass	<b>5.3%</b>	<b>27.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>16.4%</b>	<b>47.1%</b>	0.0%	0.0%	0.0%	3.9%	0.0%	0.0%	0.0%	100.0%
Aluminum Cans	<b>26.6%</b>	<b>14.8%</b>	<b>0.5%</b>	<b>13.1%</b>	<b>0.5%</b>	<b>3.5%</b>	0.0%	0.0%	<b>0.2%</b>	<b>1.7%</b>	<b>20.0%</b>	<b>18.9%</b>	0.0%	0.0%	0.1%	100.0%
Steel/Tin Food Cans	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>0.1%</b>	<b>1.8%</b>	0.0%	0.0%	<b>8.1%</b>	<b>3.6%</b>	<b>76.6%</b>	<b>8.8%</b>	0.0%	0.0%	0.1%	100.0%
<b>Total</b>	<b>6.4%</b>	<b>8.2%</b>	<b>3.8%</b>	<b>11.6%</b>	<b>1.1%</b>	<b>1.8%</b>	<b>8.7%</b>	<b>7.2%</b>	<b>7.5%</b>	<b>5.4%</b>	<b>25.8%</b>	<b>11.4%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.9%</b>	<b>100.0%</b>

**Exhibit 28c Manhattan Composition of Bottles, Cans and Cartons in Aggregate**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
#1 PET Clear/Green Bottles	<b>0.1%</b>	0.0%	<b>0.3%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.2%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.2%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Clear Container Glass	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.6%</b>
Green Container Glass	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.9%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>1.3%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
Other Color Container Glass	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Aluminum Cans	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.8%</b>
<b>Total</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>1.2%</b>	<b>0.3%</b>	<b>0.5%</b>	<b>0.3%</b>	<b>1.5%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>7.1%</b>

**Exhibit 28c Manhattan Composition of Bottles, Cans and Cartons in Aggregate - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	<b>318</b>	<b>3</b>	<b>72</b>	<b>1</b>	<b>26</b>	<b>1,400</b>	<b>305</b>	<b>169</b>	<b>2</b>	0	0	0	<b>2,296</b>
#1 PET Clear/Green Bottles	<b>735</b>	0	<b>1,397</b>	<b>906</b>	<b>522</b>	<b>310</b>	<b>2</b>	<b>81</b>	<b>104</b>	<b>915</b>	<b>842</b>	<b>929</b>	0	0	<b>91</b>	<b>6,834</b>
#1 PET Other Color Bottles	<b>36</b>	0	<b>38</b>	<b>180</b>	<b>0</b>	<b>15</b>	<b>1</b>	<b>10</b>	<b>27</b>	<b>19</b>	<b>47</b>	<b>295</b>	0	0	<b>5</b>	<b>674</b>
#2 HDPE Natural Bottles	0	0	<b>333</b>	<b>100</b>	0	<b>5</b>	0	0	<b>990</b>	<b>83</b>	<b>210</b>	<b>503</b>	0	<b>5</b>	<b>20</b>	<b>2,249</b>
#2 HDPE Pigmented Bottles	0	0	0	<b>13</b>	<b>8</b>	<b>10</b>	0	0	<b>131</b>	<b>10</b>	<b>385</b>	<b>1,777</b>	<b>26</b>	<b>24</b>	<b>2</b>	<b>2,384</b>
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	<b>6</b>	<b>20</b>	0	0	<b>1</b>	<b>27</b>
#4 LDPE/LLDPE Bottles	0	0	0	0	0	0	0	0	0	0	<b>12</b>	<b>8</b>	0	0	0	<b>20</b>
#5 PP Rigid Bottles	0	0	0	<b>2</b>	0	<b>5</b>	0	0	<b>10</b>	0	<b>113</b>	<b>33</b>	0	0	<b>19</b>	<b>182</b>
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	<b>17</b>	<b>12</b>	<b>1</b>	0	0	<b>2</b>	<b>2</b>	<b>16</b>	<b>32</b>	0	0	<b>9</b>	<b>92</b>
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	<b>30</b>	0	<b>0</b>	0	0	0	0	<b>2</b>	<b>0</b>	0	0	0	<b>33</b>
Unlabeled Plastic Bottles	0	0	0	0	0	<b>0</b>	0	0	0	0	<b>12</b>	<b>233</b>	0	0	<b>12</b>	<b>258</b>
BioPlastic Bottles	0	0	0	<b>0</b>	0	0	0	0	0	0	0	<b>26</b>	0	0	0	<b>27</b>
Film Plastic: Food/Drink Pouches	0	0	0	<b>82</b>	0	0	0	0	0	<b>5</b>	<b>26</b>	<b>2</b>	0	0	<b>7</b>	<b>122</b>
Clear Container Glass	<b>470</b>	<b>437</b>	<b>43</b>	<b>1,181</b>	<b>7</b>	<b>417</b>	<b>1,286</b>	<b>1,524</b>	<b>40</b>	<b>115</b>	<b>2,730</b>	<b>229</b>	0	0	<b>99</b>	<b>8,578</b>
Green Container Glass	<b>558</b>	<b>665</b>	<b>596</b>	<b>11</b>	0	0	<b>4,824</b>	<b>70</b>	0	0	<b>168</b>	<b>49</b>	0	0	0	<b>6,942</b>
Brown Container Glass	<b>209</b>	<b>1,300</b>	0	<b>22</b>	0	<b>6</b>	<b>350</b>	<b>113</b>	0	<b>11</b>	<b>73</b>	<b>43</b>	0	0	0	<b>2,127</b>
Other Color Container Glass	<b>34</b>	<b>8</b>	0	0	0	0	<b>37</b>	0	0	0	0	<b>73</b>	0	0	<b>3</b>	<b>154</b>
Aluminum Cans	<b>684</b>	<b>174</b>	<b>2</b>	<b>105</b>	<b>12</b>	<b>80</b>	0	<b>17</b>	<b>14</b>	<b>34</b>	<b>235</b>	<b>294</b>	0	0	<b>2</b>	<b>1,652</b>
Steel/Tin Food Cans	0	<b>6</b>	0	<b>80</b>	<b>1</b>	<b>27</b>	0	0	<b>159</b>	<b>107</b>	<b>3,314</b>	<b>411</b>	0	0	<b>10</b>	<b>4,116</b>
<b>Total</b>	<b>2,725</b>	<b>2,590</b>	<b>2,410</b>	<b>3,048</b>	<b>565</b>	<b>950</b>	<b>6,502</b>	<b>1,841</b>	<b>2,877</b>	<b>1,607</b>	<b>8,362</b>	<b>4,957</b>	<b>26</b>	<b>29</b>	<b>279</b>	<b>38,767</b>

**Exhibit 28c Breakdown of Container Type for each Product Type (Aggregate - Manhattan) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>10.4%</b>	<b>0.6%</b>	<b>7.6%</b>	<b>0.0%</b>	<b>1.4%</b>	<b>48.7%</b>	<b>19.0%</b>	<b>2.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>5.9%</b>
#1 PET Clear/Green Bottles	<b>27.0%</b>	0.0%	<b>58.0%</b>	<b>29.7%</b>	<b>92.4%</b>	<b>32.7%</b>	<b>0.0%</b>	<b>4.4%</b>	<b>3.6%</b>	<b>56.9%</b>	<b>10.1%</b>	<b>18.7%</b>	0.0%	0.0%	<b>32.5%</b>	<b>17.6%</b>
#1 PET Other Color Bottles	<b>1.3%</b>	0.0%	<b>1.6%</b>	<b>5.9%</b>	<b>0.1%</b>	<b>1.6%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>0.9%</b>	<b>1.2%</b>	<b>0.6%</b>	<b>5.9%</b>	0.0%	0.0%	<b>1.8%</b>	<b>1.7%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>13.8%</b>	<b>3.3%</b>	0.0%	<b>0.5%</b>	0.0%	0.0%	<b>34.4%</b>	<b>5.2%</b>	<b>2.5%</b>	<b>10.1%</b>	0.0%	<b>18.0%</b>	<b>7.2%</b>	<b>5.8%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>1.3%</b>	<b>1.1%</b>	0.0%	0.0%	<b>4.5%</b>	<b>0.6%</b>	<b>4.6%</b>	<b>35.8%</b>	<b>100.0%</b>	<b>82.0%</b>	<b>0.6%</b>	<b>6.2%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.4%</b>	0.0%	0.0%	<b>0.3%</b>	<b>0.1%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.5%</b>	0.0%	0.0%	<b>0.3%</b>	0.0%	<b>1.4%</b>	<b>0.7%</b>	0.0%	0.0%	<b>6.7%</b>	<b>0.5%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>2.1%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.6%</b>	0.0%	0.0%	<b>3.4%</b>	<b>0.2%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>4.7%</b>	0.0%	0.0%	<b>4.4%</b>	<b>0.7%</b>
BioPlastic Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>2.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	<b>2.5%</b>	<b>0.3%</b>
Clear Container Glass	<b>17.2%</b>	<b>16.9%</b>	<b>1.8%</b>	<b>38.7%</b>	<b>1.3%</b>	<b>43.9%</b>	<b>19.8%</b>	<b>82.8%</b>	<b>1.4%</b>	<b>7.2%</b>	<b>32.7%</b>	<b>4.6%</b>	0.0%	0.0%	<b>35.3%</b>	<b>22.1%</b>
Green Container Glass	<b>20.5%</b>	<b>25.7%</b>	<b>24.7%</b>	<b>0.4%</b>	0.0%	0.0%	<b>74.2%</b>	<b>3.8%</b>	0.0%	0.0%	<b>2.0%</b>	<b>1.0%</b>	0.0%	0.0%	0.0%	<b>17.9%</b>
Brown Container Glass	<b>7.7%</b>	<b>50.2%</b>	0.0%	<b>0.7%</b>	0.0%	<b>0.6%</b>	<b>5.4%</b>	<b>6.2%</b>	0.0%	<b>0.7%</b>	<b>0.9%</b>	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>5.5%</b>
Other Color Container Glass	<b>1.2%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.5%</b>	0.0%	0.0%	<b>1.1%</b>	<b>0.4%</b>
Aluminum Cans	<b>25.1%</b>	<b>6.7%</b>	<b>0.1%</b>	<b>3.5%</b>	<b>2.2%</b>	<b>8.4%</b>	0.0%	<b>0.9%</b>	<b>0.5%</b>	<b>2.1%</b>	<b>2.8%</b>	<b>5.9%</b>	0.0%	0.0%	<b>0.6%</b>	<b>4.3%</b>
Steel/Tin Food Cans	0.0%	<b>0.2%</b>	0.0%	<b>2.6%</b>	<b>0.1%</b>	<b>2.8%</b>	0.0%	0.0%	<b>5.5%</b>	<b>6.7%</b>	<b>39.6%</b>	<b>8.3%</b>	0.0%	0.0%	<b>3.6%</b>	<b>10.6%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 28c Breakdown of Product Type for each Container Type (Aggregate - Manhattan) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>13.8%</b>	<b>0.1%</b>	<b>3.2%</b>	<b>0.0%</b>	<b>1.1%</b>	<b>61.0%</b>	<b>13.3%</b>	<b>7.4%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>10.8%</b>	0.0%	<b>20.4%</b>	<b>13.3%</b>	<b>7.6%</b>	<b>4.5%</b>	<b>0.0%</b>	<b>1.2%</b>	<b>1.5%</b>	<b>13.4%</b>	<b>12.3%</b>	<b>13.6%</b>	0.0%	0.0%	<b>1.3%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>5.3%</b>	0.0%	<b>5.6%</b>	<b>26.7%</b>	<b>0.1%</b>	<b>2.3%</b>	<b>0.2%</b>	<b>1.4%</b>	<b>4.0%</b>	<b>2.9%</b>	<b>7.0%</b>	<b>43.8%</b>	0.0%	0.0%	<b>0.8%</b>	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>14.8%</b>	<b>4.5%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>44.0%</b>	<b>3.7%</b>	<b>9.3%</b>	<b>22.3%</b>	0.0%	<b>0.2%</b>	<b>0.9%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.3%</b>	<b>0.4%</b>	0.0%	0.0%	<b>5.5%</b>	<b>0.4%</b>	<b>16.2%</b>	<b>74.5%</b>	<b>1.1%</b>	<b>1.0%</b>	<b>0.1%</b>	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>23.8%</b>	<b>73.2%</b>	0.0%	0.0%	<b>3.0%</b>	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>2.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>59.1%</b>	<b>38.9%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>1.3%</b>	0.0%	<b>2.8%</b>	0.0%	0.0%	<b>5.5%</b>	0.0%	<b>62.2%</b>	<b>18.1%</b>	0.0%	0.0%	<b>10.2%</b>	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#7 Other Bottles	0.0%	0.0%	0.0%	<b>18.1%</b>	<b>12.9%</b>	<b>0.9%</b>	0.0%	0.0%	<b>2.6%</b>	<b>2.6%</b>	<b>17.9%</b>	<b>34.8%</b>	0.0%	0.0%	<b>10.3%</b>	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>92.7%</b>	0.0%	<b>1.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>6.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>4.8%</b>	<b>90.3%</b>	0.0%	0.0%	<b>4.8%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	<b>1.5%</b>	<b>1.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>67.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.9%</b>	<b>21.3%</b>	<b>1.9%</b>	0.0%	0.0%	<b>5.8%</b>	<b>100.0%</b>
Clear Container Glass	<b>5.5%</b>	<b>5.1%</b>	<b>0.5%</b>	<b>13.8%</b>	<b>0.1%</b>	<b>4.9%</b>	<b>15.0%</b>	<b>17.8%</b>	<b>0.5%</b>	<b>1.3%</b>	<b>31.8%</b>	<b>2.7%</b>	0.0%	0.0%	<b>1.1%</b>	<b>100.0%</b>
Green Container Glass	<b>8.0%</b>	<b>9.6%</b>	<b>8.6%</b>	<b>0.2%</b>	0.0%	0.0%	<b>69.5%</b>	<b>1.0%</b>	0.0%	0.0%	<b>2.4%</b>	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Brown Container Glass	<b>9.8%</b>	<b>61.1%</b>	0.0%	<b>1.0%</b>	0.0%	<b>0.3%</b>	<b>16.5%</b>	<b>5.3%</b>	0.0%	<b>0.5%</b>	<b>3.4%</b>	<b>2.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	<b>21.7%</b>	<b>5.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>23.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>47.2%</b>	0.0%	0.0%	<b>2.1%</b>	<b>100.0%</b>
Aluminum Cans	<b>41.4%</b>	<b>10.5%</b>	<b>0.1%</b>	<b>6.4%</b>	<b>0.7%</b>	<b>4.8%</b>	0.0%	<b>1.0%</b>	<b>0.9%</b>	<b>2.1%</b>	<b>14.2%</b>	<b>17.8%</b>	0.0%	0.0%	<b>0.1%</b>	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	<b>0.2%</b>	0.0%	<b>1.9%</b>	<b>0.0%</b>	<b>0.7%</b>	0.0%	0.0%	<b>3.9%</b>	<b>2.6%</b>	<b>80.5%</b>	<b>10.0%</b>	0.0%	0.0%	<b>0.2%</b>	<b>100.0%</b>
<b>Total</b>	<b>7.0%</b>	<b>6.7%</b>	<b>6.2%</b>	<b>7.9%</b>	<b>1.5%</b>	<b>2.4%</b>	<b>16.8%</b>	<b>4.7%</b>	<b>7.4%</b>	<b>4.1%</b>	<b>21.6%</b>	<b>12.8%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>100.0%</b>

**Exhibit 28d Queens Composition of Bottles, Cans and Cartons in Aggregate**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>
#1 PET Clear/Green Bottles	<b>0.2%</b>	0.0%	<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>1.3%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.6%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Clear Container Glass	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.3%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.7%</b>
Green Container Glass	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.3%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>
Other Color Container Glass	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.8%</b>
<b>Total</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.3%</b>	<b>0.8%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.3%</b>	<b>1.9%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>6.6%</b>

**Exhibit 28d Queens Composition of Bottles, Cans and Cartons in Aggregate - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	1,332	0	47	0	89	1,346	411	63	15	0	0	67	3,370
#1 PET Clear/Green Bottles	1,314	0	1,673	1,673	815	357	8	282	105	1,873	1,927	1,101	0	9	53	11,189
#1 PET Other Color Bottles	29	4	7	382	8	23	2	38	40	14	147	360	0	0	7	1,060
#2 HDPE Natural Bottles	0	0	868	394	0	0	0	3	2,161	19	534	742	17	19	11	4,768
#2 HDPE Pigmented Bottles	0	0	0	23	19	3	0	0	317	54	599	2,807	15	53	0	3,891
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	15	10	0	0	0	25
#4 LDPE/LLDPE Bottles	0	0	0	1	0	0	0	0	0	0	34	5	0	0	0	39
#5 PP Rigid Bottles	0	0	7	8	0	0	0	0	5	0	477	103	0	0	0	600
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	6
#7 Other Bottles	0	0	0	35	1	0	0	0	1	0	55	63	20	0	3	178
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	71	0	0	0	0	0	3	7	3	0	0	0	84
Unlabeled Plastic Bottles	0	0	0	3	0	1	0	0	0	0	50	187	0	0	72	311
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Food/Drink Pouches	0	0	0	249	0	0	1	0	0	0	13	0	0	0	0	263
Clear Container Glass	525	1,115	118	2,197	0	226	917	2,762	21	90	6,090	785	0	0	70	14,916
Green Container Glass	415	734	75	32	0	0	2,739	126	0	12	247	28	0	0	0	4,409
Brown Container Glass	224	1,067	0	25	0	0	246	448	0	3	132	52	0	0	2	2,198
Other Color Container Glass	10	69	0	0	0	0	73	91	0	0	0	44	0	0	0	287
Aluminum Cans	422	369	9	365	14	124	0	2	21	50	252	519	0	0	0	2,148
Steel/Tin Food Cans	0	41	0	58	21	121	0	5	509	166	5,443	798	0	0	4	7,165
<b>Total</b>	<b>2,938</b>	<b>3,398</b>	<b>2,757</b>	<b>6,849</b>	<b>878</b>	<b>901</b>	<b>3,985</b>	<b>3,847</b>	<b>4,526</b>	<b>2,696</b>	<b>16,084</b>	<b>7,627</b>	<b>51</b>	<b>81</b>	<b>290</b>	<b>56,908</b>

**Exhibit 28d Breakdown of Container Type for each Product Type (Aggregate - Queens) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>19.4%</b>	0.0%	<b>5.2%</b>	0.0%	<b>2.3%</b>	<b>29.7%</b>	<b>15.3%</b>	<b>0.4%</b>	<b>0.2%</b>	0.0%	0.0%	<b>23.2%</b>	<b>5.9%</b>
#1 PET Clear/Green Bottles	<b>44.7%</b>	0.0%	<b>60.7%</b>	<b>24.4%</b>	<b>92.8%</b>	<b>39.6%</b>	<b>0.2%</b>	<b>7.3%</b>	<b>2.3%</b>	<b>69.5%</b>	<b>12.0%</b>	<b>14.4%</b>	0.0%	<b>10.8%</b>	<b>18.1%</b>	<b>19.7%</b>
#1 PET Other Color Bottles	<b>1.0%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>5.6%</b>	<b>0.9%</b>	<b>2.5%</b>	<b>0.0%</b>	<b>1.0%</b>	<b>0.9%</b>	<b>0.5%</b>	<b>0.9%</b>	<b>4.7%</b>	0.0%	0.0%	<b>2.4%</b>	<b>1.9%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>31.5%</b>	<b>5.8%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>47.7%</b>	<b>0.7%</b>	<b>3.3%</b>	<b>9.7%</b>	<b>33.6%</b>	<b>23.3%</b>	<b>3.8%</b>	<b>8.4%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>2.2%</b>	<b>0.4%</b>	0.0%	0.0%	<b>7.0%</b>	<b>2.0%</b>	<b>3.7%</b>	<b>36.8%</b>	<b>28.4%</b>	<b>65.9%</b>	0.0%	<b>6.8%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
#5 PP Rigid Bottles	0.0%	0.0%	<b>0.3%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>3.0%</b>	<b>1.3%</b>	0.0%	0.0%	0.0%	<b>1.1%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.3%</b>	<b>0.8%</b>	<b>38.0%</b>	0.0%	<b>1.2%</b>	<b>0.3%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>2.4%</b>	0.0%	0.0%	<b>24.7%</b>	<b>0.5%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>3.6%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>
Clear Container Glass	<b>17.9%</b>	<b>32.8%</b>	<b>4.3%</b>	<b>32.1%</b>	0.0%	<b>25.1%</b>	<b>23.0%</b>	<b>71.8%</b>	<b>0.5%</b>	<b>3.3%</b>	<b>37.9%</b>	<b>10.3%</b>	0.0%	0.0%	<b>24.3%</b>	<b>26.2%</b>
Green Container Glass	<b>14.1%</b>	<b>21.6%</b>	<b>2.7%</b>	<b>0.5%</b>	0.0%	0.0%	<b>68.7%</b>	<b>3.3%</b>	0.0%	<b>0.4%</b>	<b>1.5%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>7.7%</b>
Brown Container Glass	<b>7.6%</b>	<b>31.4%</b>	0.0%	<b>0.4%</b>	0.0%	0.0%	<b>6.2%</b>	<b>11.6%</b>	0.0%	<b>0.1%</b>	<b>0.8%</b>	<b>0.7%</b>	0.0%	0.0%	<b>0.8%</b>	<b>3.9%</b>
Other Color Container Glass	<b>0.3%</b>	<b>2.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.8%</b>	<b>2.4%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
Aluminum Cans	<b>14.4%</b>	<b>10.9%</b>	<b>0.3%</b>	<b>5.3%</b>	<b>1.7%</b>	<b>13.8%</b>	0.0%	<b>0.1%</b>	<b>0.5%</b>	<b>1.9%</b>	<b>1.6%</b>	<b>6.8%</b>	0.0%	0.0%	0.0%	<b>3.8%</b>
Steel/Tin Food Cans	0.0%	<b>1.2%</b>	0.0%	<b>0.8%</b>	<b>2.4%</b>	<b>13.4%</b>	0.0%	<b>0.1%</b>	<b>11.2%</b>	<b>6.2%</b>	<b>33.8%</b>	<b>10.5%</b>	0.0%	0.0%	<b>1.5%</b>	<b>12.6%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 28d Breakdown of Product Type for each Container Type (Aggregate - Queens) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>39.5%</b>	0.0%	<b>1.4%</b>	0.0%	<b>2.7%</b>	<b>39.9%</b>	<b>12.2%</b>	<b>1.9%</b>	<b>0.4%</b>	0.0%	0.0%	<b>2.0%</b>	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>11.7%</b>	0.0%	<b>14.9%</b>	<b>15.0%</b>	<b>7.3%</b>	<b>3.2%</b>	<b>0.1%</b>	<b>2.5%</b>	<b>0.9%</b>	<b>16.7%</b>	<b>17.2%</b>	<b>9.8%</b>	0.0%	<b>0.1%</b>	<b>0.5%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>2.7%</b>	<b>0.4%</b>	<b>0.7%</b>	<b>36.0%</b>	<b>0.7%</b>	<b>2.1%</b>	<b>0.2%</b>	<b>3.6%</b>	<b>3.8%</b>	<b>1.3%</b>	<b>13.9%</b>	<b>34.0%</b>	0.0%	0.0%	<b>0.7%</b>	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>18.2%</b>	<b>8.3%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>45.3%</b>	<b>0.4%</b>	<b>11.2%</b>	<b>15.6%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.2%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>0.5%</b>	<b>0.1%</b>	0.0%	0.0%	<b>8.1%</b>	<b>1.4%</b>	<b>15.4%</b>	<b>72.1%</b>	<b>0.4%</b>	<b>1.4%</b>	0.0%	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>59.2%</b>	<b>40.8%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>1.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>85.3%</b>	<b>13.2%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	<b>1.2%</b>	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	<b>79.4%</b>	<b>17.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>19.7%</b>	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	<b>30.8%</b>	<b>35.3%</b>	<b>10.9%</b>	0.0%	<b>1.9%</b>	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>84.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.4%</b>	<b>8.3%</b>	<b>3.5%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>16.0%</b>	<b>59.9%</b>	0.0%	0.0%	<b>23.0%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>94.9%</b>	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>4.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Clear Container Glass	<b>3.5%</b>	<b>7.5%</b>	<b>0.8%</b>	<b>14.7%</b>	0.0%	<b>1.5%</b>	<b>6.1%</b>	<b>18.5%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>40.8%</b>	<b>5.3%</b>	0.0%	0.0%	<b>0.5%</b>	<b>100.0%</b>
Green Container Glass	<b>9.4%</b>	<b>16.7%</b>	<b>1.7%</b>	<b>0.7%</b>	0.0%	0.0%	<b>62.1%</b>	<b>2.9%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>5.6%</b>	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Brown Container Glass	<b>10.2%</b>	<b>48.5%</b>	0.0%	<b>1.1%</b>	0.0%	0.0%	<b>11.2%</b>	<b>20.4%</b>	0.0%	<b>0.2%</b>	<b>6.0%</b>	<b>2.4%</b>	0.0%	0.0%	<b>0.1%</b>	<b>100.0%</b>
Other Color Container Glass	<b>3.4%</b>	<b>24.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>25.5%</b>	<b>31.7%</b>	0.0%	0.0%	0.0%	<b>15.4%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Aluminum Cans	<b>19.6%</b>	<b>17.2%</b>	<b>0.4%</b>	<b>17.0%</b>	<b>0.7%</b>	<b>5.8%</b>	0.0%	<b>0.1%</b>	<b>1.0%</b>	<b>2.4%</b>	<b>11.7%</b>	<b>24.2%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	<b>0.6%</b>	0.0%	<b>0.8%</b>	<b>0.3%</b>	<b>1.7%</b>	0.0%	<b>0.1%</b>	<b>7.1%</b>	<b>2.3%</b>	<b>76.0%</b>	<b>11.1%</b>	0.0%	0.0%	<b>0.1%</b>	<b>100.0%</b>
<b>Total</b>	<b>5.2%</b>	<b>6.0%</b>	<b>4.8%</b>	<b>12.0%</b>	<b>1.5%</b>	<b>1.6%</b>	<b>7.0%</b>	<b>6.8%</b>	<b>8.0%</b>	<b>4.7%</b>	<b>28.3%</b>	<b>13.4%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.5%</b>	<b>100.0%</b>

**Exhibit 28e Staten Island Composition of Bottles, Cans and Cartons in Aggregate**

Absolute Composition, Percentage. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>
#1 PET Clear/Green Bottles	<b>0.3%</b>	0.0%	<b>0.3%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>1.4%</b>
#1 PET Other Color Bottles	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.4%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Clear Container Glass	<b>0.1%</b>	<b>0.3%</b>	0.0%	<b>0.3%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>1.9%</b>
Green Container Glass	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.6%</b>
Brown Container Glass	<b>0.0%</b>	<b>0.3%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Other Color Container Glass	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Aluminum Cans	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Steel/Tin Food Cans	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.8%</b>
<b>Total</b>	<b>0.5%</b>	<b>0.8%</b>	<b>0.3%</b>	<b>0.7%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>0.3%</b>	<b>0.4%</b>	<b>0.2%</b>	<b>1.8%</b>	<b>0.9%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>6.8%</b>

**Exhibit 28e Staten Island Composition of Bottles, Cans and Cartons in Aggregate - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/Dairy	100% Fruit and Vegetable Juices	Food	Non-Food/Non-Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0	0	0	176	2	10	0	0	261	93	34	3	0	0	14	592
#1 PET Clear/Green Bottles	597	0	679	313	245	64	1	13	39	328	606	336	0	3	5	3,226
#1 PET Other Color Bottles	9	0	0	79	1	0	0	2	6	7	24	149	0	0	3	282
#2 HDPE Natural Bottles	0	0	99	55	0	4	0	0	516	11	81	201	0	0	7	974
#2 HDPE Pigmented Bottles	0	0	0	3	0	0	0	1	91	2	138	876	0	5	2	1,119
#3 PVC Bottles	0	0	0	0	0	0	0	0	0	0	12	4	0	0	5	21
#4 LDPE/LLDPE Bottles	0	0	0	1	0	0	0	0	0	0	2	1	0	0	0	3
#5 PP Rigid Bottles	0	0	0	6	0	0	0	0	2	0	66	19	0	0	1	93
#6 PS Rigid Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#7 Other Bottles	0	0	0	23	0	0	0	0	1	0	23	3	0	0	0	50
Other Labeled Resin Bottles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dual Numbered Plastic Bottles	0	0	0	42	0	0	0	0	0	1	0	0	0	0	13	56
Unlabeled Plastic Bottles	0	0	0	0	0	1	0	0	0	0	11	42	0	0	37	92
BioPlastic Bottles	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Film Plastic: Food/Drink Pouches	0	0	0	43	0	0	0	0	0	2	2	1	0	0	1	49
Clear Container Glass	149	602	0	765	0	50	548	516	24	7	1,570	69	0	0	25	4,325
Green Container Glass	67	474	5	0	0	0	836	0	0	0	30	0	0	0	3	1,416
Brown Container Glass	49	622	0	17	0	0	45	26	0	0	41	4	0	0	0	804
Other Color Container Glass	3	12	0	0	0	0	16	28	0	0	0	15	0	0	0	74
Aluminum Cans	202	163	0	77	3	19	0	0	7	5	93	154	0	0	0	723
Steel/Tin Food Cans	0	1	0	17	2	9	0	0	41	34	1,499	128	0	0	1	1,732
<b>Total</b>	<b>1,077</b>	<b>1,875</b>	<b>783</b>	<b>1,617</b>	<b>253</b>	<b>157</b>	<b>1,445</b>	<b>586</b>	<b>987</b>	<b>491</b>	<b>4,232</b>	<b>2,006</b>	0	8	117	15,633

**Exhibit 28e Breakdown of Container Type for each Product Type (Aggregate - Staten Island) - continued**

Relative % (% of container type for that product type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non- Food/Non- Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>10.9%</b>	<b>0.6%</b>	<b>6.4%</b>	0.0%	0.0%	<b>26.4%</b>	<b>19.1%</b>	<b>0.8%</b>	<b>0.1%</b>	0.0%	0.0%	<b>11.9%</b>	<b>3.8%</b>
#1 PET Clear/Green Bottles	<b>55.4%</b>	0.0%	<b>86.7%</b>	<b>19.3%</b>	<b>96.8%</b>	<b>40.6%</b>	<b>0.0%</b>	<b>2.2%</b>	<b>3.9%</b>	<b>66.9%</b>	<b>14.3%</b>	<b>16.7%</b>	0.0%	<b>37.2%</b>	<b>3.9%</b>	<b>20.6%</b>
#1 PET Other Color Bottles	<b>0.9%</b>	<b>0.0%</b>	0.0%	<b>4.9%</b>	<b>0.4%</b>	<b>0.2%</b>	0.0%	<b>0.3%</b>	<b>0.6%</b>	<b>1.5%</b>	<b>0.6%</b>	<b>7.4%</b>	0.0%	0.0%	<b>2.6%</b>	<b>1.8%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>12.6%</b>	<b>3.4%</b>	0.0%	<b>2.6%</b>	0.0%	<b>0.1%</b>	<b>52.3%</b>	<b>2.3%</b>	<b>1.9%</b>	<b>10.0%</b>	0.0%	0.0%	<b>5.6%</b>	<b>6.2%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.2%</b>	<b>9.2%</b>	<b>0.5%</b>	<b>3.3%</b>	<b>43.6%</b>	0.0%	<b>62.8%</b>	<b>1.8%</b>	<b>7.2%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.2%</b>	0.0%	0.0%	<b>4.2%</b>	<b>0.1%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	<b>1.6%</b>	<b>0.9%</b>	0.0%	0.0%	<b>0.9%</b>	<b>0.6%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>2.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>11.2%</b>	<b>0.4%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>2.1%</b>	0.0%	0.0%	<b>31.8%</b>	<b>0.6%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>2.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.9%</b>	<b>0.3%</b>
Clear Container Glass	<b>13.8%</b>	<b>32.1%</b>	0.0%	<b>47.3%</b>	0.0%	<b>31.6%</b>	<b>37.9%</b>	<b>88.1%</b>	<b>2.4%</b>	<b>1.4%</b>	<b>37.1%</b>	<b>3.5%</b>	0.0%	0.0%	<b>21.5%</b>	<b>27.7%</b>
Green Container Glass	<b>6.2%</b>	<b>25.3%</b>	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>57.9%</b>	0.0%	0.0%	0.0%	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>2.6%</b>	<b>9.1%</b>
Brown Container Glass	<b>4.5%</b>	<b>33.2%</b>	0.0%	<b>1.0%</b>	0.0%	0.0%	<b>3.1%</b>	<b>4.5%</b>	0.0%	0.0%	<b>1.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>5.1%</b>
Other Color Container Glass	<b>0.3%</b>	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	<b>4.7%</b>	0.0%	0.0%	0.0%	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>
Aluminum Cans	<b>18.8%</b>	<b>8.7%</b>	<b>0.0%</b>	<b>4.8%</b>	<b>1.2%</b>	<b>12.1%</b>	0.0%	<b>0.0%</b>	<b>0.8%</b>	<b>1.0%</b>	<b>2.2%</b>	<b>7.7%</b>	0.0%	0.0%	0.0%	<b>4.6%</b>
Steel/Tin Food Cans	0.0%	<b>0.1%</b>	0.0%	<b>1.0%</b>	<b>1.0%</b>	<b>5.7%</b>	0.0%	0.0%	<b>4.1%</b>	<b>6.8%</b>	<b>35.4%</b>	<b>6.4%</b>	0.0%	0.0%	<b>1.2%</b>	<b>11.1%</b>
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 28e Breakdown of Product Type for each Container Type (Aggregate - Staten Island) - continued**

Relative % (% of product type for that container type). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Bottle, Can and Carton Subsort	Soda	Beer	Water	Iced Tea/Juice Drinks	Sports Drinks	Other New Age Drinks	Wine	Spirits	Milk/Soy/ Dairy	100% Fruit and Vegetable Juices	Food	Non- Food/Non- Beverage	Beverage > 1 Gallon	Empty HHW	Indistinguishable	Total
Paper Beverage Cartons/Aseptic Boxes	0.0%	0.0%	0.0%	<b>29.7%</b>	<b>0.3%</b>	<b>1.7%</b>	0.0%	0.0%	<b>44.0%</b>	<b>15.8%</b>	<b>5.7%</b>	<b>0.5%</b>	0.0%	0.0%	<b>2.3%</b>	<b>100.0%</b>
#1 PET Clear/Green Bottles	<b>18.5%</b>	0.0%	<b>21.0%</b>	<b>9.7%</b>	<b>7.6%</b>	<b>2.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>1.2%</b>	<b>10.2%</b>	<b>18.8%</b>	<b>10.4%</b>	0.0%	<b>0.1%</b>	<b>0.1%</b>	<b>100.0%</b>
#1 PET Other Color Bottles	<b>3.3%</b>	<b>0.1%</b>	0.0%	<b>28.1%</b>	<b>0.4%</b>	<b>0.1%</b>	0.0%	<b>0.6%</b>	<b>2.1%</b>	<b>2.6%</b>	<b>8.7%</b>	<b>52.9%</b>	0.0%	0.0%	<b>1.1%</b>	<b>100.0%</b>
#2 HDPE Natural Bottles	0.0%	0.0%	<b>10.2%</b>	<b>5.6%</b>	0.0%	<b>0.4%</b>	0.0%	<b>0.0%</b>	<b>52.9%</b>	<b>1.1%</b>	<b>8.4%</b>	<b>20.6%</b>	0.0%	0.0%	<b>0.7%</b>	<b>100.0%</b>
#2 HDPE Pigmented Bottles	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>8.2%</b>	<b>0.2%</b>	<b>12.3%</b>	<b>78.3%</b>	0.0%	<b>0.5%</b>	<b>0.2%</b>	<b>100.0%</b>
#3 PVC Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>58.5%</b>	<b>17.9%</b>	0.0%	0.0%	<b>23.6%</b>	<b>100.0%</b>
#4 LDPE/LLDPE Bottles	0.0%	0.0%	0.0%	<b>35.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>48.3%</b>	<b>16.1%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
#5 PP Rigid Bottles	0.0%	0.0%	0.0%	<b>6.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.0%</b>	0.0%	<b>70.5%</b>	<b>19.9%</b>	0.0%	0.0%	<b>1.1%</b>	<b>100.0%</b>
#6 PS Rigid Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
#7 Other Bottles	0.0%	0.0%	0.0%	<b>46.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	<b>0.4%</b>	<b>45.9%</b>	<b>6.5%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Labeled Resin Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Dual Numbered Plastic Bottles	0.0%	0.0%	0.0%	<b>74.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>23.2%</b>	<b>100.0%</b>
Unlabeled Plastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>12.1%</b>	<b>46.4%</b>	0.0%	0.0%	<b>40.4%</b>	<b>100.0%</b>
BioPlastic Bottles	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	0.0%	0.0%	0.0%	<b>87.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.1%</b>	<b>4.4%</b>	<b>2.0%</b>	0.0%	0.0%	<b>2.0%</b>	<b>100.0%</b>
Clear Container Glass	<b>3.4%</b>	<b>13.9%</b>	0.0%	<b>17.7%</b>	0.0%	<b>1.1%</b>	<b>12.7%</b>	<b>11.9%</b>	<b>0.6%</b>	<b>0.2%</b>	<b>36.3%</b>	<b>1.6%</b>	0.0%	0.0%	<b>0.6%</b>	<b>100.0%</b>
Green Container Glass	<b>4.7%</b>	<b>33.5%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>59.1%</b>	0.0%	0.0%	0.0%	<b>2.2%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>100.0%</b>
Brown Container Glass	<b>6.1%</b>	<b>77.4%</b>	0.0%	<b>2.1%</b>	0.0%	0.0%	<b>5.6%</b>	<b>3.3%</b>	0.0%	0.0%	<b>5.1%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Color Container Glass	<b>4.6%</b>	<b>15.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>21.7%</b>	<b>37.6%</b>	0.0%	0.0%	0.0%	<b>20.2%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Aluminum Cans	<b>28.0%</b>	<b>22.5%</b>	<b>0.0%</b>	<b>10.6%</b>	<b>0.4%</b>	<b>2.6%</b>	0.0%	<b>0.0%</b>	<b>1.0%</b>	<b>0.6%</b>	<b>12.9%</b>	<b>21.2%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Steel/Tin Food Cans	0.0%	<b>0.1%</b>	0.0%	<b>1.0%</b>	<b>0.1%</b>	<b>0.5%</b>	0.0%	0.0%	<b>2.3%</b>	<b>1.9%</b>	<b>86.5%</b>	<b>7.4%</b>	0.0%	0.0%	<b>0.1%</b>	<b>100.0%</b>
<b>Total</b>	<b>6.9%</b>	<b>12.0%</b>	<b>5.0%</b>	<b>10.3%</b>	<b>1.6%</b>	<b>1.0%</b>	<b>9.2%</b>	<b>3.7%</b>	<b>6.3%</b>	<b>3.1%</b>	<b>27.1%</b>	<b>12.8%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>100.0%</b>



**Exhibit 29a Bronx MGP - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>10.2%</b>	<b>1.2%</b>	<b>5.7%</b>	<b>3.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>21.8%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>0.6%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>		<b>0.0%</b>	<b>0.3%</b>	0.0%	<b>0.1%</b>	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>2.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.6%</b>	<b>1.1%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>		0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.4%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>	<b>2.6%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>0.1%</b>	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.9%</b>	<b>2.8%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>	<b>1.8%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>0.7%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.4%</b>	0.0%	0.0%	0.0%	<b>3.4%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>0.1%</b>
<b>Total</b>		<b>12.1%</b>		<b>5.9%</b>	<b>5.0%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>2.1%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.1%</b>	0.0%	<b>4.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>7.7%</b>	<b>38.3%</b>

**Exhibit 29a Bronx MGP - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>2,892</b>	<b>342</b>	<b>1,625</b>	<b>1,113</b>	<b>8</b>	<b>4</b>	<b>88</b>	0	0	0	<b>43</b>	<b>25</b>	0	0	0	0	0	<b>53</b>	<b>6,191</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>183</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>183</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>1</b>		<b>9</b>	<b>73</b>	0	<b>34</b>	<b>306</b>	0	0	0	<b>2</b>	<b>8</b>	0	0	0	0	0	<b>132</b>	<b>564</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	0	<b>62</b>	0	0	0	0	0	0	0	0	0	<b>62</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>4</b>	<b>6</b>	<b>17</b>	<b>4</b>	<b>6</b>	<b>96</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>170</b>	<b>313</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>8</b>	0	0	0	0	0	<b>26</b>	0	<b>40</b>	<b>10</b>	<b>0</b>	0	0	0	0	0	0	<b>18</b>	<b>102</b>
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>125</b>	<b>125</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>9</b>	<b>9</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	<b>37</b>	0	<b>23</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>657</b>	<b>724</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	<b>35</b>	<b>168</b>	0	0	<b>46</b>	0	0	0	0	0	0	0	0	0	0	<b>548</b>	<b>798</b>
Other PVC	Other Rigid Plastic	0	0	0	0	<b>19</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>19</b>
Other Plastics	Other Rigid Plastic	<b>1</b>	0	0	<b>4</b>	0	<b>2</b>	<b>25</b>	0	<b>1</b>	0	<b>1</b>	0	0	0	0	0	0	<b>480</b>	<b>513</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	0	<b>20</b>	0	0	0	0	0	0	0	0	<b>20</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>202</b>	0	0	0	<b>202</b>	
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>961</b>	0	0	0	<b>961</b>	
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>4</b>	0	0	<b>4</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>58</b>	0	0	0	<b>58</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>28</b>	0	0	<b>28</b>	
<b>Total</b>		<b>3,430</b>		<b>1,676</b>	<b>1,412</b>	<b>31</b>	<b>68</b>	<b>588</b>	<b>0</b>	<b>103</b>	<b>30</b>	<b>59</b>	<b>32</b>	<b>0</b>	<b>1,221</b>	<b>32</b>	<b>1</b>	<b>2,191</b>	<b>10,875</b>	

**Exhibit 29a Bronx MGP - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>84.3%</b>	<b>10.0%</b>	<b>97.0%</b>	<b>78.8%</b>	<b>24.5%</b>	<b>5.3%</b>	<b>14.9%</b>	0.0%	0.0%	0.0%	<b>72.6%</b>	<b>75.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.4%</b>	<b>56.9%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>5.3%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>1.7%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.5%</b>	<b>5.1%</b>	0.0%	<b>49.4%</b>	<b>52.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.8%</b>	<b>24.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>6.0%</b>	<b>5.2%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>60.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.1%</b>	<b>0.3%</b>	<b>1.2%</b>	<b>12.7%</b>	<b>8.6%</b>	<b>16.3%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>15.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>7.8%</b>	<b>2.9%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.4%</b>	0.0%	<b>38.5%</b>	<b>33.0%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>0.9%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.7%</b>	<b>1.1%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.1%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>2.6%</b>	<b>33.9%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>30.0%</b>	<b>6.7%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>2.1%</b>	<b>11.9%</b>	0.0%	0.0%	0.0%	<b>7.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>25.0%</b>	<b>7.3%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>62.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>0.3%</b>	0.0%	<b>2.9%</b>	<b>4.2%</b>	0.0%	<b>1.4%</b>	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>21.9%</b>	<b>4.7%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>67.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>16.6%</b>	0.0%	0.0%	0.0%	<b>1.9%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>78.7%</b>	0.0%	0.0%	0.0%	<b>8.8%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.3%</b>	0.0%	0.0%	<b>0.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.7%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>88.7%</b>	0.0%	0.0%	<b>0.3%</b>	
<b>Total</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	

**Exhibit 29a Bronx MGP - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>46.7%</b>	<b>5.5%</b>	<b>26.3%</b>	<b>18.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>1.4%</b>	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	<b>100.0%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.1%</b>	<b>1.6%</b>	<b>12.9%</b>	0.0%	<b>6.0%</b>	<b>54.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>23.4%</b>	<b>100.0%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>1.2%</b>	<b>1.9%</b>	<b>5.5%</b>	<b>1.2%</b>	<b>1.9%</b>	<b>30.6%</b>	<b>0.1%</b>	<b>2.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>54.4%</b>	<b>100.0%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>7.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>25.3%</b>	0.0%	<b>39.0%</b>	<b>9.9%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>17.9%</b>	<b>100.0%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>5.2%</b>	0.0%	<b>3.2%</b>	<b>0.3%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>90.8%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>4.4%</b>	<b>21.1%</b>	0.0%	0.0%	<b>5.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>68.7%</b>	<b>100.0%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	
Other Plastics	Other Rigid Plastic	<b>0.1%</b>	0.0%	<b>0.9%</b>	0.0%	<b>0.4%</b>	<b>4.8%</b>	0.0%	<b>0.3%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>93.4%</b>	<b>100.0%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>	
<b>Total</b>		<b>31.5%</b>	<b>15.4%</b>	<b>13.0%</b>	<b>0.3%</b>	<b>0.6%</b>	<b>5.4%</b>	<b>0.0%</b>	<b>0.9%</b>	<b>0.3%</b>	<b>0.5%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>11.2%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>20.2%</b>	<b>100.0%</b>	

**Exhibit 29b Brooklyn MGP - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>8.2%</b>	<b>0.8%</b>	<b>4.3%</b>	<b>3.6%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>17.8%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>1.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>		<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>1.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>1.5%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.5%</b>	<b>0.9%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>		0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.4%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.3%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%		0.0%	<b>0.4%</b>	0.0%	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	<b>1.8%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>		<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>		0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>	0.0%	0.0%	0.0%	<b>1.2%</b>
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.1%</b>	0.0%	0.0%	0.0%	<b>3.1%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>0.2%</b>
<b>Total</b>		<b>10.1%</b>		<b>4.3%</b>	<b>4.1%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>2.3%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>4.7%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>4.7%</b>	<b>31.6%</b>

**Exhibit 29b Brooklyn MGP - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>4,953</b>	<b>490</b>	<b>2,570</b>	<b>2,146</b>	<b>27</b>	<b>9</b>	<b>251</b>	0	<b>9</b>	0	<b>69</b>	<b>86</b>	0	0	0	0	<b>80</b>	<b>10,690</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>585</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>585</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>2</b>		<b>6</b>	<b>22</b>	0	<b>58</b>	<b>611</b>	0	0	0	<b>2</b>	0	0	0	0	0	<b>213</b>	<b>916</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0		0	0	0	0	0	0	<b>181</b>	0	0	0	0	0	0	0	0	<b>181</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0		<b>1</b>	<b>27</b>	<b>2</b>	<b>25</b>	<b>158</b>	0	0	0	<b>15</b>	0	0	0	0	<b>1</b>	<b>289</b>	<b>518</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>19</b>		0	0	0	0	<b>57</b>	0	<b>91</b>	<b>24</b>	<b>4</b>	0	0	0	0	0	<b>47</b>	<b>243</b>
Appliances: Plastic	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>205</b>	<b>205</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0		0	0	0	0	<b>30</b>	0	0	0	0	0	0	0	0	0	<b>208</b>	<b>238</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0		0	<b>236</b>	0	<b>6</b>	<b>184</b>	0	0	0	0	0	0	0	0	0	<b>663</b>	<b>1,089</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>4</b>		<b>29</b>	<b>31</b>	0	0	<b>5</b>	0	0	0	0	0	0	0	0	0	<b>77</b>	<b>146</b>
Other PVC	Other Rigid Plastic	0		0	0	<b>29</b>	0	0	0	0	0	0	0	0	0	0	0	0	<b>29</b>
Other Plastics	Other Rigid Plastic	<b>2</b>		0	<b>7</b>	0	0	<b>63</b>	0	<b>4</b>	0	<b>3</b>	0	0	0	0	0	<b>1,025</b>	<b>1,103</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0		0	0	0	0	0	0	0	<b>69</b>	0	0	0	0	0	0	0	<b>69</b>
Film Plastic: Retail Bags and Sleeves	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>708</b>	0	0	0	<b>708</b>
Film Plastic: Garbage Bags	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>1,875</b>	0	0	0	<b>1,875</b>
Film Plastic: Food/Drink Pouches	Film	0		0	0	0	0	0	0	0	0	0	0	0	0	<b>9</b>	0	0	<b>9</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>223</b>	0	0	0	<b>223</b>
Film Plastic: Other Non-PE/Contaminated	Film	0		0	0	0	0	0	0	0	0	0	0	0	0	<b>147</b>	0	0	<b>147</b>
<b>Total</b>		<b>6,055</b>		<b>2,607</b>	<b>2,470</b>	<b>58</b>	<b>99</b>	<b>1,359</b>	<b>0</b>	<b>285</b>	<b>93</b>	<b>92</b>	<b>86</b>	<b>0</b>	<b>2,806</b>	<b>156</b>	<b>1</b>	<b>2,807</b>	<b>18,973</b>

**Exhibit 29b Brooklyn MGP - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>81.8%</b>	<b>8.1%</b>	<b>98.6%</b>	<b>86.9%</b>	<b>46.5%</b>	<b>9.5%</b>	<b>18.5%</b>	0.0%	<b>3.1%</b>	0.0%	<b>74.7%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.9%</b>	<b>56.3%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>9.7%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>3.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.2%</b>	<b>0.9%</b>	<b>0.9%</b>	0.0%	<b>59.2%</b>	<b>45.0%</b>	0.0%	0.0%	0.0%	<b>1.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.6%</b>	<b>4.8%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>63.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	<b>0.0%</b>	<b>1.1%</b>	<b>3.0%</b>	<b>24.9%</b>	<b>11.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>15.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>10.3%</b>	<b>2.7%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.2%</b>	0.0%	<b>32.0%</b>	<b>25.9%</b>	<b>4.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>	<b>1.3%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.3%</b>	<b>1.1%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.4%</b>	<b>1.3%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>9.6%</b>	0.0%	<b>6.5%</b>	<b>13.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>23.6%</b>	<b>5.7%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.1%</b>	<b>1.1%</b>	<b>1.3%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.8%</b>	<b>0.8%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>50.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>4.6%</b>	0.0%	<b>1.4%</b>	0.0%	<b>3.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>36.5%</b>	<b>5.8%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>74.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>25.2%</b>	0.0%	0.0%	0.0%	<b>3.7%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>66.8%</b>	0.0%	0.0%	0.0%	<b>9.9%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.0%</b>	0.0%	0.0%	<b>0.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>8.0%</b>	0.0%	0.0%	0.0%	<b>1.2%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>94.0%</b>	0.0%	0.0%	<b>0.8%</b>	
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	

**Exhibit 29b Brooklyn MGP - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>46.3%</b>	<b>4.6%</b>	<b>24.0%</b>	<b>20.1%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>2.3%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.6%</b>	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>100.0%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.3%</b>	<b>0.7%</b>	<b>2.4%</b>	<b>2.4%</b>	0.0%	<b>6.4%</b>	<b>66.7%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>23.3%</b>	<b>100.0%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	<b>0.2%</b>	<b>5.3%</b>	<b>0.3%</b>	<b>4.7%</b>	<b>30.5%</b>	0.0%	0.0%	<b>2.8%</b>	<b>30.5%</b>	<b>2.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>55.8%</b>	<b>100.0%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>7.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>23.6%</b>	0.0%	<b>37.5%</b>	<b>9.9%</b>	<b>1.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>19.5%</b>	<b>100.0%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>12.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>87.2%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>21.7%</b>	0.0%	<b>0.6%</b>	<b>16.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>60.8%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>2.4%</b>	<b>19.7%</b>	<b>21.3%</b>	0.0%	0.0%	<b>3.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>53.0%</b>	<b>100.0%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	
Other Plastics	Other Rigid Plastic	<b>0.2%</b>	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>5.7%</b>	0.0%	<b>0.4%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>92.9%</b>	<b>100.0%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>	
<b>Total</b>		<b>31.9%</b>		<b>13.7%</b>	<b>13.0%</b>	<b>0.3%</b>	<b>0.5%</b>	<b>7.2%</b>	0.0%	<b>1.5%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.5%</b>	0.0%	<b>14.8%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>14.8%</b>	<b>100.0%</b>	

**Exhibit 29c Manhattan MGP - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>6.3%</b>	<b>0.7%</b>	<b>2.8%</b>	<b>2.4%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>12.6%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging		<b>1.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>1.6%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging		<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>	<b>0.9%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic		<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>	
Appliances: Plastic	Other Rigid Plastic		0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.5%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic		0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	<b>1.2%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic		0.0%	<b>0.0%</b>	<b>0.3%</b>	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.5%</b>	
Other PVC	Other Rigid Plastic		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Other Plastics	Other Rigid Plastic		<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	<b>0.9%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	
Film Plastic: Retail Bags and Sleeves	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	
Film Plastic: Garbage Bags	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.0%</b>	0.0%	0.0%	0.0%	<b>4.0%</b>	
Film Plastic: Food/Drink Pouches	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>	
Film Plastic: Other Non-PE/Contaminated	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>0.2%</b>	
<b>Total</b>			<b>8.1%</b>	<b>2.8%</b>	<b>2.7%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>1.9%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	<b>4.9%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>3.5%</b>	<b>25.0%</b>	

**Exhibit 29c Manhattan MGP - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>2,707</b>	<b>290</b>	<b>1,204</b>	<b>1,023</b>	<b>24</b>	<b>13</b>	<b>73</b>	0	0	0	<b>19</b>	<b>33</b>	0	0	0	1	<b>53</b>	<b>5,440</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>484</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>484</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		<b>0</b>	<b>4</b>	<b>10</b>	<b>0</b>	<b>45</b>	<b>464</b>	0	0	0	<b>0</b>	0	0	0	0	0	<b>170</b>	<b>694</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging		0	0	0	0	0	0	0	<b>114</b>	0	0	0	0	0	0	0	0	<b>114</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging		<b>1</b>	<b>0</b>	<b>37</b>	<b>4</b>	<b>17</b>	<b>130</b>	<b>1</b>	0	0	<b>10</b>	0	0	0	0	<b>2</b>	<b>181</b>	<b>382</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic		<b>27</b>	0	0	0	0	<b>23</b>	0	<b>40</b>	<b>5</b>	<b>1</b>	0	0	0	0	<b>1</b>	<b>22</b>	<b>118</b>
Appliances: Plastic	Other Rigid Plastic		0	0	0	0	0	<b>47</b>	0	0	0	0	0	0	0	0	0	<b>169</b>	<b>216</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic		0	0	<b>1</b>	<b>0</b>	0	<b>44</b>	0	0	0	0	0	0	0	0	0	<b>482</b>	<b>527</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic		0	<b>15</b>	<b>110</b>	0	<b>38</b>	<b>16</b>	0	0	0	0	0	0	0	0	0	<b>39</b>	<b>218</b>
Other PVC	Other Rigid Plastic		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Plastics	Other Rigid Plastic		<b>0</b>	0	<b>2</b>	0	0	<b>19</b>	0	<b>4</b>	0	0	0	0	0	0	0	<b>373</b>	<b>398</b>
#6 EPS Containers/Packaging	Expanded Polystyrene		0	0	0	0	0	0	0	0	<b>17</b>	0	0	0	0	0	0	0	<b>17</b>
Film Plastic: Retail Bags and Sleeves	Film		0	0	0	0	0	0	0	0	0	0	0	0	<b>221</b>	0	0	0	<b>221</b>
Film Plastic: Garbage Bags	Film		0	0	0	0	0	0	0	0	0	0	0	0	<b>1,712</b>	0	0	0	<b>1,712</b>
Film Plastic: Food/Drink Pouches	Film		0	0	0	0	0	0	0	0	0	0	0	0	0	<b>2</b>	0	0	<b>2</b>
Film Plastic: Other #2/#4 Polyethylene	Film		0	0	0	0	0	0	0	0	0	0	0	0	<b>180</b>	0	0	0	<b>180</b>
Film Plastic: Other Non-PE/Contaminated	Film		0	0	0	0	0	0	0	0	0	0	0	0	0	<b>71</b>	0	0	<b>71</b>
<b>Total</b>			<b>3,508</b>	<b>1,223</b>	<b>1,183</b>	<b>29</b>	<b>113</b>	<b>816</b>	<b>1</b>	<b>158</b>	<b>22</b>	<b>30</b>	<b>33</b>	0	<b>2,113</b>	<b>72</b>	<b>4</b>	<b>1,489</b>	<b>10,793</b>

**Exhibit 29c Manhattan MGP - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total		
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded	Labeled Resin
Plastic Bottles	Rigid Containers/Packaging	<b>77.1%</b>	<b>8.3%</b>	<b>98.5%</b>	<b>86.5%</b>	<b>84.7%</b>	<b>11.6%</b>	<b>9.0%</b>	0.0%	0.0%	<b>63.5%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>22.2%</b>	<b>3.6%</b>	<b>50.4%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>13.8%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.5%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.3%</b>	<b>0.9%</b>	<b>1.4%</b>	<b>39.8%</b>	<b>56.9%</b>	0.0%	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.4%</b>	<b>6.4%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>72.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>3.1%</b>	<b>12.5%</b>	<b>14.8%</b>	<b>15.9%</b>	<b>100.0%</b>	0.0%	0.0%	<b>32.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>55.6%</b>	<b>12.2%</b>	<b>3.5%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.8%</b>	0.0%	<b>25.5%</b>	<b>22.1%</b>	<b>2.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>22.2%</b>	<b>1.4%</b>	<b>1.1%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.3%</b>	<b>2.0%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.1%</b>	<b>1.4%</b>	0.0%	0.0%	<b>5.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>32.4%</b>	<b>4.9%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>1.2%</b>	<b>9.3%</b>	0.0%	<b>33.8%</b>	<b>2.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.6%</b>	<b>2.0%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>2.3%</b>	0.0%	<b>2.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>25.1%</b>	<b>3.7%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>77.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>10.5%</b>	0.0%	0.0%	0.0%	<b>2.1%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>81.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>15.9%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.2%</b>	0.0%	0.0%	<b>0.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>8.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.8%</b>	0.0%	0.0%	0.0%	<b>0.7%</b>	
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	

**Exhibit 29c Manhattan MGP - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	<b>49.8%</b>	<b>5.3%</b>	<b>22.1%</b>	<b>18.8%</b>	<b>0.4%</b>	<b>0.2%</b>	<b>1.3%</b>	0.0%	0.0%	<b>0.3%</b>	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>1.0%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.1%</b>	<b>0.5%</b>	<b>1.5%</b>	<b>0.1%</b>	<b>6.5%</b>	<b>66.9%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>24.5%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.2%</b>	<b>0.1%</b>	<b>9.6%</b>	<b>0.9%</b>	<b>4.4%</b>	<b>34.0%</b>	<b>0.3%</b>	0.0%	0.0%	<b>2.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>47.4%</b>	<b>100.0%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>22.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>19.3%</b>	0.0%	<b>34.2%</b>	<b>4.1%</b>	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>18.3%</b>	<b>100.0%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>21.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>78.3%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.2%</b>	<b>0.1%</b>	0.0%	0.0%	<b>8.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>91.4%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>6.8%</b>	<b>50.3%</b>	0.0%	<b>17.6%</b>	<b>7.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>17.9%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Other Plastics	Other Rigid Plastic	<b>0.1%</b>	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>4.8%</b>	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>93.6%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>32.5%</b>		<b>11.3%</b>	<b>11.0%</b>	<b>0.3%</b>	<b>1.1%</b>	<b>7.6%</b>	<b>0.0%</b>	<b>1.5%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>19.6%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>13.8%</b>	<b>100.0%</b>	

**Exhibit 29d Queens MGP - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>9.5%</b>	<b>0.8%</b>	<b>5.5%</b>	<b>4.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>21.1%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>0.9%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>		<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.1%</b>	<b>1.3%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>1.9%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.6%</b>	<b>1.1%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>		0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.4%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%		<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.3%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.7%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%		0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.9%</b>	<b>2.1%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%		0.0%	<b>0.4%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.7%</b>
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	<b>0.0%</b>		0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>1.3%</b>	<b>1.4%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.0%</b>	0.0%	0.0%	0.0%	<b>3.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	<b>0.4%</b>
<b>Total</b>		<b>11.3%</b>		<b>5.6%</b>	<b>4.7%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>2.5%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>4.3%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>5.7%</b>	<b>35.8%</b>

**Exhibit 29d Queens MGP - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>5,937</b>	<b>501</b>	<b>3,451</b>	<b>2,650</b>	<b>22</b>	<b>19</b>	<b>306</b>	0	<b>1</b>	0	<b>86</b>	<b>75</b>	0	0	0	0	<b>114</b>	<b>13,162</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>567</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>567</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>1</b>		<b>6</b>	<b>31</b>	0	<b>78</b>	<b>821</b>	0	0	0	<b>2</b>	0	0	0	0	0	<b>276</b>	<b>1,213</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0		0	0	0	0	0	0	<b>263</b>	0	0	0	0	0	0	0	0	<b>263</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>10</b>	<b>3</b>	<b>32</b>	<b>16</b>	<b>16</b>	<b>171</b>	<b>1</b>	0	0	<b>26</b>	0	0	0	0	0	<b>2</b>	<b>386</b>	<b>661</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>22</b>		0	0	0	0	<b>65</b>	0	<b>79</b>	<b>20</b>	0	0	0	0	0	0	<b>46</b>	<b>231</b>
Appliances: Plastic	Other Rigid Plastic	0		<b>21</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>181</b>	<b>202</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0		0	0	0	0	<b>3</b>	0	0	0	0	0	0	0	0	0	<b>441</b>	<b>444</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0		0	<b>2</b>	0	<b>1</b>	<b>145</b>	0	0	0	<b>1</b>	0	0	0	0	0	<b>1,158</b>	<b>1,307</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0		0	<b>239</b>	0	0	<b>24</b>	0	0	0	0	0	0	0	0	0	<b>164</b>	<b>428</b>
Other PVC	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Plastics	Other Rigid Plastic	<b>8</b>		0	<b>3</b>	0	<b>2</b>	<b>34</b>	0	<b>3</b>	0	<b>11</b>	0	<b>1</b>	0	0	0	<b>799</b>	<b>862</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0		0	0	0	0	0	0	0	<b>85</b>	0	0	0	0	0	0	0	<b>85</b>
Film Plastic: Retail Bags and Sleeves	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>543</b>	0	0	0	<b>543</b>
Film Plastic: Garbage Bags	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>1,894</b>	0	0	0	<b>1,894</b>
Film Plastic: Food/Drink Pouches	Film	0		0	0	0	0	0	0	0	0	0	0	0	0	<b>9</b>	0	0	<b>9</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>213</b>	0	0	0	<b>213</b>
Film Plastic: Other Non-PE/Contaminated	Film	0		0	0	0	0	0	0	0	0	0	0	0	0	<b>235</b>	0	0	<b>235</b>
<b>Total</b>		<b>7,045</b>		<b>3,481</b>	<b>2,958</b>	<b>38</b>	<b>116</b>	<b>1,569</b>	<b>1</b>	<b>345</b>	<b>105</b>	<b>125</b>	<b>75</b>	<b>1</b>	<b>2,650</b>	<b>244</b>	<b>2</b>	<b>3,564</b>	<b>22,320</b>

**Exhibit 29d Queens MGP - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>84.3%</b>	<b>7.1%</b>	<b>99.1%</b>	<b>89.6%</b>	<b>59.1%</b>	<b>16.3%</b>	<b>19.5%</b>	0.0%	<b>0.2%</b>	0.0%	<b>68.8%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>3.2%</b>	<b>59.0%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>8.1%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.5%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.2%</b>	<b>1.0%</b>	0.0%	0.0%	<b>66.8%</b>	<b>52.3%</b>	0.0%	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.7%</b>	<b>5.4%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>76.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.1%</b>	<b>0.1%</b>	<b>1.1%</b>	<b>40.9%</b>	<b>13.9%</b>	<b>10.9%</b>	<b>100.0%</b>	0.0%	0.0%	<b>20.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>10.8%</b>	<b>3.0%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.1%</b>	0.0%	<b>22.8%</b>	<b>19.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.3%</b>	<b>1.0%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.1%</b>	<b>0.9%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>12.4%</b>	<b>2.0%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>1.0%</b>	<b>9.3%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>32.5%</b>	<b>5.9%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>8.1%</b>	0.0%	0.0%	0.0%	<b>1.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.6%</b>	<b>1.9%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Other Plastics	Other Rigid Plastic	<b>0.1%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>2.0%</b>	<b>2.2%</b>	0.0%	<b>0.8%</b>	0.0%	<b>8.7%</b>	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>22.4%</b>	<b>3.9%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>80.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>20.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.4%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>71.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>8.5%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.5%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>8.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>96.5%</b>	0.0%	0.0%	0.0%	<b>1.1%</b>
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 29d Queens MGP - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>45.1%</b>	<b>3.8%</b>	<b>26.2%</b>	<b>20.1%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>2.3%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.7%</b>	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	<b>100.0%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.5%</b>	<b>2.6%</b>	0.0%	0.0%	<b>6.4%</b>	<b>67.7%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>22.7%</b>	<b>100.0%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>1.6%</b>	<b>0.4%</b>	<b>4.8%</b>	<b>2.3%</b>	<b>2.4%</b>	<b>25.8%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>3.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>58.3%</b>	<b>100.0%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>9.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>28.0%</b>	0.0%	<b>34.0%</b>	<b>8.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>19.9%</b>	<b>100.0%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>10.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>89.5%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>99.4%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>0.1%</b>	<b>11.1%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>88.6%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>56.0%</b>	0.0%	0.0%	0.0%	<b>5.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>38.4%</b>	<b>100.0%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Other Plastics	Other Rigid Plastic	<b>0.9%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	<b>0.3%</b>	<b>4.0%</b>	0.0%	<b>0.3%</b>	0.0%	<b>1.3%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>92.7%</b>	<b>100.0%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>31.6%</b>		<b>15.6%</b>	<b>13.3%</b>	<b>0.2%</b>	<b>0.5%</b>	<b>7.0%</b>	<b>0.0%</b>	<b>1.5%</b>	<b>0.5%</b>	<b>0.6%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>11.9%</b>	<b>1.1%</b>	<b>0.0%</b>	<b>16.0%</b>	<b>100.0%</b>	



**Exhibit 29e Staten Island MGP - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>10.7%</b>	<b>0.5%</b>	<b>3.6%</b>	<b>4.4%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>20.1%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging		<b>1.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>1.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.1%</b>	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>1.5%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging		0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.6%</b>	<b>1.1%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic		<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.6%</b>	
Appliances: Plastic	Other Rigid Plastic		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic		0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic		0.0%	0.0%	<b>0.3%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.2%</b>	<b>3.6%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic		0.0%	<b>0.0%</b>	<b>0.5%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.7%</b>	
Other PVC	Other Rigid Plastic		0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	
Other Plastics	Other Rigid Plastic		0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.5%</b>	<b>1.6%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	
Film Plastic: Retail Bags and Sleeves	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	<b>1.0%</b>	
Film Plastic: Garbage Bags	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.0%</b>	0.0%	0.0%	0.0%	<b>2.0%</b>	
Film Plastic: Food/Drink Pouches	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.4%</b>	
Film Plastic: Other Non-PE/Contaminated	Film		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	<b>0.3%</b>	
<b>Total</b>			<b>12.4%</b>	<b>3.7%</b>	<b>5.4%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>1.8%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.2%</b>	0.0%	<b>3.4%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>6.2%</b>	<b>34.6%</b>	

**Exhibit 29e Staten Island MGP - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>1,962</b>	<b>97</b>	<b>665</b>	<b>807</b>	<b>10</b>	<b>2</b>	<b>43</b>	0	<b>0</b>	0	<b>29</b>	<b>36</b>	0	0	0	0	0	<b>35</b>	<b>3,688</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>206</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>206</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		0	<b>4</b>	<b>10</b>	0	<b>14</b>	<b>168</b>	0	0	0	0	0	0	0	0	0	0	<b>71</b>	<b>267</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging		0	0	0	0	0	0	0	<b>60</b>	0	0	0	0	0	0	0	0	0	<b>60</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging		0	<b>1</b>	<b>12</b>	<b>2</b>	<b>3</b>	<b>64</b>	<b>0</b>	0	0	<b>6</b>	0	0	0	0	0	0	<b>107</b>	<b>195</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic		<b>9</b>	0	0	0	0	<b>23</b>	0	<b>51</b>	<b>7</b>	0	0	0	0	0	0	0	<b>12</b>	<b>102</b>
Appliances: Plastic	Other Rigid Plastic		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>26</b>	<b>26</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic		0	0	0	0	0	<b>4</b>	0	0	0	0	0	0	0	0	0	0	<b>20</b>	<b>24</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic		0	0	<b>50</b>	0	<b>9</b>	<b>13</b>	0	0	0	0	0	0	0	0	0	0	<b>597</b>	<b>669</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic		0	<b>7</b>	<b>98</b>	0	<b>6</b>	0	0	0	0	0	0	0	0	0	0	0	<b>12</b>	<b>122</b>
Other PVC	Other Rigid Plastic		0	0	0	<b>4</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>4</b>
Other Plastics	Other Rigid Plastic		0	<b>1</b>	<b>12</b>	0	<b>0</b>	<b>16</b>	0	<b>2</b>	0	0	0	0	0	0	0	0	<b>267</b>	<b>298</b>
#6 EPS Containers/Packaging	Expanded Polystyrene		0	0	0	0	0	0	0	0	<b>26</b>	0	0	0	0	0	0	0	0	<b>26</b>
Film Plastic: Retail Bags and Sleeves	Film		0	0	0	0	0	0	0	0	0	0	0	0	<b>188</b>	0	0	0	0	<b>188</b>
Film Plastic: Garbage Bags	Film		0	0	0	0	0	0	0	0	0	0	0	0	<b>362</b>	0	0	0	0	<b>362</b>
Film Plastic: Food/Drink Pouches	Film		0	0	0	0	0	0	0	0	0	0	0	0	0	<b>2</b>	0	0	0	<b>2</b>
Film Plastic: Other #2/#4 Polyethylene	Film		0	0	0	0	0	0	0	0	0	0	0	0	<b>72</b>	0	0	0	0	<b>72</b>
Film Plastic: Other Non-PE/Contaminated	Film		0	0	0	0	0	0	0	0	0	0	0	0	0	<b>52</b>	0	0	0	<b>52</b>
<b>Total</b>			<b>2,275</b>	<b>677</b>	<b>988</b>	<b>16</b>	<b>35</b>	<b>331</b>	<b>0</b>	<b>113</b>	<b>33</b>	<b>34</b>	<b>36</b>	<b>0</b>	<b>623</b>	<b>54</b>	<b>1</b>	<b>1,147</b>	<b>6,362</b>	

**Exhibit 29e Staten Island MGP - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>86.3%</b>	<b>4.3%</b>	<b>98.1%</b>	<b>81.7%</b>	<b>61.8%</b>	<b>6.7%</b>	<b>13.1%</b>	0.0%	<b>0.2%</b>	0.0%	<b>83.9%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>3.1%</b>	<b>58.0%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>9.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.2%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	<b>0.7%</b>	<b>1.0%</b>	0.0%	<b>41.0%</b>	<b>50.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.2%</b>	<b>4.2%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>53.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	<b>0.1%</b>	<b>1.2%</b>	<b>14.6%</b>	<b>9.7%</b>	<b>19.4%</b>	<b>100.0%</b>	0.0%	0.0%	<b>16.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>50.0%</b>	<b>9.3%</b>	<b>3.1%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.9%</b>	0.0%	<b>45.0%</b>	<b>20.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>50.0%</b>	<b>1.1%</b>	<b>1.6%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>5.1%</b>	0.0%	<b>24.6%</b>	<b>4.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>52.1%</b>	<b>10.5%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	<b>17.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>1.9%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	<b>23.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>0.1%</b>	<b>1.2%</b>	0.0%	<b>0.5%</b>	<b>4.7%</b>	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>23.3%</b>	<b>4.7%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>79.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>30.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>3.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>58.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>5.7%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.0%</b>	0.0%	0.0%	0.0%	<b>0.8%</b>
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 29e Staten Island MGP - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>53.2%</b>	<b>2.6%</b>	<b>18.0%</b>	<b>21.9%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>1.2%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.8%</b>	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	<b>1.7%</b>	<b>3.6%</b>	0.0%	<b>5.3%</b>	<b>62.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>26.5%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	<b>0.3%</b>	<b>5.9%</b>	<b>1.2%</b>	<b>1.7%</b>	<b>33.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>2.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>54.8%</b>	<b>100.0%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>8.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>22.5%</b>	0.0%	<b>49.8%</b>	<b>6.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>11.8%</b>	<b>100.0%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>15.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>84.2%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>7.5%</b>	0.0%	<b>1.3%</b>	<b>2.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>89.3%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>5.7%</b>	<b>79.8%</b>	0.0%	<b>4.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.6%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>0.3%</b>	<b>4.0%</b>	0.0%	<b>0.1%</b>	<b>5.3%</b>	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>89.9%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>35.8%</b>		<b>10.6%</b>	<b>15.5%</b>	<b>0.2%</b>	<b>0.5%</b>	<b>5.2%</b>	<b>0.0%</b>	<b>1.8%</b>	<b>0.5%</b>	<b>0.5%</b>	<b>0.6%</b>	0.0%	<b>9.8%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>18.0%</b>	<b>100.0%</b>	

**Exhibit 30a Bronx Paper - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
#1 PET Thermoforms	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	0.0%	0.0%	1.3%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%
<b>Total</b>		<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.6%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>2.8%</b>

**Exhibit 30a Bronx Paper - Plastic Resin Composition - continued**

Absolute Composition, Tons

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	41	5	12	1	0	0	3	0	0	0	0	0	0	0	0	0	0	62
#1 PET Thermoforms	Rigid Containers/Packaging	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	3	8
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	24	34
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0	0	0	0	0	0	2	0	2	3	0	0	0	0	0	0	12	19
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	45	47
Other PVC	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Plastics	Other Rigid Plastic	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	36	36
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	0	43
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	47	0	0	0	47
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	374	0	0	0	374
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	52	0	0	0	52
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0	0	59
<b>Total</b>		<b>58</b>	<b>12</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>21</b>	<b>0</b>	<b>4</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>474</b>	<b>62</b>	<b>0</b>	<b>132</b>	<b>811</b>	

Exhibit 30a Bronx Paper - Plastic Resin Type Breakdown by Plastic Subcategory - continued

Relative % (% of subcategory for that resin)

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	71.4%	8.6%	100.0%	100.0%	0.0%	0.0%	12.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.6%
#1 PET Thermoforms	Rigid Containers/Packaging	20.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.4%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	23.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	1.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	37.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	48.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.9%	4.2%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.3%	0.0%	37.5%	6.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.2%	2.3%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.6%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.1%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.2%	5.8%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.1%	4.5%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	94.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	5.8%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	78.9%	0.0%	0.0%	0.0%	0.0%	46.1%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.6%	0.0%	0.0%	0.0%	0.3%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.0%	0.0%	0.0%	0.0%	0.0%	6.5%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.4%	0.0%	0.0%	0.0%	7.3%
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	

Exhibit 30a Bronx Paper - Plastic Subcategory Breakdown by Resin Type - continued

Relative % (% of resin for that category)

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	67.0%	8.0%	18.8%	1.8%	0.0%	0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
#1 PET Thermoforms	Rigid Containers/Packaging	100.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	100.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	69.4%	100.0%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.8%	0.0%	8.8%	14.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.7%	100.0%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%	0.0%	2.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	95.3%	100.0%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	98.5%	100.0%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
<b>Total</b>		<b>7.1%</b>		<b>1.4%</b>	<b>0.1%</b>	0.0%	<b>0.1%</b>	<b>2.6%</b>	0.0%	<b>0.5%</b>	<b>5.6%</b>	0.0%	0.0%	0.0%	<b>58.4%</b>	<b>7.6%</b>	0.0%	<b>16.3%</b>	<b>100.0%</b>	

**Exhibit 30b Brooklyn Paper - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
#1 PET Thermoforms	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	1.0%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%
<b>Total</b>		<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.4%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>2.4%</b>	

**Exhibit 30b Brooklyn Paper - Plastic Resin Composition - continued**

Absolute Composition, Tons

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	114	16	40	27	0	0	2	0	0	1	0	0	0	0	0	0	2	204
#1 PET Thermoforms	Rigid Containers/Packaging	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0	0	0	1	0	2	9	0	0	4	0	0	0	0	0	0	6	22
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	55	75
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	4	0	0	0	0	0	6	5	7	0	0	0	0	0	0	0	20	42
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	0	17	0	0	17	0	0	0	0	0	0	0	0	0	0	35
Other PVC	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Plastics	Other Rigid Plastic	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	129	131
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	122	0	0	0	0	0	0	0	0	122
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	211	0	0	0	0	211
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	873	0	0	0	0	873
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	140	0	0	0	0	140
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	110	0	0	0	110
<b>Total</b>		<b>157</b>	<b>40</b>	<b>47</b>	<b>0</b>	<b>2</b>	<b>55</b>	<b>0</b>	<b>16</b>	<b>130</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>1,224</b>	<b>111</b>	<b>0</b>	<b>220</b>	<b>2,009</b>	

Exhibit 30b Brooklyn Paper - Plastic Resin Type Breakdown by Plastic Subcategory - continued

Relative % (% of subcategory for that resin)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Expanded		Expanded									Labeled Resin
Plastic Bottles	Rigid Containers/Packaging	72.2%	10.3%	100.0%	57.9%	0.0%	0.0%	4.5%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	10.1%
#1 PET Thermoforms	Rigid Containers/Packaging	14.3%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	2.6%	0.0%	100.0%	15.9%	0.0%	0.0%	75.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	1.1%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	69.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	3.7%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	11.4%	0.0%	30.8%	5.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%	2.1%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.4%	0.4%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	36.8%	0.0%	0.0%	31.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.8%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	58.5%	6.5%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	94.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.2%	0.0%	0.0%	0.0%	0.0%	10.5%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	71.3%	0.0%	0.0%	0.0%	0.0%	43.5%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.4%	0.0%	0.0%	0.0%	0.0%	7.0%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	98.9%	0.0%	0.0%	0.0%	5.5%
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Exhibit 30b Brooklyn Paper - Plastic Subcategory Breakdown by Resin Type - continued

Relative % (% of resin for that category)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Expanded		Expanded									Labeled Resin
Plastic Bottles	Rigid Containers/Packaging	55.8%	8.0%	19.6%	13.5%	0.0%	0.0%	1.2%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	100.0%
#1 PET Thermoforms	Rigid Containers/Packaging	100.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	5.6%	0.0%	11.1%	38.9%	0.0%	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.8%	100.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	26.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	73.3%	100.0%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	8.8%	0.0%	0.0%	0.0%	0.0%	0.0%	14.7%	0.0%	11.8%	17.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	47.1%	100.0%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	1.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	98.1%	100.0%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
<b>Total</b>		<b>7.8%</b>		<b>2.0%</b>	<b>2.4%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>2.7%</b>	<b>0.0%</b>	<b>0.8%</b>	<b>6.5%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>60.9%</b>	<b>5.5%</b>	<b>0.0%</b>	<b>10.9%</b>	<b>100.0%</b>

**Exhibit 30c Manhattan Paper - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Expanded		#6 PS Expanded									
Plastic Bottles	Rigid Containers/Packaging	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
#1 PET Thermoforms	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Appliances: Plastic	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	1.2%
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%
<b>Total</b>		<b>0.1%</b>		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.5%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>2.5%</b>	

**Exhibit 30c Manhattan Paper - Plastic Resin Composition - continued**

Absolute Composition, Tons

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Expanded		#6 PS Expanded									
Plastic Bottles	Rigid Containers/Packaging	63	5	10	23	0	0	0	0	0	2	0	0	0	0	0	0	1	104
#1 PET Thermoforms	Rigid Containers/Packaging	18		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0	0	0	0	0	1	23	0	0	0	0	0	0	0	0	0	13	37
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0		0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0		0	0	0	0	17	0	0	0	0	0	0	0	0	0	22	39
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	2		0	0	0	0	2	8	2	0	0	0	0	0	0	0	11	25
Appliances: Plastic	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0		0	0	0	0	0	13	0	0	0	0	0	0	0	0	30	44
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other PVC	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Plastics	Other Rigid Plastic	0		0	1	0	0	2	0	0	0	0	0	0	0	0	0	209	212
#6 EPS Containers/Packaging	Expanded Polystyrene	0		0	0	0	0	0	0	72	0	0	0	0	0	0	0	0	72
Film Plastic: Retail Bags and Sleeves	Film	0		0	0	0	0	0	0	0	0	0	0	82	0	0	0	0	82
Film Plastic: Garbage Bags	Film	0		0	0	0	0	0	0	0	0	0	0	848	0	0	0	0	848
Film Plastic: Food/Drink Pouches	Film	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Other #2/#4 Polyethylene	Film	0		0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	100
Film Plastic: Other Non-PE/Contaminated	Film	0		0	0	0	0	0	0	0	0	0	0	0	113	0	0	0	113
<b>Total</b>		<b>89</b>		<b>10</b>	<b>24</b>	<b>0</b>	<b>1</b>	<b>45</b>	<b>0</b>	<b>40</b>	<b>74</b>	<b>2</b>	<b>0</b>	<b>1,030</b>	<b>113</b>	<b>0</b>	<b>286</b>	<b>1,714</b>	

Exhibit 30c Manhattan Paper - Plastic Resin Type Breakdown by Plastic Subcategory - continued

Relative % (% of subcategory for that resin)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total		
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									#6 PS Rigid	Expanded
Plastic Bottles	Rigid Containers/Packaging	70.7%	6.1%	100.0%	95.5%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	6.1%	
#1 PET Thermoforms	Rigid Containers/Packaging	20.7%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	51.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.6%	2.2%	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	48.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.6%	2.3%	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	4.9%	0.0%	18.9%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.8%	1.5%	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.6%	2.5%	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Other Plastics	Other Rigid Plastic	0.0%	0.0%	4.5%	0.0%	0.0%	0.0%	4.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	73.0%	12.4%	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	97.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.2%	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%	0.0%	0.0%	0.0%	4.8%	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.4%	0.0%	0.0%	0.0%	49.5%	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.7%	0.0%	0.0%	0.0%	5.8%	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	6.6%	
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	

Exhibit 30c Manhattan Paper - Plastic Subcategory Breakdown by Resin Type - continued

Relative % (% of resin for that category)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									#6 PS Rigid
Plastic Bottles	Rigid Containers/Packaging	60.4%	5.2%	9.4%	21.9%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	100.0%
#1 PET Thermoforms	Rigid Containers/Packaging	100.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	61.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.3%	100.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	55.6%	100.0%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	8.7%	0.0%	0.0%	0.0%	0.0%	0.0%	8.7%	0.0%	30.4%	8.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	43.5%	100.0%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	70.0%	100.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	98.5%	100.0%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
<b>Total</b>		<b>5.2%</b>		<b>0.6%</b>	<b>1.4%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>2.6%</b>	<b>0.0%</b>	<b>2.3%</b>	<b>4.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>60.1%</b>	<b>6.6%</b>	<b>0.0%</b>	<b>16.7%</b>	<b>100.0%</b>



Exhibit 30d Queens Paper - Plastic Resin Composition

Absolute Composition, Percentage of Waste Stream

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
#1 PET Thermoforms	Rigid Containers/Packaging	0.1%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Appliances: Plastic	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.3%
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	1.0%
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.2%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%
<b>Total</b>		<b>0.3%</b>		<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>1.5%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>2.8%</b>	

Exhibit 30d Queens Paper - Plastic Resin Composition - continued

Absolute Composition, Tons

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	148	28	79	32	0	0	11	0	0	0	13	0	0	0	0	0	0	5	317
#1 PET Thermoforms	Rigid Containers/Packaging	51		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0		0	17	0	4	27	0	0	0	0	0	0	0	0	0	0	19	66
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0		0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0		0	3	2	0	6	0	0	0	3	0	0	0	0	0	0	80	95
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0		0	0	0	0	3	0	8	8	0	0	0	0	0	0	0	19	38
Appliances: Plastic	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	54
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	33	35
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	39	40
Other PVC	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Plastics	Other Rigid Plastic	0		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	98	100
#6 EPS Containers/Packaging	Expanded Polystyrene	0		0	0	0	0	0	0	0	149	0	0	0	0	0	0	0	0	149
Film Plastic: Retail Bags and Sleeves	Film	0		0	0	0	0	0	0	0	0	0	0	0	200	0	0	0	0	200
Film Plastic: Garbage Bags	Film	0		0	0	0	0	0	0	0	0	0	0	0	799	0	0	0	0	799
Film Plastic: Food/Drink Pouches	Film	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Other #2/#4 Polyethylene	Film	0		0	0	0	0	0	0	0	0	0	0	0	174	0	0	0	0	174
Film Plastic: Other Non-PE/Contaminated	Film	0		0	0	0	0	0	0	0	0	0	0	0	0	121	0	0	0	121
<b>Total</b>		<b>226</b>		<b>79</b>	<b>52</b>	<b>2</b>	<b>4</b>	<b>51</b>	<b>0</b>	<b>22</b>	<b>157</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>1,174</b>	<b>121</b>	<b>0</b>	<b>347</b>	<b>2,250</b>	

Exhibit 30d Queens Paper - Plastic Resin Type Breakdown by Plastic Subcategory - continued

Relative % (% of subcategory for that resin)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	65.3%	12.3%	100.0%	62.0%	0.0%	0.0%	22.4%	0.0%	0.0%	81.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	14.1%
#1 PET Thermoforms	Rigid Containers/Packaging	22.4%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.2%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	32.0%	0.0%	100.0%	53.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%	2.9%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	52.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	6.0%	100.0%	0.0%	0.0%	12.2%	0.0%	0.0%	18.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.2%	4.2%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%	0.0%	38.1%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.4%	1.7%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.5%	2.4%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.5%	1.6%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.3%	1.8%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.3%	4.4%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	94.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.6%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.1%	0.0%	0.0%	0.0%	0.0%	8.9%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	68.1%	0.0%	0.0%	0.0%	0.0%	35.5%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.9%	0.0%	0.0%	0.0%	0.0%	7.7%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	5.4%
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Exhibit 30d Queens Paper - Plastic Subcategory Breakdown by Resin Type - continued

Relative % (% of resin for that category)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	46.6%	8.8%	25.1%	10.1%	0.0%	0.0%	3.6%	0.0%	0.0%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	100.0%
#1 PET Thermoforms	Rigid Containers/Packaging	100.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	25.0%	0.0%	6.2%	40.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.1%	100.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	3.3%	2.2%	0.0%	0.0%	6.5%	0.0%	0.0%	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	84.8%	100.0%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.1%	0.0%	21.6%	21.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	48.6%	100.0%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	94.1%	100.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	97.4%	100.0%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	97.9%	100.0%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
<b>Total</b>		<b>10.0%</b>		<b>3.5%</b>	<b>2.3%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>2.2%</b>	<b>0.0%</b>	<b>1.0%</b>	<b>7.0%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>52.2%</b>	<b>5.4%</b>	<b>0.0%</b>	<b>15.4%</b>	<b>100.0%</b>

**Exhibit 30e Staten Island Paper - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
#1 PET Thermoforms	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2%
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.5%
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%
<b>Total</b>		<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.8%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>1.8%</b>	

**Exhibit 30e Staten Island Paper - Plastic Resin Composition - continued**

Absolute Composition, Tons

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	40	0	8	10	0	4	2	0	0	0	0	0	0	0	0	0	0	60
#1 PET Thermoforms	Rigid Containers/Packaging	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	3	8
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	27	35
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	1	0	0	0	0	0	2	3	1	0	0	0	0	0	0	0	4	12
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	16	19
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other PVC	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Plastics	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	39
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	51	0	0	0	0	51
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	119	0	0	0	0	119
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	30
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	25
<b>Total</b>		<b>53</b>	<b>8</b>	<b>10</b>	<b>0</b>	<b>4</b>	<b>15</b>	<b>0</b>	<b>6</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200</b>	<b>25</b>	<b>0</b>	<b>77</b>	<b>439</b>	

Exhibit 30e Staten Island Paper - Plastic Resin Type Breakdown by Plastic Subcategory - continued

Relative % (% of subcategory for that resin)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	75.9%	0.9%	94.4%	95.5%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.7%
#1 PET Thermoforms	Rigid Containers/Packaging	20.5%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.5%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%		5.6%	4.5%	0.0%	22.2%	21.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.7%	1.8%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	41.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	100.0%	0.0%	50.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.8%	8.0%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	2.7%		0.0%	0.0%	0.0%	0.0%	15.6%	0.0%	58.3%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.5%	2.8%
Appliances: Plastic	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	77.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.1%	4.3%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	36.0%	6.3%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	97.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.9%
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.4%	0.0%	0.0%	0.0%	0.0%	11.6%
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	59.7%	0.0%	0.0%	0.0%	0.0%	27.1%
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9%	0.0%	0.0%	0.0%	0.1%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.8%	0.0%	0.0%	0.0%	0.0%	6.7%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	98.1%	0.0%	0.0%	0.0%	5.7%
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Exhibit 30e Staten Island Paper - Plastic Subcategory Breakdown by Resin Type - continued

Relative % (% of resin for that category)

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	66.4%	0.8%	13.3%	16.4%	0.0%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
#1 PET Thermoforms	Rigid Containers/Packaging	100.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	0.0%		5.9%	5.9%	0.0%	11.8%	41.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.3%	100.0%
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Other Rigid Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	1.3%	0.0%	21.3%	0.0%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	76.0%	100.0%
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	11.5%		0.0%	0.0%	0.0%	0.0%	19.2%	0.0%	26.9%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.6%	100.0%
Appliances: Plastic	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	17.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	82.5%	100.0%
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastics	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
<b>Total</b>		<b>12.0%</b>		<b>1.9%</b>	<b>2.4%</b>	<b>0.1%</b>	<b>1.0%</b>	<b>3.4%</b>	<b>0.0%</b>	<b>1.3%</b>	<b>9.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>45.4%</b>	<b>5.8%</b>	<b>0.0%</b>	<b>17.6%</b>	<b>100.0%</b>	

**Exhibit 31a Bronx Refuse - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>1.1%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>1.9%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>0.1%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.1%</b>		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.6%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.4%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.5%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.8%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.5%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	<b>0.9%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.7%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.8%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>3.2%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.5%</b>	0.0%	0.0%	0.0%	<b>1.5%</b>
<b>Total</b>		<b>1.4%</b>		<b>0.3%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>1.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>6.6%</b>	<b>1.6%</b>	<b>0.0%</b>	<b>2.9%</b>	<b>15.1%</b>	

**Exhibit 31a Bronx Refuse - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>4,620</b>	<b>630</b>	<b>1,280</b>	<b>1,225</b>	9	0	<b>110</b>	0	0	0	<b>66</b>	<b>16</b>	0	0	0	23	<b>151</b>	<b>8,129</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>359</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>359</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>268</b>		<b>76</b>	<b>121</b>	<b>7</b>	<b>55</b>	<b>804</b>	0	0	0	<b>32</b>	0	0	0	0	0	<b>1,415</b>	<b>2,777</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	0	<b>552</b>	0	0	0	0	0	0	0	0	0	<b>552</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>185</b>	<b>11</b>	<b>50</b>	<b>25</b>	<b>21</b>	<b>382</b>	<b>9</b>	<b>37</b>	0	0	<b>37</b>	0	0	0	0	2	<b>1,051</b>	<b>1,774</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>85</b>	0	0	0	0	0	<b>224</b>	0	<b>405</b>	<b>1,973</b>	<b>76</b>	0	0	0	0	0	<b>765</b>	<b>3,528</b>	
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,973</b>	<b>1,973</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	0	<b>5</b>	0	0	<b>142</b>	0	<b>5</b>	0	<b>5</b>	0	0	0	0	0	<b>3,866</b>	<b>4,022</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	<b>858</b>	0	0	0	<b>69</b>	0	0	0	0	0	0	0	0	0	<b>188</b>	<b>1,115</b>	
Other PVC	Other Rigid Plastic	0	0	0	0	<b>9</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>9</b>
Other Plastics	Other Rigid Plastic	0	0	<b>195</b>	0	0	0	<b>82</b>	0	<b>14</b>	0	0	0	0	0	0	0	<b>2,887</b>	<b>3,177</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	0	<b>2,301</b>	0	0	0	0	0	0	0	0	<b>2,301</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>11,872</b>	0	0	0	<b>11,872</b>	
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>13,626</b>	0	0	0	<b>13,626</b>	
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>233</b>	0	0	0	<b>233</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>2,706</b>	0	0	0	<b>2,706</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>6,520</b>	0	0	0	<b>6,520</b>
<b>Total</b>		<b>6,147</b>		<b>1,367</b>	<b>2,454</b>	<b>50</b>	<b>76</b>	<b>1,813</b>	<b>9</b>	<b>975</b>	<b>4,274</b>	<b>215</b>	<b>16</b>	<b>0</b>	<b>28,204</b>	<b>6,753</b>	<b>25</b>	<b>12,295</b>	<b>64,673</b>	

**Exhibit 31a Bronx Refuse - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>75.2%</b>	<b>10.2%</b>	<b>93.6%</b>	<b>49.9%</b>	<b>18.2%</b>	0.0%	<b>6.1%</b>	0.0%	0.0%	0.0%	<b>30.9%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>90.9%</b>	<b>1.2%</b>	<b>12.6%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>5.8%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>4.4%</b>	<b>5.5%</b>	<b>4.9%</b>	<b>13.6%</b>	<b>72.7%</b>	<b>44.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>14.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.5%</b>	<b>4.3%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>56.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>3.0%</b>	<b>0.8%</b>	<b>2.1%</b>	<b>50.0%</b>	<b>27.3%</b>	<b>21.1%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>17.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>9.1%</b>	<b>8.5%</b>	<b>2.7%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>12.4%</b>	0.0%	<b>41.5%</b>	<b>46.2%</b>	<b>35.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.2%</b>	<b>5.5%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>16.0%</b>	<b>3.1%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	<b>7.8%</b>	0.0%	<b>0.5%</b>	0.0%	<b>2.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>31.4%</b>	<b>6.2%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>35.0%</b>	0.0%	0.0%	0.0%	<b>3.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.5%</b>	<b>1.7%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>18.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>7.9%</b>	0.0%	0.0%	0.0%	<b>4.5%</b>	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>23.5%</b>	<b>4.9%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>53.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.6%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>42.1%</b>	0.0%	0.0%	0.0%	<b>18.4%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>48.3%</b>	0.0%	0.0%	0.0%	<b>21.1%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.5%</b>	0.0%	0.0%	<b>0.4%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.6%</b>	0.0%	0.0%	0.0%	<b>4.2%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>96.5%</b>	0.0%	0.0%	<b>10.1%</b>
<b>Total</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 31a Bronx Refuse - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>56.8%</b>	<b>7.7%</b>	<b>15.7%</b>	<b>15.1%</b>	<b>0.1%</b>	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>1.9%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>9.6%</b>	<b>2.7%</b>	<b>4.4%</b>	<b>0.2%</b>	<b>2.0%</b>	<b>28.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>50.9%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>10.5%</b>	<b>0.6%</b>	<b>2.8%</b>	<b>1.4%</b>	<b>1.2%</b>	<b>21.5%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>2.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>59.2%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>2.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.4%</b>	0.0%	<b>11.5%</b>	<b>55.9%</b>	<b>2.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>21.7%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>3.5%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>96.1%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>77.0%</b>	0.0%	0.0%	0.0%	<b>6.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>16.8%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>6.1%</b>	0.0%	0.0%	0.0%	<b>2.6%</b>	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>90.9%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>9.5%</b>	<b>2.1%</b>	<b>3.8%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>2.8%</b>	<b>0.0%</b>	<b>1.5%</b>	<b>6.6%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>43.6%</b>	<b>10.4%</b>	<b>0.0%</b>	<b>19.0%</b>	<b>100.0%</b>

**Exhibit 31b Brooklyn Refuse - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>0.8%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>1.4%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>0.1%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>		<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.6%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.5%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>		0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.5%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>1.2%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%		0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.3%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>		0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Plastics	Other Rigid Plastic	0.0%		0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>0.8%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.9%</b>	0.0%	0.0%	0.0%	<b>2.9%</b>
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.4%</b>	0.0%	0.0%	0.0%	<b>2.4%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	0.0%	0.0%	<b>1.1%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>	0.0%	0.0%	<b>1.2%</b>
<b>Total</b>		<b>1.1%</b>		<b>0.3%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>1.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>6.4%</b>	<b>1.2%</b>	<b>0.0%</b>	<b>2.4%</b>	<b>13.8%</b>

**Exhibit 31b Brooklyn Refuse - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>6,334</b>	<b>574</b>	<b>2,231</b>	<b>1,450</b>	<b>25</b>	<b>17</b>	<b>323</b>	0	<b>17</b>	0	<b>50</b>	<b>17</b>	0	0	0	<b>8</b>	<b>168</b>	<b>11,213</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>725</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>725</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>372</b>		<b>42</b>	<b>260</b>	0	<b>132</b>	<b>2,315</b>	0	0	0	<b>53</b>	0	0	0	0	0	<b>1,710</b>	<b>4,884</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0		0	0	0	0	0	0	<b>1,161</b>	0	0	0	0	0	0	0	0	<b>1,161</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>381</b>		<b>6</b>	<b>171</b>	<b>34</b>	<b>67</b>	<b>851</b>	<b>39</b>	0	0	<b>78</b>	<b>14</b>	0	0	0	<b>11</b>	<b>2,116</b>	<b>3,767</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>403</b>		0	0	0	0	<b>1,106</b>	0	<b>1,830</b>	<b>3,759</b>	<b>36</b>	0	0	0	0	0	<b>2,399</b>	<b>9,533</b>
Appliances: Plastic	Other Rigid Plastic	0		0	<b>288</b>	0	0	0	0	<b>20</b>	0	0	0	0	0	0	0	<b>2,320</b>	<b>2,628</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>406</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	<b>11</b>		<b>6</b>	0	0	0	<b>148</b>	0	<b>6</b>	0	<b>3</b>	0	0	0	0	0	<b>3,146</b>	<b>3,320</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>3</b>		0	0	0	<b>22</b>	<b>104</b>	0	<b>20</b>	0	<b>3</b>	0	0	0	0	0	<b>901</b>	<b>1,052</b>
Other PVC	Other Rigid Plastic	0		0	0	<b>1,007</b>	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,007</b>
Other Plastics	Other Rigid Plastic	0		0	<b>165</b>	0	0	<b>50</b>	<b>6</b>	<b>31</b>	0	0	0	0	0	0	0	<b>6,199</b>	<b>6,451</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0		0	0	0	0	0	0	0	<b>4,089</b>	0	0	0	0	0	0	0	<b>4,089</b>
Film Plastic: Retail Bags and Sleeves	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>23,769</b>	0	0	0	<b>23,769</b>
Film Plastic: Garbage Bags	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>19,697</b>	0	0	0	<b>19,697</b>
Film Plastic: Food/Drink Pouches	Film	0		0	0	0	0	0	0	0	0	0	0	0	0	<b>361</b>	0	0	<b>361</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0		0	0	0	0	0	0	0	0	0	0	0	<b>8,763</b>	0	0	0	<b>8,763</b>
Film Plastic: Other Non-PE/Contaminated	Film	0		0	0	0	0	0	0	0	0	0	0	0	0	<b>9,538</b>	0	0	<b>9,538</b>
<b>Total</b>		<b>8,791</b>		<b>2,289</b>	<b>2,340</b>	<b>1,066</b>	<b>237</b>	<b>4,896</b>	<b>45</b>	<b>3,084</b>	<b>7,848</b>	<b>224</b>	<b>31</b>	<b>0</b>	<b>52,229</b>	<b>9,899</b>	<b>20</b>	<b>19,366</b>	<b>112,365</b>

**Exhibit 31b Brooklyn Refuse - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>72.0%</b>	<b>6.5%</b>	<b>97.4%</b>	<b>62.0%</b>	<b>2.4%</b>	<b>7.1%</b>	<b>6.6%</b>	0.0%	<b>0.5%</b>	0.0%	<b>22.5%</b>	<b>54.5%</b>	0.0%	0.0%	0.0%	<b>42.9%</b>	<b>0.9%</b>	<b>10.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>8.2%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>4.2%</b>	<b>1.8%</b>	<b>11.1%</b>	0.0%	<b>55.4%</b>	<b>47.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>23.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>8.8%</b>	<b>4.3%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>37.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>4.3%</b>	<b>0.2%</b>	<b>7.3%</b>	<b>3.2%</b>	<b>28.1%</b>	<b>17.4%</b>	<b>87.5%</b>	0.0%	0.0%	0.0%	<b>35.0%</b>	<b>45.5%</b>	0.0%	0.0%	0.0%	<b>57.1%</b>	<b>10.9%</b>	<b>3.4%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>4.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>22.6%</b>	<b>47.9%</b>	<b>16.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>12.4%</b>	<b>8.5%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	<b>12.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>12.0%</b>	<b>2.3%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.1%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.5%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>3.0%</b>	0.0%	<b>0.2%</b>	0.0%	<b>1.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>16.2%</b>	<b>3.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>9.4%</b>	<b>2.1%</b>	0.0%	<b>0.6%</b>	0.0%	<b>1.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.7%</b>	<b>0.9%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>94.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>7.1%</b>	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>12.5%</b>	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>32.0%</b>	<b>5.7%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>52.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.6%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>45.5%</b>	0.0%	0.0%	0.0%	<b>21.2%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>37.7%</b>	0.0%	0.0%	0.0%	<b>17.5%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.6%</b>	0.0%	0.0%	<b>0.3%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>16.8%</b>	0.0%	0.0%	0.0%	<b>7.8%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>96.4%</b>	0.0%	0.0%	<b>8.5%</b>
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 31b Brooklyn Refuse - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>56.5%</b>	<b>5.1%</b>	<b>19.9%</b>	<b>12.9%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>2.9%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.4%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>1.5%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>7.6%</b>	<b>0.9%</b>	<b>5.3%</b>	0.0%	<b>2.7%</b>	<b>47.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>35.0%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>10.1%</b>	<b>0.1%</b>	<b>4.5%</b>	<b>0.9%</b>	<b>1.8%</b>	<b>22.6%</b>	<b>1.0%</b>	0.0%	0.0%	0.0%	<b>2.1%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>56.2%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>4.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.6%</b>	0.0%	<b>19.2%</b>	<b>39.4%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>25.2%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	<b>11.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>88.3%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.3%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>4.5%</b>	0.0%	<b>0.2%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>94.8%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.1%</b>	<b>9.8%</b>	0.0%	<b>1.9%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>85.6%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>2.6%</b>	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>0.1%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>96.1%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>7.8%</b>		<b>2.0%</b>	<b>2.1%</b>	<b>0.9%</b>	<b>0.2%</b>	<b>4.4%</b>	<b>0.0%</b>	<b>2.7%</b>	<b>7.0%</b>	<b>0.2%</b>	<b>0.0%</b>	0.0%	<b>46.5%</b>	<b>8.8%</b>	<b>0.0%</b>	<b>17.2%</b>	<b>100.0%</b>



**Exhibit 31c Manhattan Refuse - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>0.9%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>1.7%</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>1.2%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.7%</b>	<b>1.1%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.8%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.2%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.5%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.7%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.8%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>3.7%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	<b>1.4%</b>
<b>Total</b>			<b>1.6%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>7.6%</b>	<b>1.4%</b>	<b>0.0%</b>	<b>2.9%</b>	<b>16.2%</b>	

**Exhibit 31c Manhattan Refuse - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>4,065</b>	<b>378</b>	<b>1,036</b>	<b>1,338</b>	<b>2</b>	<b>7</b>	<b>109</b>	0	0	0	<b>71</b>	0	0	0	0	26	<b>203</b>	<b>7,235</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>894</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>894</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>523</b>	<b>17</b>	<b>106</b>	<b>7</b>	<b>78</b>	<b>2,003</b>	0	0	0	0	<b>14</b>	0	0	0	0	0	<b>2,615</b>	<b>5,363</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	0	<b>1,237</b>	0	0	0	0	0	0	0	0	0	<b>1,237</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>501</b>	<b>7</b>	<b>90</b>	<b>28</b>	<b>19</b>	<b>1,040</b>	0	0	0	0	<b>35</b>	<b>2</b>	0	0	0	<b>9</b>	<b>2,920</b>	<b>4,653</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>385</b>	0	0	0	0	0	<b>329</b>	0	<b>575</b>	<b>813</b>	<b>78</b>	0	0	0	0	2	<b>1,140</b>	<b>3,322</b>	
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>785</b>	<b>785</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	<b>2</b>	0	0	0	0	0	0	0	0	0	0	0	<b>2</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	<b>9</b>	0	<b>248</b>	<b>73</b>	0	0	0	0	0	0	0	0	0	0	<b>1,780</b>	<b>2,111</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	0	0	0	0	<b>5</b>	0	<b>73</b>	0	0	0	0	0	0	0	<b>338</b>	<b>416</b>	
Other PVC	Other Rigid Plastic	0	0	0	0	<b>14</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>14</b>
Other Plastics	Other Rigid Plastic	<b>64</b>	0	<b>234</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>2,918</b>	<b>3,216</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	0	<b>2,099</b>	0	0	0	0	0	0	0	0	<b>2,099</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>12,242</b>	0	0	0	0	<b>12,242</b>
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>15,968</b>	0	0	0	0	<b>15,968</b>
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>121</b>	0	0	0	<b>121</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>4,890</b>	0	0	0	0	<b>4,890</b>
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>6,181</b>	0	0	0	<b>6,181</b>
<b>Total</b>		<b>6,810</b>	<b>1,059</b>	<b>1,778</b>	<b>52</b>	<b>352</b>	<b>3,561</b>	<b>0</b>	<b>1,884</b>	<b>2,912</b>	<b>199</b>	<b>2</b>	<b>0</b>	<b>33,100</b>	<b>6,301</b>	<b>38</b>	<b>12,700</b>	<b>70,749</b>		

**Exhibit 31c Manhattan Refuse - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>59.7%</b>	<b>5.6%</b>	<b>97.8%</b>	<b>75.3%</b>	<b>4.5%</b>	<b>2.0%</b>	<b>3.1%</b>	0.0%	0.0%	0.0%	<b>35.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>68.8%</b>	<b>1.6%</b>	<b>10.2%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>13.1%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.3%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>7.7%</b>	<b>1.6%</b>	<b>6.0%</b>	<b>13.6%</b>	<b>22.1%</b>	<b>56.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>7.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>20.6%</b>	<b>7.6%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>65.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>7.4%</b>	<b>0.7%</b>	<b>5.1%</b>	<b>54.5%</b>	<b>5.4%</b>	<b>29.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>17.9%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>25.0%</b>	<b>23.0%</b>	<b>6.6%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>5.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.2%</b>	0.0%	<b>30.5%</b>	<b>27.9%</b>	<b>39.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.2%</b>	<b>9.0%</b>	<b>4.7%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.2%</b>	<b>1.1%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.5%</b>	0.0%	<b>70.5%</b>	<b>2.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.0%</b>	<b>3.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>3.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.7%</b>	<b>0.6%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>27.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.9%</b>	0.0%	<b>13.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>23.0%</b>	<b>4.5%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>72.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>37.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>17.3%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>48.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>22.6%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.9%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.8%</b>	0.0%	0.0%	0.0%	0.0%	<b>6.9%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>98.1%</b>	0.0%	0.0%	0.0%	<b>8.7%</b>
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 31c Manhattan Refuse - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>56.2%</b>	<b>5.2%</b>	<b>14.3%</b>	<b>18.5%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>1.5%</b>	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>2.8%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>9.7%</b>	<b>0.3%</b>	<b>2.0%</b>	<b>0.1%</b>	<b>1.5%</b>	<b>37.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>48.8%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>10.8%</b>	<b>0.2%</b>	<b>1.9%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>22.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>62.8%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>11.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.9%</b>	0.0%	<b>17.3%</b>	<b>24.5%</b>	<b>2.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>34.3%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.4%</b>	0.0%	<b>11.8%</b>	<b>3.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>84.3%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	<b>17.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>81.3%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	<b>2.0%</b>	0.0%	<b>7.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>90.7%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>9.6%</b>		<b>1.5%</b>	<b>2.5%</b>	<b>0.1%</b>	<b>0.5%</b>	<b>5.0%</b>	0.0%	<b>2.7%</b>	<b>4.1%</b>	<b>0.3%</b>	<b>0.0%</b>	0.0%	<b>46.8%</b>	<b>8.9%</b>	<b>0.1%</b>	<b>18.0%</b>	<b>100.0%</b>	

**Exhibit 31d Queens Refuse - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>0.7%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>1.2%</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.4%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>	<b>0.6%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.5%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.9%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.8%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.5%</b>	0.0%	0.0%	0.0%	<b>2.5%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.1%</b>	0.0%	0.0%	0.0%	<b>2.1%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	0.0%	0.0%	0.0%	<b>0.8%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>	0.0%	0.0%	<b>1.2%</b>
<b>Total</b>			<b>0.9%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>1.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>5.4%</b>	<b>1.2%</b>	<b>0.0%</b>	<b>2.1%</b>	<b>12.0%</b>

**Exhibit 31d Queens Refuse - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>5,104</b>	<b>531</b>	<b>1,237</b>	<b>1,208</b>	<b>3</b>	<b>20</b>	<b>283</b>	0	<b>6</b>	0	<b>79</b>	<b>9</b>	0	0	0	0	<b>193</b>	<b>8,674</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>391</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>391</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>64</b>	<b>6</b>	<b>85</b>	0	0	<b>111</b>	<b>1,378</b>	0	0	0	<b>38</b>	0	0	0	0	0	<b>1,360</b>	<b>3,041</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	0	<b>1,246</b>	0	0	0	0	0	0	0	0	<b>1,246</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>263</b>	<b>6</b>	<b>105</b>	<b>12</b>	<b>32</b>	<b>610</b>	<b>6</b>	0	0	0	<b>93</b>	<b>6</b>	0	0	0	<b>15</b>	<b>3,053</b>	<b>4,200</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>236</b>	0	0	0	0	<b>447</b>	0	<b>1,229</b>	<b>3,359</b>	<b>3</b>	0	0	0	0	0	0	<b>1,185</b>	<b>6,459</b>
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>169</b>	<b>169</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	<b>169</b>	0	0	0	<b>324</b>	0	<b>6</b>	0	0	0	<b>117</b>	0	0	0	<b>3,266</b>	<b>3,882</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	<b>633</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>385</b>	<b>1,019</b>
Other PVC	Other Rigid Plastic	0	0	0	<b>23</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>23</b>
Other Plastics	Other Rigid Plastic	0	<b>3</b>	<b>47</b>	0	<b>3</b>	<b>79</b>	<b>6</b>	<b>3</b>	0	0	0	0	0	0	0	0	<b>5,317</b>	<b>5,458</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	<b>4,177</b>	0	0	0	0	0	0	0	0	<b>4,177</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>18,050</b>	0	0	0	<b>18,050</b>
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>15,077</b>	0	0	0	<b>15,077</b>
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>254</b>	0	0	<b>254</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>5,746</b>	0	0	0	<b>5,746</b>
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>8,449</b>	0	0	<b>8,449</b>
<b>Total</b>			<b>6,590</b>	<b>1,252</b>	<b>2,247</b>	<b>38</b>	<b>166</b>	<b>3,120</b>	<b>12</b>	<b>2,489</b>	<b>7,536</b>	<b>213</b>	<b>15</b>	<b>117</b>	<b>38,873</b>	<b>8,703</b>	<b>15</b>	<b>14,928</b>	<b>86,313</b>

**Exhibit 31d Queens Refuse - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>77.5%</b>	<b>8.1%</b>	<b>98.8%</b>	<b>53.8%</b>	<b>7.7%</b>	<b>12.3%</b>	<b>9.1%</b>	0.0%	<b>0.2%</b>	0.0%	<b>37.0%</b>	<b>60.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.3%</b>	<b>10.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>5.9%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>1.0%</b>	<b>0.5%</b>	<b>3.8%</b>	0.0%	<b>66.7%</b>	<b>44.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>17.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.1%</b>	<b>3.5%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>50.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>4.0%</b>	<b>0.5%</b>	<b>4.7%</b>	<b>30.8%</b>	<b>19.3%</b>	<b>19.6%</b>	<b>50.0%</b>	0.0%	0.0%	0.0%	<b>43.8%</b>	<b>40.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>20.4%</b>	<b>4.9%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>3.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.3%</b>	0.0%	<b>49.4%</b>	<b>44.6%</b>	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.9%</b>	<b>7.5%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	<b>0.2%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>7.5%</b>	0.0%	0.0%	0.0%	<b>10.4%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>21.9%</b>	<b>4.5%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>28.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.6%</b>	<b>1.2%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>61.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	<b>0.2%</b>	<b>2.1%</b>	0.0%	0.0%	<b>1.8%</b>	<b>2.5%</b>	<b>50.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>35.6%</b>	<b>6.3%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>55.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.8%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>46.4%</b>	0.0%	0.0%	0.0%	<b>20.9%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>38.8%</b>	0.0%	0.0%	0.0%	<b>17.5%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.9%</b>	0.0%	0.0%	<b>0.3%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.8%</b>	0.0%	0.0%	0.0%	<b>6.7%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.1%</b>	0.0%	0.0%	<b>9.8%</b>
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 31d Queens Refuse - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>58.8%</b>	<b>6.1%</b>	<b>14.3%</b>	<b>13.9%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>3.3%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.9%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.2%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>2.1%</b>	<b>0.2%</b>	<b>2.8%</b>	0.0%	<b>3.6%</b>	<b>45.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>44.7%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>6.3%</b>	<b>0.1%</b>	<b>2.5%</b>	<b>0.3%</b>	<b>0.8%</b>	<b>14.5%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>2.2%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>72.7%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>3.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.9%</b>	0.0%	<b>19.0%</b>	<b>52.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>18.3%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>4.4%</b>	0.0%	0.0%	0.0%	<b>8.3%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>3.0%</b>	0.0%	0.0%	0.0%	<b>84.1%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>62.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>37.8%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	<b>0.1%</b>	<b>0.9%</b>	0.0%	<b>0.1%</b>	<b>1.4%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.4%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>7.6%</b>		<b>1.5%</b>	<b>2.6%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>3.6%</b>	<b>0.0%</b>	<b>2.9%</b>	<b>8.7%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>45.0%</b>	<b>10.1%</b>	<b>0.0%</b>	<b>17.3%</b>	<b>100.0%</b>

**Exhibit 31e Staten Island Refuse - Plastic Resin Composition - FINAL**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>0.7%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>1.2%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>0.1%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.5%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.4%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.4%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.6%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.5%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.3%</b>	<b>1.4%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.5%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.9%</b>	0.0%	0.0%	0.0%	<b>1.9%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>	0.0%	0.0%	0.0%	<b>1.7%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	<b>1.0%</b>	
<b>Total</b>		<b>0.9%</b>		<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>4.2%</b>	<b>1.0%</b>	<b>0.0%</b>	<b>3.0%</b>	<b>11.2%</b>	

**Exhibit 31e Staten Island Refuse - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>1,224</b>	<b>184</b>	<b>302</b>	<b>302</b>	<b>11</b>	<b>1</b>	<b>48</b>	0	0	0	<b>21</b>	<b>20</b>	0	0	0	1	<b>56</b>	<b>2,170</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>160</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>160</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>74</b>	<b>5</b>	<b>26</b>	<b>3</b>	<b>28</b>	<b>362</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>446</b>	<b>961</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	0	<b>273</b>	0	0	0	0	0	0	0	0	<b>273</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>59</b>	<b>3</b>	<b>23</b>	<b>19</b>	<b>161</b>	<b>17</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>495</b>	<b>815</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>38</b>	0	0	0	0	0	<b>83</b>	<b>452</b>	<b>333</b>	<b>6</b>	0	0	0	0	0	0	<b>238</b>	<b>1,150</b>
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>954</b>	<b>954</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	<b>12</b>	<b>15</b>	<b>127</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,388</b>	<b>2,550</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	<b>59</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>55</b>	<b>114</b>
Other PVC	Other Rigid Plastic	0	0	0	<b>136</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>136</b>
Other Plastics	Other Rigid Plastic	0	0	<b>6</b>	0	0	0	<b>2</b>	0	0	0	0	0	0	0	0	0	<b>926</b>	<b>934</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	<b>880</b>	0	0	0	0	0	0	0	0	<b>880</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>3,537</b>	0	0	0	<b>3,537</b>
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>3,154</b>	0	0	0	<b>3,154</b>
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>47</b>	0	0	<b>47</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,198</b>	0	0	0	<b>1,198</b>
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,901</b>	0	0	<b>1,901</b>
<b>Total</b>		<b>1,740</b>	<b>310</b>	<b>428</b>	<b>184</b>	<b>29</b>	<b>784</b>	<b>17</b>	<b>732</b>	<b>1,213</b>	<b>79</b>	<b>20</b>	<b>0</b>	<b>7,888</b>	<b>1,948</b>	<b>3</b>	<b>5,558</b>	<b>20,933</b>	

**Exhibit 31e Staten Island Refuse - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>70.3%</b>	<b>10.6%</b>	<b>97.4%</b>	<b>70.5%</b>	<b>6.0%</b>	<b>3.4%</b>	<b>6.1%</b>	0.0%	0.0%	0.0%	<b>26.6%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>33.3%</b>	<b>1.0%</b>	<b>10.4%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>9.2%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>4.3%</b>	<b>1.6%</b>	<b>6.1%</b>	<b>1.6%</b>	<b>96.6%</b>	<b>46.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>21.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>8.0%</b>	<b>4.6%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>37.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.3%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>3.4%</b>	<b>1.0%</b>	<b>5.4%</b>	<b>10.4%</b>	0.0%	<b>20.6%</b>	<b>100.0%</b>	0.0%	0.0%	<b>44.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>66.7%</b>	<b>8.9%</b>	<b>3.9%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>2.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>10.6%</b>	<b>0.0%</b>	<b>61.8%</b>	<b>27.4%</b>	<b>7.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.3%</b>	<b>5.5%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>17.2%</b>	<b>4.6%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>2.8%</b>	<b>8.2%</b>	0.0%	<b>16.2%</b>	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>43.0%</b>	<b>12.2%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>13.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>0.5%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>73.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>16.7%</b>	<b>4.5%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>72.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.2%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>44.8%</b>	0.0%	0.0%	0.0%	<b>16.9%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>40.0%</b>	0.0%	0.0%	0.0%	<b>15.1%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.4%</b>	0.0%	0.0%	<b>0.2%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>15.2%</b>	0.0%	0.0%	0.0%	<b>5.7%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.6%</b>	0.0%	0.0%	<b>9.1%</b>
<b>Total</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 31e Staten Island Refuse - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>56.4%</b>	<b>8.5%</b>	<b>13.9%</b>	<b>13.9%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>2.2%</b>	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>2.6%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>7.7%</b>	<b>0.5%</b>	<b>2.7%</b>	<b>0.3%</b>	<b>2.9%</b>	<b>37.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>46.4%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>7.3%</b>	<b>0.4%</b>	<b>2.8%</b>	<b>2.3%</b>	<b>19.8%</b>	<b>2.1%</b>	<b>0.0%</b>	<b>4.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>60.8%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>3.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.2%</b>	<b>39.3%</b>	<b>28.9%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>20.7%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.5%</b>	<b>0.6%</b>	0.0%	0.0%	<b>5.0%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>93.7%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>51.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>48.2%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>99.1%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>8.3%</b>	<b>1.5%</b>	<b>2.0%</b>	<b>0.9%</b>	<b>0.1%</b>	<b>3.7%</b>	<b>0.1%</b>	<b>3.5%</b>	<b>5.8%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>37.7%</b>	<b>9.3%</b>	<b>0.0%</b>	<b>26.6%</b>	<b>100.0%</b>	

**Exhibit 32a Bronx Aggregate - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>1.6%</b>	<b>0.2%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>3.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>0.1%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.1%</b>		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.7%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.4%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.1%</b>	<b>0.4%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.8%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	<b>1.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.4%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.8%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.5%</b>	0.0%	0.0%	0.0%	<b>2.5%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.1%</b>	0.0%	0.0%	0.0%	<b>3.1%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	<b>1.4%</b>
<b>Total</b>		<b>2.0%</b>		<b>0.6%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.9%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>6.1%</b>	<b>1.4%</b>	<b>0.0%</b>	<b>3.0%</b>	<b>15.7%</b>	

**Exhibit 32a Bronx Aggregate - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>7,553</b>	<b>976</b>	<b>2,917</b>	<b>2,338</b>	<b>17</b>	<b>4</b>	<b>200</b>	0	0	0	<b>109</b>	<b>41</b>	0	0	0	<b>23</b>	<b>204</b>	<b>14,381</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>554</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>554</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>269</b>		<b>85</b>	<b>194</b>	<b>7</b>	<b>89</b>	<b>1,115</b>	0	0	0	<b>34</b>	<b>8</b>	0	0	0	0	<b>1,549</b>	<b>3,349</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	0	<b>615</b>	0	0	0	0	0	0	0	0	<b>615</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>189</b>	<b>17</b>	<b>68</b>	<b>29</b>	<b>26</b>	<b>489</b>	<b>9</b>	0	0	0	<b>46</b>	0	0	0	0	<b>3</b>	<b>1,245</b>	<b>2,121</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>93</b>	0	0	0	0	0	<b>252</b>	0	<b>446</b>	<b>1,986</b>	<b>76</b>	0	0	0	0	0	<b>795</b>	<b>3,648</b>
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>2,098</b>	<b>2,098</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>9</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	<b>42</b>	0	<b>23</b>	<b>144</b>	0	0	<b>5</b>	0	<b>9</b>	0	0	0	0	0	<b>4,536</b>	<b>4,758</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	<b>35</b>	<b>1,027</b>	0	0	<b>116</b>	0	0	<b>1</b>	0	0	0	0	0	0	0	<b>781</b>	<b>1,960</b>
Other PVC	Other Rigid Plastic	0	0	0	<b>28</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>28</b>
Other Plastics	Other Rigid Plastic	<b>1</b>	0	<b>199</b>	0	0	<b>3</b>	<b>107</b>	0	<b>15</b>	0	<b>1</b>	0	0	0	0	0	<b>3,402</b>	<b>3,727</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	0	<b>2,364</b>	0	0	0	0	0	0	0	<b>2,364</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>12,121</b>	0	0	0	<b>12,121</b>
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>14,961</b>	0	0	0	<b>14,961</b>
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>239</b>	0	0	<b>239</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>2,816</b>	0	0	0	<b>2,816</b>
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>6,608</b>	0	0	<b>6,608</b>
<b>Total</b>		<b>9,634</b>		<b>3,054</b>	<b>3,868</b>	<b>81</b>	<b>145</b>	<b>2,423</b>	<b>9</b>	<b>1,083</b>	<b>4,350</b>	<b>274</b>	<b>48</b>	<b>0</b>	<b>29,899</b>	<b>6,847</b>	<b>26</b>	<b>14,619</b>	<b>76,359</b>

**Exhibit 32a Bronx Aggregate - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>78.4%</b>	<b>10.1%</b>	<b>95.5%</b>	<b>60.5%</b>	<b>20.6%</b>	<b>2.5%</b>	<b>8.3%</b>	0.0%	0.0%	0.0%	<b>39.9%</b>	<b>83.9%</b>	0.0%	0.0%	0.0%	<b>88.9%</b>	<b>1.4%</b>	<b>18.8%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>5.8%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>2.8%</b>	<b>2.8%</b>	<b>5.0%</b>	<b>8.5%</b>	<b>61.5%</b>	<b>46.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>12.3%</b>	<b>16.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>10.6%</b>	<b>4.4%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>56.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>2.0%</b>	<b>0.6%</b>	<b>1.7%</b>	<b>35.9%</b>	<b>18.2%</b>	<b>20.2%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>16.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>11.1%</b>	<b>8.5%</b>	<b>2.8%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>10.4%</b>	0.0%	<b>41.2%</b>	<b>45.7%</b>	<b>27.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.4%</b>	<b>4.8%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.4%</b>	<b>2.7%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>1.1%</b>	0.0%	<b>16.0%</b>	<b>5.9%</b>	0.0%	0.0%	<b>0.4%</b>	0.0%	<b>3.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>31.0%</b>	<b>6.2%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>1.2%</b>	<b>26.5%</b>	0.0%	0.0%	<b>4.8%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>5.3%</b>	<b>2.6%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>35.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>5.1%</b>	0.0%	<b>1.7%</b>	<b>4.4%</b>	0.0%	<b>1.4%</b>	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>23.3%</b>	<b>4.9%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>54.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.1%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>40.5%</b>	0.0%	0.0%	0.0%	<b>15.9%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>50.0%</b>	0.0%	0.0%	0.0%	<b>19.6%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.5%</b>	0.0%	0.0%	<b>0.3%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.4%</b>	0.0%	0.0%	0.0%	<b>3.7%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>96.5%</b>	0.0%	0.0%	<b>8.7%</b>
<b>Total</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 32a Bronx Aggregate - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>52.5%</b>	<b>6.8%</b>	<b>20.3%</b>	<b>16.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>1.4%</b>	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>1.4%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>8.0%</b>	<b>2.5%</b>	<b>5.8%</b>	<b>0.2%</b>	<b>2.7%</b>	<b>33.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>46.3%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>8.9%</b>	<b>0.8%</b>	<b>3.2%</b>	<b>1.4%</b>	<b>1.2%</b>	<b>23.0%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	<b>2.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>58.7%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>2.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.9%</b>	0.0%	<b>12.2%</b>	<b>54.4%</b>	<b>2.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>21.8%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.9%</b>	0.0%	<b>0.5%</b>	<b>3.0%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>95.3%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>1.8%</b>	<b>52.4%</b>	0.0%	0.0%	<b>5.9%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>39.9%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>5.3%</b>	0.0%	<b>0.1%</b>	<b>2.9%</b>	0.0%	<b>0.4%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>91.3%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>12.6%</b>	<b>4.0%</b>	<b>5.1%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>3.2%</b>	<b>0.0%</b>	<b>1.4%</b>	<b>5.7%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>39.2%</b>	<b>9.0%</b>	<b>0.0%</b>	<b>19.1%</b>	<b>100.0%</b>



**Exhibit 32b Brooklyn Aggregate - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>1.2%</b>	<b>0.1%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>2.3%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>0.1%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.0%</b>		<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.6%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.5%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.2%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>1.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.3%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.5%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>	<b>0.8%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.6%</b>	0.0%	0.0%	0.0%	<b>2.6%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>	0.0%	0.0%	0.0%	<b>2.3%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	<b>1.0%</b>
<b>Total</b>		<b>1.6%</b>		<b>0.5%</b>	<b>0.5%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>5.9%</b>	<b>1.1%</b>	<b>0.0%</b>	<b>2.3%</b>	<b>13.9%</b>

**Exhibit 32b Brooklyn Aggregate - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>11,401</b>	<b>1,080</b>	<b>4,841</b>	<b>3,623</b>	<b>52</b>	<b>26</b>	<b>577</b>	0	<b>26</b>	0	<b>121</b>	<b>103</b>	0	0	0	8	<b>251</b>	<b>22,107</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>1,333</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,333</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>375</b>		<b>48</b>	<b>284</b>	0	<b>193</b>	<b>2,934</b>	0	0	0	<b>59</b>	0	0	0	0	0	<b>1,930</b>	<b>5,822</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	0	<b>1,353</b>	0	0	0	0	0	0	0	0	<b>1,353</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>381</b>	<b>7</b>	<b>198</b>	<b>35</b>	<b>91</b>	<b>1,029</b>	<b>39</b>	0	0	0	<b>93</b>	<b>14</b>	0	0	0	<b>12</b>	<b>2,460</b>	<b>4,359</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>426</b>	0	0	0	0	0	<b>1,169</b>	0	<b>1,927</b>	<b>3,790</b>	<b>40</b>	0	0	0	0	0	<b>2,466</b>	<b>9,819</b>
Appliances: Plastic	Other Rigid Plastic	0	0	<b>288</b>	0	0	0	0	0	<b>20</b>	0	0	0	0	0	0	0	<b>2,525</b>	<b>2,833</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	<b>30</b>	0	0	0	0	0	0	0	0	0	<b>613</b>	<b>644</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	<b>11</b>	<b>242</b>	0	6	<b>332</b>	0	6	3	<b>332</b>	0	0	0	0	0	0	<b>3,817</b>	<b>4,416</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>6</b>	<b>29</b>	<b>48</b>	0	<b>22</b>	<b>126</b>	0	<b>20</b>	0	0	<b>3</b>	0	0	0	0	0	<b>978</b>	<b>1,233</b>
Other PVC	Other Rigid Plastic	0	0	0	0	<b>1,036</b>	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,036</b>
Other Plastics	Other Rigid Plastic	<b>3</b>	0	<b>173</b>	0	0	0	<b>113</b>	<b>6</b>	<b>35</b>	0	<b>3</b>	0	0	0	0	0	<b>7,353</b>	<b>7,685</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	0	<b>4,280</b>	0	0	0	0	0	0	0	<b>4,280</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>24,688</b>	0	0	0	<b>24,688</b>
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>22,445</b>	0	0	0	<b>22,445</b>
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>372</b>	0	0	<b>372</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>9,126</b>	0	0	0	<b>9,126</b>
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>9,795</b>	0	0	<b>9,795</b>
<b>Total</b>		<b>15,004</b>		<b>4,936</b>	<b>4,857</b>	<b>1,124</b>	<b>339</b>	<b>6,311</b>	<b>45</b>	<b>3,385</b>	<b>8,070</b>	<b>321</b>	<b>117</b>	0	<b>56,259</b>	<b>10,167</b>	<b>21</b>	<b>22,392</b>	<b>133,347</b>

**Exhibit 32b Brooklyn Aggregate - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded								
Plastic Bottles	Rigid Containers/Packaging	<b>76.0%</b>	<b>7.2%</b>	<b>98.1%</b>	<b>74.6%</b>	<b>4.6%</b>	<b>7.7%</b>	<b>9.1%</b>	0.0%	<b>0.8%</b>	0.0%	<b>37.5%</b>	0.0%	0.0%	0.0%	<b>40.4%</b>	<b>1.1%</b>	<b>16.6%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>8.9%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>2.5%</b>		<b>1.0%</b>	<b>5.8%</b>	0.0%	<b>56.8%</b>	<b>46.5%</b>	0.0%	0.0%	0.0%	<b>18.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>8.6%</b>	<b>4.4%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>40.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>2.5%</b>		<b>0.1%</b>	<b>4.1%</b>	<b>3.1%</b>	<b>26.9%</b>	<b>16.3%</b>	<b>87.5%</b>	0.0%	0.0%	<b>12.0%</b>	0.0%	0.0%	0.0%	<b>59.6%</b>	<b>11.0%</b>	<b>3.3%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>2.8%</b>		0.0%	0.0%	0.0%	0.0%	<b>18.5%</b>	0.0%	<b>56.9%</b>	<b>47.0%</b>	<b>12.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>11.0%</b>	<b>7.4%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%		0.0%	<b>5.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>11.3%</b>	<b>2.1%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.7%</b>	<b>0.5%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%		<b>0.2%</b>	<b>5.0%</b>	0.0%	<b>1.9%</b>	<b>5.3%</b>	0.0%	<b>0.2%</b>	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>17.0%</b>	<b>3.3%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.0%</b>		<b>0.6%</b>	<b>1.0%</b>	0.0%	<b>6.6%</b>	<b>2.0%</b>	0.0%	<b>0.6%</b>	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>4.4%</b>	<b>0.9%</b>
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	<b>92.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.8%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>		0.0%	<b>3.6%</b>	0.0%	0.0%	<b>1.8%</b>	<b>12.5%</b>	<b>1.0%</b>	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>32.8%</b>	<b>5.8%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>53.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.2%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>43.9%</b>	0.0%	0.0%	0.0%	<b>18.5%</b>
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>39.9%</b>	0.0%	0.0%	0.0%	<b>16.8%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.7%</b>	0.0%	0.0%	<b>0.3%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>16.2%</b>	0.0%	0.0%	0.0%	<b>6.8%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>96.3%</b>	0.0%	0.0%	<b>7.3%</b>
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 32b Brooklyn Aggregate - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded								
Plastic Bottles	Rigid Containers/Packaging	<b>51.6%</b>	<b>4.9%</b>	<b>21.9%</b>	<b>16.4%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>2.6%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>1.1%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>6.4%</b>		<b>0.8%</b>	<b>4.9%</b>	0.0%	<b>3.3%</b>	<b>50.4%</b>	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>33.1%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>8.7%</b>		<b>0.2%</b>	<b>4.5%</b>	<b>0.8%</b>	<b>2.1%</b>	<b>23.6%</b>	<b>0.9%</b>	0.0%	<b>2.1%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>56.4%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>4.3%</b>		0.0%	0.0%	0.0%	0.0%	<b>11.9%</b>	0.0%	<b>19.6%</b>	<b>38.6%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>25.1%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%		0.0%	<b>10.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>89.1%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%		0.0%	0.0%	0.0%	0.0%	<b>4.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>95.3%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%		<b>0.3%</b>	<b>5.5%</b>	0.0%	<b>0.1%</b>	<b>7.5%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>86.4%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0.5%</b>		<b>2.3%</b>	<b>3.9%</b>	0.0%	<b>1.8%</b>	<b>10.2%</b>	0.0%	<b>1.6%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>79.4%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%		0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>		0.0%	<b>2.3%</b>	0.0%	0.0%	<b>1.5%</b>	<b>0.1%</b>	<b>0.5%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>95.7%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>11.3%</b>		<b>3.7%</b>	<b>3.6%</b>	<b>0.8%</b>	<b>0.3%</b>	<b>4.7%</b>	<b>0.0%</b>	<b>2.5%</b>	<b>6.1%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>42.2%</b>	<b>7.6%</b>	<b>0.0%</b>	<b>16.8%</b>

**Exhibit 32c Manhattan Aggregate - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>1.2%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.4%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>2.3%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>0.3%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.1%</b>		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>1.1%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.6%</b>	<b>0.9%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.6%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.2%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.5%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>0.7%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>3.4%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>	0.0%	0.0%	0.0%	<b>1.2%</b>
<b>Total</b>		<b>1.9%</b>		<b>0.4%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.8%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>6.6%</b>	<b>1.2%</b>	<b>0.0%</b>	<b>2.6%</b>	<b>15.2%</b>	

**Exhibit 32c Manhattan Aggregate - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>6,834</b>	<b>674</b>	<b>2,249</b>	<b>2,384</b>	<b>27</b>	<b>20</b>	<b>182</b>	0	0	0	<b>92</b>	<b>33</b>	0	0	0	27	<b>258</b>	<b>12,780</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>1,396</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,396</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>523</b>		<b>20</b>	<b>117</b>	<b>7</b>	<b>124</b>	<b>2,490</b>	0	0	0	<b>15</b>	0	0	0	0	0	<b>2,798</b>	<b>6,094</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	0	<b>1,370</b>	0	0	0	0	0	0	0	0	<b>1,370</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>502</b>	<b>7</b>	<b>127</b>	<b>32</b>	<b>36</b>	<b>1,188</b>	<b>1</b>	0	0	0	<b>45</b>	<b>2</b>	0	0	0	<b>11</b>	<b>3,123</b>	<b>5,075</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>414</b>	0	0	0	0	0	<b>354</b>	0	<b>623</b>	<b>820</b>	<b>79</b>	0	0	0	0	<b>3</b>	<b>1,172</b>	<b>3,465</b>
Appliances: Plastic	Other Rigid Plastic	0	0	0	0	0	0	<b>47</b>	0	0	0	0	0	0	0	0	0	<b>954</b>	<b>1,001</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	<b>2</b>	0	0	0	0	0	0	0	0	0	0	<b>2</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	<b>11</b>	<b>0</b>	<b>248</b>	<b>117</b>	<b>0</b>	<b>13</b>	0	0	0	0	0	0	0	0	<b>2,293</b>	<b>2,682</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	<b>15</b>	<b>110</b>	0	<b>38</b>	<b>21</b>	0	<b>73</b>	0	0	0	0	0	0	0	<b>377</b>	<b>635</b>
Other PVC	Other Rigid Plastic	0	0	0	0	<b>14</b>	0	0	0	0	0	0	0	0	0	0	0	0	<b>14</b>
Other Plastics	Other Rigid Plastic	<b>64</b>	0	<b>237</b>	0	0	0	<b>21</b>	0	<b>4</b>	0	0	0	0	0	0	0	<b>3,500</b>	<b>3,826</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	0	<b>2,188</b>	0	0	0	0	0	0	0	<b>2,188</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>12,545</b>	0	0	0	<b>12,545</b>
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>18,528</b>	0	0	0	<b>18,528</b>
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>122</b>	0	0	<b>122</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>5,170</b>	0	0	0	<b>5,170</b>
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>6,365</b>	0	0	<b>6,365</b>
<b>Total</b>		<b>10,407</b>		<b>2,292</b>	<b>2,985</b>	<b>81</b>	<b>467</b>	<b>4,421</b>	<b>1</b>	<b>2,083</b>	<b>3,008</b>	<b>230</b>	<b>35</b>	<b>0</b>	<b>36,243</b>	<b>6,487</b>	<b>41</b>	<b>14,474</b>	<b>83,256</b>

**Exhibit 32c Manhattan Aggregate - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>65.7%</b>	<b>6.5%</b>	<b>98.1%</b>	<b>79.9%</b>	<b>33.1%</b>	<b>4.3%</b>	<b>4.1%</b>	0.0%	0.0%	<b>39.9%</b>	<b>93.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>64.7%</b>	<b>1.8%</b>	<b>15.3%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>13.4%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>5.0%</b>	<b>0.9%</b>	<b>3.9%</b>	<b>9.3%</b>	<b>26.6%</b>	<b>56.3%</b>	0.0%	0.0%	0.0%	<b>6.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>19.3%</b>	<b>7.3%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>65.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.6%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>4.8%</b>	<b>0.3%</b>	<b>4.2%</b>	<b>39.6%</b>	<b>7.6%</b>	<b>26.9%</b>	<b>100.0%</b>	0.0%	0.0%	<b>19.6%</b>	<b>6.7%</b>	0.0%	0.0%	0.0%	0.0%	<b>27.7%</b>	<b>21.6%</b>	<b>6.1%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>4.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>8.0%</b>	<b>29.9%</b>	<b>27.3%</b>	<b>34.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.6%</b>	<b>8.1%</b>	<b>4.2%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.6%</b>	<b>1.2%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.4%</b>	<b>0.5%</b>	<b>53.2%</b>	<b>2.7%</b>	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>15.8%</b>	<b>3.2%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>0.6%</b>	<b>3.7%</b>	0.0%	<b>8.2%</b>	<b>0.5%</b>	0.0%	<b>3.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.6%</b>	<b>0.8%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>17.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.6%</b>	0.0%	<b>7.9%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>24.2%</b>	<b>4.6%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>72.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.6%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>34.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>15.1%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>51.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>22.3%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.9%</b>	0.0%	0.0%	0.0%	<b>0.1%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>6.2%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>98.1%</b>	0.0%	0.0%	0.0%	<b>7.6%</b>
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 32c Manhattan Aggregate - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>53.5%</b>	<b>5.3%</b>	<b>17.6%</b>	<b>18.7%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>1.4%</b>	0.0%	0.0%	<b>0.7%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>2.0%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>8.6%</b>	<b>0.3%</b>	<b>1.9%</b>	<b>0.1%</b>	<b>2.0%</b>	<b>40.9%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>45.9%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>9.9%</b>	<b>0.1%</b>	<b>2.5%</b>	<b>0.6%</b>	<b>0.7%</b>	<b>23.4%</b>	<b>0.0%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.9%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>61.5%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>12.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>10.2%</b>	<b>18.0%</b>	<b>23.7%</b>	<b>2.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>33.8%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>95.3%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.4%</b>	<b>0.0%</b>	<b>9.3%</b>	<b>4.4%</b>	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>85.5%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>2.3%</b>	<b>17.3%</b>	0.0%	<b>6.0%</b>	<b>3.3%</b>	0.0%	<b>11.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>59.5%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	<b>1.7%</b>	0.0%	<b>6.2%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>91.5%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>12.5%</b>		<b>2.8%</b>	<b>3.6%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>5.3%</b>	<b>0.0%</b>	<b>2.5%</b>	<b>3.6%</b>	<b>0.3%</b>	<b>0.0%</b>	<b>43.5%</b>	<b>7.8%</b>	<b>0.0%</b>	<b>17.4%</b>	<b>100.0%</b>	

**Exhibit 32d Queens Aggregate - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>1.3%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>2.6%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging		<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	<b>0.3%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.5%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.4%</b>	<b>0.6%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	<b>0.2%</b>	<b>0.4%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.8%</b>	
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.1%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.6%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	<b>0.2%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	
Other Plastics	Other Rigid Plastic	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	<b>0.7%</b>	<b>0.7%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.2%</b>	0.0%	0.0%	0.0%	<b>2.2%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.1%</b>	0.0%	0.0%	0.0%	<b>2.1%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.7%</b>	0.0%	0.0%	0.0%	<b>0.7%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	0.0%	0.0%	<b>1.0%</b>	
<b>Total</b>		<b>1.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>5.0%</b>	<b>1.1%</b>	<b>0.0%</b>	<b>2.2%</b>	<b>12.9%</b>	

**Exhibit 32d Queens Aggregate - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>11,189</b>	<b>1,060</b>	<b>4,768</b>	<b>3,891</b>	<b>25</b>	<b>39</b>	<b>600</b>	0	<b>6</b>	0	<b>178</b>	<b>84</b>	0	0	0	0	<b>311</b>	<b>22,152</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>1,009</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1,009</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>65</b>		<b>12</b>	<b>132</b>	0	<b>193</b>	<b>2,225</b>	0	0	0	<b>40</b>	0	0	0	0	0	<b>1,654</b>	<b>4,320</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0	0	0	0	0	0	0	0	<b>1,521</b>	0	0	0	0	0	0	0	0	<b>1,521</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>273</b>	<b>9</b>	<b>140</b>	<b>29</b>	<b>48</b>	<b>787</b>	<b>7</b>	0	0	0	<b>122</b>	<b>6</b>	0	0	0	<b>16</b>	<b>3,519</b>	<b>4,956</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>258</b>	0	0	0	0	0	<b>515</b>	0	<b>1,316</b>	<b>3,387</b>	<b>3</b>	0	0	0	0	0	<b>1,249</b>	<b>6,728</b>
Appliances: Plastic	Other Rigid Plastic	0	0	<b>21</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>404</b>	<b>425</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0	0	0	0	0	0	<b>3</b>	0	0	0	0	0	0	0	0	0	<b>441</b>	<b>444</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0	0	<b>172</b>	0	<b>1</b>	<b>471</b>	0	0	<b>6</b>	0	<b>1</b>	0	<b>117</b>	0	0	0	<b>4,456</b>	<b>5,223</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0	0	<b>873</b>	0	0	<b>25</b>	0	0	0	0	0	0	0	0	0	0	<b>589</b>	<b>1,487</b>
Other PVC	Other Rigid Plastic	0	0	0	0	<b>23</b>	0	0	0	0	0	0	0	0	0	0	0	0	<b>23</b>
Other Plastics	Other Rigid Plastic	<b>8</b>	<b>3</b>	<b>50</b>	0	0	<b>5</b>	<b>113</b>	<b>6</b>	<b>8</b>	0	<b>11</b>	0	<b>1</b>	0	0	0	<b>6,215</b>	<b>6,419</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0	0	0	0	0	0	0	0	0	<b>4,411</b>	0	0	0	0	0	0	0	<b>4,411</b>
Film Plastic: Retail Bags and Sleeves	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>18,793</b>	0	0	0	<b>18,793</b>
Film Plastic: Garbage Bags	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>17,771</b>	0	0	0	<b>17,771</b>
Film Plastic: Food/Drink Pouches	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>263</b>	0	0	<b>263</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>6,134</b>	0	0	0	<b>6,134</b>
Film Plastic: Other Non-PE/Contaminated	Film	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>8,805</b>	0	0	<b>8,805</b>
<b>Total</b>		<b>13,861</b>	<b>4,812</b>	<b>5,256</b>	<b>78</b>	<b>286</b>	<b>4,739</b>	<b>13</b>	<b>2,856</b>	<b>7,798</b>	<b>355</b>	<b>90</b>	<b>118</b>	<b>42,697</b>	<b>9,068</b>	<b>16</b>	<b>18,839</b>	<b>110,883</b>	

**Exhibit 32d Queens Aggregate - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	<b>80.7%</b>	<b>7.6%</b>	<b>99.1%</b>	<b>74.0%</b>	<b>32.5%</b>	<b>13.7%</b>	<b>12.7%</b>	0.0%	0.0%	<b>50.3%</b>	<b>93.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.7%</b>	<b>20.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>7.3%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>0.5%</b>	<b>0.2%</b>	<b>2.5%</b>	0.0%	<b>67.2%</b>	<b>46.9%</b>	0.0%	0.0%	0.0%	<b>11.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>8.8%</b>	<b>3.9%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>2.0%</b>	<b>0.2%</b>	<b>2.7%</b>	<b>37.5%</b>	<b>16.8%</b>	<b>16.6%</b>	<b>54.5%</b>	0.0%	0.0%	<b>34.5%</b>	<b>6.5%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	<b>18.7%</b>	<b>4.5%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>1.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>10.9%</b>	0.0%	<b>46.1%</b>	<b>43.4%</b>	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>6.6%</b>	<b>6.1%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.1%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.3%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>3.3%</b>	0.0%	<b>0.4%</b>	<b>9.9%</b>	0.0%	<b>0.2%</b>	0.0%	<b>0.2%</b>	0.0%	<b>99.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>23.7%</b>	<b>4.7%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>16.6%</b>	0.0%	0.0%	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.1%</b>	<b>1.3%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>30.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.1%</b>	<b>0.1%</b>	<b>0.9%</b>	0.0%	<b>1.8%</b>	<b>2.4%</b>	<b>45.5%</b>	<b>0.3%</b>	0.0%	<b>3.1%</b>	0.0%	<b>1.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>33.0%</b>	<b>5.8%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>56.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>4.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>44.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>16.9%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>41.6%</b>	0.0%	0.0%	0.0%	0.0%	<b>16.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.9%</b>	0.0%	0.0%	0.0%	<b>0.2%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.4%</b>	0.0%	0.0%	0.0%	0.0%	<b>5.5%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.1%</b>	0.0%	0.0%	0.0%	<b>7.9%</b>
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

**Exhibit 32d Queens Aggregate - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Expanded		Expanded									Resin
Plastic Bottles	Rigid Containers/Packaging	<b>50.5%</b>	<b>4.8%</b>	<b>21.5%</b>	<b>17.6%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>2.7%</b>	0.0%	0.0%	<b>0.8%</b>	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>1.5%</b>	<b>0.3%</b>	<b>3.1%</b>	0.0%	<b>4.5%</b>	<b>51.5%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>38.3%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>5.5%</b>	<b>0.2%</b>	<b>2.8%</b>	<b>0.6%</b>	<b>1.0%</b>	<b>15.9%</b>	<b>0.1%</b>	0.0%	0.0%	<b>2.5%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>71.0%</b>	<b>100.0%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>3.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.6%</b>	0.0%	<b>19.6%</b>	<b>50.3%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>18.6%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	<b>5.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>95.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>99.4%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>3.3%</b>	0.0%	<b>0.0%</b>	<b>9.0%</b>	0.0%	<b>0.1%</b>	0.0%	<b>0.0%</b>	0.0%	<b>2.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>85.3%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>58.7%</b>	0.0%	0.0%	<b>1.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>39.6%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	<b>0.1%</b>	<b>0.0%</b>	<b>0.8%</b>	0.0%	<b>0.1%</b>	<b>1.8%</b>	<b>0.1%</b>	<b>0.1%</b>	0.0%	<b>0.2%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>96.8%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>12.5%</b>		<b>4.3%</b>	<b>4.7%</b>	<b>0.1%</b>	<b>0.3%</b>	<b>4.3%</b>	<b>0.0%</b>	<b>2.6%</b>	<b>7.0%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>38.5%</b>	<b>8.2%</b>	<b>0.0%</b>	<b>17.0%</b>	<b>100.0%</b>

**Exhibit 32e Staten Island Aggregate - Plastic Resin Composition**

Absolute Composition, Percentage of Waste Stream. Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	<b>1.4%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.6%</b>
#1 PET Thermoforms	Rigid Containers/Packaging		<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging		<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>0.5%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.3%</b>	<b>0.5%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>	<b>0.5%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	<b>0.4%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.3%</b>	<b>1.4%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.1%</b>	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.1%</b>
Other Plastics	Other Rigid Plastic	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>	<b>0.0%</b>	0.0%	<b>0.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	<b>0.5%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.4%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.6%</b>	0.0%	0.0%	0.0%	<b>1.6%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.6%</b>	0.0%	0.0%	0.0%	<b>1.6%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	0.0%	0.0%	<b>0.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.6%</b>	0.0%	0.0%	0.0%	<b>0.6%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.9%</b>	0.0%	0.0%	0.0%	<b>0.9%</b>
<b>Total</b>			<b>1.8%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.5%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>0.6%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>3.8%</b>	<b>0.9%</b>	<b>0.0%</b>	<b>2.9%</b>	<b>12.1%</b>

**Exhibit 32e Staten Island Aggregate - Plastic Resin Composition - continued**

Absolute Composition, Tons. Results presented to the nearest ton. **Bold** text indicates a value greater than 0 tons.

Resin Subsort	Type	#1 PET	#1 PET	#2 HDPE	#2 HDPE	#3 PVC	#4	#5 PP	#6 PS Rigid	#6 PS	#7 Other	Dual	Other	Polyethylene	Non-PE Film	BioPlastic	Unlabeled	Total	
		Clear/ Green	Other Color	Natural	Pigmented		LDPE/LLDPE	#5 PP Rigid		Expanded									Expanded
Plastic Bottles	Rigid Containers/Packaging	<b>3,226</b>	<b>282</b>	<b>974</b>	<b>1,119</b>	<b>21</b>	<b>3</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>92</b>	<b>5,918</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>377</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>377</b>	
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>74</b>		<b>10</b>	<b>36</b>	<b>3</b>	<b>43</b>	<b>533</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>519</b>	<b>1,236</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>335</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>335</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>59</b>	<b>4</b>	<b>35</b>	<b>22</b>	<b>3</b>	<b>233</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>629</b>	<b>1,045</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>108</b>	<b>0</b>	<b>506</b>	<b>341</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>254</b>	<b>1,264</b>	
Appliances: Plastic	Other Rigid Plastic	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>980</b>	<b>980</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>24</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	<b>0</b>	<b>0</b>	<b>62</b>	<b>15</b>	<b>12</b>	<b>140</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,001</b>	<b>3,237</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	<b>0</b>	<b>7</b>	<b>157</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67</b>	<b>237</b>	
Other PVC	Other Rigid Plastic	<b>0</b>	<b>0</b>	<b>140</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>140</b>	
Other Plastics	Other Rigid Plastic	<b>0</b>	<b>1</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,221</b>	<b>1,259</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>945</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>945</b>	
Film Plastic: Retail Bags and Sleeves	Film	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,776</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,776</b>	
Film Plastic: Garbage Bags	Film	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,636</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,636</b>	
Film Plastic: Food/Drink Pouches	Film	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>49</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,299</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,299</b>	
Film Plastic: Other Non-PE/Contaminated	Film	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,979</b>	<b>0</b>	<b>0</b>	<b>1,979</b>	
<b>Total</b>		<b>4,067</b>		<b>995</b>	<b>1,426</b>	<b>200</b>	<b>68</b>	<b>1,130</b>	<b>17</b>	<b>850</b>	<b>1,286</b>	<b>114</b>	<b>56</b>	<b>0</b>	<b>8,711</b>	<b>2,028</b>	<b>4</b>	<b>6,782</b>	<b>27,734</b>

**Exhibit 32e Staten Island Aggregate - Plastic Resin Type Breakdown by Plastic Subcategory - continued**

Relative % (% of subcategory for that resin). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total	
Plastic Bottles	Rigid Containers/Packaging	<b>79.3%</b>	<b>6.9%</b>	<b>97.9%</b>	<b>78.5%</b>	<b>10.4%</b>	<b>4.9%</b>	<b>8.3%</b>	0.0%	<b>0.0%</b>	0.0%	<b>43.6%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>27.0%</b>	<b>1.4%</b>	<b>21.3%</b>	
#1 PET Thermoforms	Rigid Containers/Packaging	<b>9.3%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>1.8%</b>	<b>1.0%</b>	<b>2.5%</b>	<b>1.5%</b>	<b>63.6%</b>	<b>47.2%</b>	0.0%	0.0%	0.0%	0.0%	<b>15.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>7.7%</b>	<b>4.5%</b>	
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>39.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.2%</b>	
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>1.5%</b>	<b>0.4%</b>	<b>2.4%</b>	<b>10.9%</b>	<b>5.0%</b>	<b>20.6%</b>	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>36.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>63.5%</b>	<b>9.3%</b>	<b>3.8%</b>	
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>1.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.6%</b>	<b>0.0%</b>	<b>59.5%</b>	<b>26.5%</b>	<b>5.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>9.6%</b>	<b>3.7%</b>	<b>4.6%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.4%</b>	<b>3.5%</b>	
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.3%</b>	<b>0.1%</b>	
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>4.3%</b>	<b>7.5%</b>	<b>17.4%</b>	<b>12.4%</b>	0.0%	0.0%	<b>0.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>44.2%</b>	<b>11.7%</b>	
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	<b>0.7%</b>	<b>11.0%</b>	0.0%	<b>8.9%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>1.0%</b>	<b>0.9%</b>	
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>69.7%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.5%</b>	
Other Plastics	Other Rigid Plastic	0.0%	<b>0.1%</b>	<b>1.3%</b>	0.0%	<b>0.3%</b>	<b>1.6%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>18.0%</b>	<b>4.5%</b>	
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>73.5%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>3.4%</b>	
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>43.3%</b>	0.0%	0.0%	0.0%	<b>13.6%</b>	
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>41.7%</b>	0.0%	0.0%	0.0%	<b>13.1%</b>	
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>2.4%</b>	0.0%	0.0%	<b>0.2%</b>	
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>14.9%</b>	0.0%	0.0%	0.0%	<b>4.7%</b>	
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.6%</b>	0.0%	0.0%	<b>7.1%</b>	
<b>Total</b>		<b>100.0%</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	0.0%	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	

**Exhibit 32e Staten Island Aggregate - Plastic Subcategory Breakdown by Resin Type - continued**

Relative % (% of resin for that category). Results presented to one decimal point. **Bold** text indicates a value greater than 0%.

Resin Subsort	Type	#1 PET Clear/ Green	#1 PET Other Color	#2 HDPE Natural	#2 HDPE Pigmented	#3 PVC	#4 LDPE/LLDPE	#5 PP Rigid	#5 PP Expanded	#6 PS Rigid	#6 PS Expanded	#7 Other	Dual Numbered	Other Labeled Resin	Polyethylene Film (HD/LD/LLD)	Non-PE Film	BioPlastic	Unlabeled Resin	Total
Plastic Bottles	Rigid Containers/Packaging	<b>54.5%</b>	<b>4.8%</b>	<b>16.5%</b>	<b>18.9%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>1.6%</b>	0.0%	<b>0.0%</b>	0.0%	<b>0.8%</b>	<b>1.0%</b>	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>1.5%</b>	<b>100.0%</b>
#1 PET Thermoforms	Rigid Containers/Packaging	<b>100.0%</b>		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Tubs/Lids Excluding #6 Polystyrene	Rigid Containers/Packaging	<b>6.0%</b>	<b>0.8%</b>	<b>2.9%</b>	<b>0.2%</b>	<b>3.5%</b>	<b>43.1%</b>	0.0%	0.0%	0.0%	0.0%	<b>1.4%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>42.0%</b>	<b>100.0%</b>
#6 Rigid Polystyrene Containers/Packaging	Rigid Containers/Packaging	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Rigid Containers/Packaging	Rigid Containers/Packaging	<b>5.7%</b>	<b>0.3%</b>	<b>3.3%</b>	<b>2.1%</b>	<b>0.3%</b>	<b>22.3%</b>	<b>1.6%</b>	0.0%	0.0%	0.0%	<b>3.9%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.2%</b>	<b>60.2%</b>	<b>100.0%</b>
Single Use Plastic Plates/Cups/Cutlery	Other Rigid Plastic	<b>3.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>8.6%</b>	0.0%	<b>40.0%</b>	<b>27.0%</b>	<b>0.5%</b>	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>20.1%</b>	<b>100.0%</b>
Appliances: Plastic	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Crates/Soda Bottle Carriers	Other Rigid Plastic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>15.8%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>84.2%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Toys/Housewares	Other Rigid Plastic	0.0%	0.0%	<b>1.9%</b>	<b>0.5%</b>	<b>0.4%</b>	<b>4.3%</b>	0.0%	<b>0.2%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>92.7%</b>	<b>100.0%</b>
Bulk/Rigid Plastic: Other Durable	Other Rigid Plastic	0.0%	0.0%	<b>2.9%</b>	<b>66.3%</b>	0.0%	<b>2.6%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>28.3%</b>	<b>100.0%</b>
Other PVC	Other Rigid Plastic	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Other Plastics	Other Rigid Plastic	0.0%	<b>0.1%</b>	<b>1.4%</b>	0.0%	<b>0.0%</b>	<b>1.4%</b>	0.0%	0.0%	<b>0.1%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>97.0%</b>	<b>100.0%</b>
#6 EPS Containers/Packaging	Expanded Polystyrene	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Retail Bags and Sleeves	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Garbage Bags	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Food/Drink Pouches	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other #2/#4 Polyethylene	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	0.0%	<b>100.0%</b>
Film Plastic: Other Non-PE/Contaminated	Film	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	<b>100.0%</b>	0.0%	0.0%	<b>100.0%</b>
<b>Total</b>		<b>14.7%</b>		<b>3.6%</b>	<b>5.1%</b>	<b>0.7%</b>	<b>0.2%</b>	<b>4.1%</b>	<b>0.1%</b>	<b>3.1%</b>	<b>4.6%</b>	<b>0.4%</b>	<b>0.2%</b>	0.0%	<b>31.4%</b>	<b>7.3%</b>	<b>0.0%</b>	<b>24.5%</b>	<b>100.0%</b>



**Exhibit 33 Incidence of Refuse in MGP Stream**

Material	Bronx		Brooklyn		Manhattan		Queens		Staten Island	
	Tons	Percent	Tons	Percent	Tons	Percent	Tons	Percent	Tons	Percent
Paper	1,921	6.8%	4,593	7.6%	1,872	4.3%	4,728	7.6%	1,503	8.2%
Targeted Recyclable Paper	840	3.0%	2,496	4.2%	792	1.8%	2,612	4.2%	1,076	5.9%
<b>Paper Beverage Cartons/Aseptic Boxes</b>	<b>749</b>	<b>2.6%</b>	<b>1,538</b>	<b>2.6%</b>	<b>881</b>	<b>2.0%</b>	<b>1,439</b>	<b>2.3%</b>	<b>245</b>	<b>1.3%</b>
Other Paper	332	1.2%	559	0.9%	199	0.5%	677	1.1%	182	1.0%
Plastic	10,875	38.3%	18,973	31.6%	10,793	25.0%	22,320	35.8%	6,362	34.6%
<b>Targeted Recyclable Plastic Bottles</b>	<b>6,191</b>	<b>21.8%</b>	<b>10,690</b>	<b>17.8%</b>	<b>5,440</b>	<b>12.6%</b>	<b>13,162</b>	<b>21.1%</b>	<b>3,688</b>	<b>20.1%</b>
<b>Other Rigid Plastics</b>	<b>3,401</b>	<b>12.0%</b>	<b>5,228</b>	<b>8.7%</b>	<b>3,146</b>	<b>7.3%</b>	<b>6,158</b>	<b>9.9%</b>	<b>1,965</b>	<b>10.7%</b>
Film Plastic	1,253	4.4%	2,962	4.9%	2,185	5.1%	2,894	4.6%	677	3.7%
Foam Plastics	30	0.1%	93	0.2%	22	0.1%	105	0.2%	33	0.2%
Glass	9,523	33.6%	24,059	40.1%	22,939	53.2%	18,714	30.0%	6,298	34.3%
<b>Targeted Recyclable Glass</b>	<b>9,179</b>	<b>32.4%</b>	<b>23,300</b>	<b>38.8%</b>	<b>22,518</b>	<b>52.2%</b>	<b>18,064</b>	<b>29.0%</b>	<b>5,908</b>	<b>32.1%</b>
Other Glass	344	1.2%	759	1.3%	421	1.0%	650	1.0%	390	2.1%
Metal	4,163	14.7%	8,793	14.6%	5,626	13.0%	11,447	18.4%	2,856	15.5%
<b>Aluminum Cans</b>	<b>243</b>	<b>0.9%</b>	<b>673</b>	<b>1.1%</b>	<b>428</b>	<b>1.0%</b>	<b>818</b>	<b>1.3%</b>	<b>330</b>	<b>1.8%</b>
<b>Steel Cans</b>	<b>2,192</b>	<b>7.7%</b>	<b>3,630</b>	<b>6.0%</b>	<b>1,849</b>	<b>4.3%</b>	<b>4,320</b>	<b>6.9%</b>	<b>1,151</b>	<b>6.3%</b>
<b>Other Nonferrous Metal</b>	<b>341</b>	<b>1.2%</b>	<b>1,429</b>	<b>2.4%</b>	<b>312</b>	<b>0.7%</b>	<b>995</b>	<b>1.6%</b>	<b>240</b>	<b>1.3%</b>
<b>Other Ferrous Metal</b>	<b>1,387</b>	<b>4.9%</b>	<b>3,061</b>	<b>5.1%</b>	<b>3,037</b>	<b>7.0%</b>	<b>5,315</b>	<b>8.5%</b>	<b>1,136</b>	<b>6.2%</b>
Organics	1,055	3.7%	2,223	3.7%	1,276	3.0%	2,934	4.7%	873	4.7%
Food Waste	761	2.7%	1,511	2.5%	727	1.7%	1,933	3.1%	506	2.8%
Other Organics	294	1.0%	712	1.2%	548	1.3%	1,001	1.6%	367	2.0%
E-Waste	285	1.0%	469	0.8%	247	0.6%	470	0.8%	106	0.6%
Construction & Demolition Debris	34	0.1%	20	0.0%	4	0.0%	595	1.0%	22	0.1%
Special Waste	108	0.4%	532	0.9%	88	0.2%	473	0.8%	126	0.7%
Misc. Inorganics	397	1.4%	408	0.7%	273	0.6%	651	1.0%	233	1.3%
<b>Total</b>	<b>28,361</b>	<b>100.0%</b>	<b>60,068</b>	<b>100.0%</b>	<b>43,118</b>	<b>100.0%</b>	<b>62,331</b>	<b>100.0%</b>	<b>18,379</b>	<b>100.0%</b>
<b>Summary</b>										
<b>Targeted MGP</b>	<b>23,682</b>	<b>83.5%</b>	<b>49,549</b>	<b>82.5%</b>	<b>37,611</b>	<b>87.2%</b>	<b>50,270</b>	<b>80.6%</b>	<b>14,661</b>	<b>79.8%</b>
Contaminants	4,679	16.5%	10,519	17.5%	5,506	12.8%	12,062	19.4%	3,717	20.2%
Targeted Paper	840	3.0%	2,496	4.2%	792	1.8%	2,612	4.2%	1,076	5.9%
Refuse	3,839	13.5%	8,024	13.4%	4,714	10.9%	9,449	15.2%	2,642	14.4%

*Bold text indicates targeted MGP materials*

**Exhibit 34 Incidence of Refuse in Paper Stream**

Material	Bronx		Brooklyn		Manhattan		Queens		Staten Island	
	Tons	Percent	Tons	Percent	Tons	Percent	Tons	Percent	Tons	Percent
Paper	26,873	93.5%	80,432	95.0%	65,311	95.6%	73,550	92.9%	23,483	95.9%
<b>Targeted Recyclable Paper</b>	<b>26,161</b>	<b>91.1%</b>	<b>79,052</b>	<b>93.3%</b>	<b>64,476</b>	<b>94.4%</b>	<b>71,737</b>	<b>90.6%</b>	<b>23,052</b>	<b>94.1%</b>
Paper Beverage Cartons/Aseptic Boxes	82	0.3%	216	0.3%	124	0.2%	486	0.6%	64	0.3%
Other Paper	630	2.2%	1,164	1.4%	711	1.0%	1,327	1.7%	366	1.5%
Plastic	811	2.8%	2,009	2.4%	1,714	2.5%	2,250	2.8%	439	1.8%
Targeted Recyclable Plastic Bottles	62	0.2%	204	0.2%	104	0.2%	317	0.4%	60	0.2%
Other Rigid Plastics	168	0.6%	340	0.4%	393	0.6%	482	0.6%	114	0.5%
Film Plastic	535	1.9%	1,335	1.6%	1,143	1.7%	1,295	1.6%	225	0.9%
Foam Plastics	46	0.2%	130	0.2%	74	0.1%	157	0.2%	40	0.2%
Glass	190	0.7%	267	0.3%	202	0.3%	422	0.5%	52	0.2%
Targeted Recyclable Glass	150	0.5%	166	0.2%	149	0.2%	258	0.3%	43	0.2%
Other Glass	40	0.1%	101	0.1%	53	0.1%	164	0.2%	9	0.0%
Metal	115	0.4%	302	0.4%	103	0.2%	315	0.4%	53	0.2%
Aluminum Cans	10	0.0%	27	0.0%	8	0.0%	90	0.1%	3	0.0%
Steel Cans	29	0.1%	77	0.1%	39	0.1%	108	0.1%	7	0.0%
Other Nonferrous Metal	15	0.1%	32	0.0%	10	0.0%	39	0.0%	31	0.1%
Other Ferrous Metal	61	0.2%	165	0.2%	47	0.1%	77	0.1%	12	0.0%
Organics	458	1.6%	1,292	1.5%	814	1.2%	2,207	2.8%	362	1.5%
Food Waste	144	0.5%	723	0.9%	363	0.5%	660	0.8%	260	1.1%
Other Organics	315	1.1%	569	0.7%	451	0.7%	1,547	2.0%	102	0.4%
E-Waste	12	0.0%	121	0.1%	18	0.0%	11	0.0%	1	0.0%
Construction & Demolition Debris	231	0.8%	221	0.3%	35	0.1%	195	0.2%	18	0.1%
Special Waste	31	0.1%	40	0.0%	30	0.0%	63	0.1%	27	0.1%
Misc. Inorganics	7	0.0%	19	0.0%	60	0.1%	168	0.2%	53	0.2%
<b>Total</b>	<b>28,728</b>	<b>100.0%</b>	<b>84,705</b>	<b>100.0%</b>	<b>68,288</b>	<b>100.0%</b>	<b>79,181</b>	<b>100.0%</b>	<b>24,489</b>	<b>100.0%</b>
<b>Summary</b>										
<b>Targeted Paper</b>	<b>26,161</b>	<b>91.1%</b>	<b>79,052</b>	<b>93.3%</b>	<b>64,476</b>	<b>94.4%</b>	<b>71,737</b>	<b>90.6%</b>	<b>23,052</b>	<b>94.1%</b>
Contaminants	2,567	8.9%	5,652	6.7%	3,812	5.6%	7,444	9.4%	1,436	5.9%
Targeted MGP	577	2.0%	1,228	1.5%	874	1.3%	1,858	2.3%	335	1.4%
Refuse	1,990	6.9%	4,424	5.2%	2,939	4.3%	5,587	7.1%	1,101	4.5%

*Bold text indicates targeted Paper materials*

Exhibit 35 Incidence of Recyclables in Refuse Stream

Material	Bronx		Brooklyn		Manhattan		Queens		Staten Island	
	Tons	Percent	Tons	Percent	Tons	Percent	Tons	Percent	Tons	Percent
Paper	82,806	19.3%	164,823	20.2%	132,419	30.4%	131,600	18.3%	38,526	20.6%
Newspaper	<b>6,217</b>	<b>1.4%</b>	<b>11,509</b>	<b>1.4%</b>	<b>9,843</b>	<b>2.3%</b>	<b>8,747</b>	<b>1.2%</b>	<b>3,192</b>	<b>1.7%</b>
Plain OCC/Kraft Paper	<b>6,188</b>	<b>1.4%</b>	<b>11,086</b>	<b>1.4%</b>	<b>11,070</b>	<b>2.5%</b>	<b>7,366</b>	<b>1.0%</b>	<b>2,912</b>	<b>1.6%</b>
High Grade Paper	<b>3,213</b>	<b>0.7%</b>	<b>8,256</b>	<b>1.0%</b>	<b>6,245</b>	<b>1.4%</b>	<b>4,645</b>	<b>0.6%</b>	<b>1,433</b>	<b>0.8%</b>
Mixed Low Grade Paper	<b>30,423</b>	<b>7.1%</b>	<b>55,592</b>	<b>6.8%</b>	<b>51,004</b>	<b>11.7%</b>	<b>42,311</b>	<b>5.9%</b>	<b>11,218</b>	<b>6.0%</b>
Paper Beverage Cartons/Aseptic Boxes	<b>1,806</b>	<b>0.4%</b>	<b>2,212</b>	<b>0.3%</b>	<b>1,291</b>	<b>0.3%</b>	<b>1,445</b>	<b>0.2%</b>	<b>283</b>	<b>0.2%</b>
Other Paper	34,958	8.1%	76,168	9.3%	52,966	12.1%	67,086	9.3%	19,488	10.4%
Plastic	64,673	15.1%	112,365	13.8%	70,749	16.2%	86,313	12.0%	20,933	11.2%
#1 PET Bottles	<b>5,249</b>	<b>1.2%</b>	<b>6,907</b>	<b>0.8%</b>	<b>4,443</b>	<b>1.0%</b>	<b>5,636</b>	<b>0.8%</b>	<b>1,408</b>	<b>0.8%</b>
#2 HDPE Bottles	<b>2,504</b>	<b>0.6%</b>	<b>3,680</b>	<b>0.5%</b>	<b>2,374</b>	<b>0.5%</b>	<b>2,446</b>	<b>0.3%</b>	<b>603</b>	<b>0.3%</b>
Other Plastic Bottles	<b>375</b>	<b>0.1%</b>	<b>626</b>	<b>0.1%</b>	<b>419</b>	<b>0.1%</b>	<b>592</b>	<b>0.1%</b>	<b>158</b>	<b>0.1%</b>
Rigid Plastic Containers/Packaging	<b>5,462</b>	<b>1.3%</b>	<b>10,537</b>	<b>1.3%</b>	<b>12,146</b>	<b>2.8%</b>	<b>8,878</b>	<b>1.2%</b>	<b>2,209</b>	<b>1.2%</b>
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	<b>1,554</b>	<b>0.4%</b>	<b>5,774</b>	<b>0.7%</b>	<b>2,509</b>	<b>0.6%</b>	<b>3,099</b>	<b>0.4%</b>	<b>817</b>	<b>0.4%</b>
Appliances: Plastic	<b>1,973</b>	<b>0.5%</b>	<b>2,628</b>	<b>0.3%</b>	<b>785</b>	<b>0.2%</b>	<b>169</b>	<b>0.0%</b>	<b>954</b>	<b>0.5%</b>
Bulk/Rigid Plastic	<b>5,137</b>	<b>1.2%</b>	<b>4,778</b>	<b>0.6%</b>	<b>2,530</b>	<b>0.6%</b>	<b>4,900</b>	<b>0.7%</b>	<b>2,664</b>	<b>1.4%</b>
Other Plastics	<b>3,187</b>	<b>0.7%</b>	<b>7,458</b>	<b>0.9%</b>	<b>3,230</b>	<b>0.7%</b>	<b>5,481</b>	<b>0.8%</b>	<b>1,070</b>	<b>0.6%</b>
Film Plastic	34,957	8.1%	62,129	7.6%	39,401	9.0%	47,576	6.6%	9,837	5.3%
Foam Plastic	4,274	1.0%	7,848	1.0%	2,912	0.7%	7,536	1.0%	1,213	0.6%
Glass	10,641	2.5%	15,917	1.9%	10,253	2.4%	12,208	1.7%	2,810	1.5%
Clear Container Glass	<b>5,288</b>	<b>1.2%</b>	<b>7,364</b>	<b>0.9%</b>	<b>3,873</b>	<b>0.9%</b>	<b>5,942</b>	<b>0.8%</b>	<b>1,378</b>	<b>0.7%</b>
Green Container Glass	<b>465</b>	<b>0.1%</b>	<b>1,693</b>	<b>0.2%</b>	<b>1,691</b>	<b>0.4%</b>	<b>1,062</b>	<b>0.1%</b>	<b>192</b>	<b>0.1%</b>
Brown Container Glass	<b>1,541</b>	<b>0.4%</b>	<b>1,511</b>	<b>0.2%</b>	<b>1,014</b>	<b>0.2%</b>	<b>700</b>	<b>0.1%</b>	<b>176</b>	<b>0.1%</b>
Other Color Container Glass	<b>110</b>	<b>0.0%</b>	<b>73</b>	<b>0.0%</b>	<b>97</b>	<b>0.0%</b>	<b>35</b>	<b>0.0%</b>	<b>12</b>	<b>0.0%</b>
Mixed Cullet	<b>2,238</b>	<b>0.5%</b>	<b>3,404</b>	<b>0.4%</b>	<b>2,375</b>	<b>0.5%</b>	<b>1,430</b>	<b>0.2%</b>	<b>274</b>	<b>0.1%</b>
Other Glass	1,000	0.2%	1,872	0.2%	1,204	0.3%	3,038	0.4%	778	0.4%
Metal	14,775	3.4%	22,233	2.7%	13,411	3.1%	20,257	2.8%	4,838	2.6%
Aluminum Cans	<b>1,481</b>	<b>0.3%</b>	<b>1,787</b>	<b>0.2%</b>	<b>1,217</b>	<b>0.3%</b>	<b>1,240</b>	<b>0.2%</b>	<b>391</b>	<b>0.2%</b>
Aluminum Foil/Containers	<b>2,017</b>	<b>0.5%</b>	<b>4,483</b>	<b>0.5%</b>	<b>2,109</b>	<b>0.5%</b>	<b>3,519</b>	<b>0.5%</b>	<b>722</b>	<b>0.4%</b>
Other Aluminum	<b>1,012</b>	<b>0.2%</b>	<b>508</b>	<b>0.1%</b>	<b>94</b>	<b>0.0%</b>	<b>456</b>	<b>0.1%</b>	<b>76</b>	<b>0.0%</b>
Other Non-Ferrous	<b>227</b>	<b>0.1%</b>	<b>623</b>	<b>0.1%</b>	<b>874</b>	<b>0.2%</b>	<b>610</b>	<b>0.1%</b>	<b>220</b>	<b>0.1%</b>
Steel/Tin Food Cans	<b>3,738</b>	<b>0.9%</b>	<b>4,319</b>	<b>0.5%</b>	<b>2,227</b>	<b>0.5%</b>	<b>2,738</b>	<b>0.4%</b>	<b>574</b>	<b>0.3%</b>
Empty Aerosol Cans	<b>366</b>	<b>0.1%</b>	<b>781</b>	<b>0.1%</b>	<b>491</b>	<b>0.1%</b>	<b>762</b>	<b>0.1%</b>	<b>214</b>	<b>0.1%</b>
Other Ferrous	<b>1,624</b>	<b>0.4%</b>	<b>4,368</b>	<b>0.5%</b>	<b>3,914</b>	<b>0.9%</b>	<b>7,287</b>	<b>1.0%</b>	<b>1,193</b>	<b>0.6%</b>
Mixed Metals	<b>806</b>	<b>0.2%</b>	<b>4,909</b>	<b>0.6%</b>	<b>2,485</b>	<b>0.6%</b>	<b>2,845</b>	<b>0.4%</b>	<b>683</b>	<b>0.4%</b>
Appliances: Ferrous	<b>3,505</b>	<b>0.8%</b>	<b>160</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>800</b>	<b>0.1%</b>	<b>699</b>	<b>0.4%</b>
Appliances: Non-Ferrous	<b>0</b>	<b>0.0%</b>	<b>294</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>68</b>	<b>0.0%</b>
Other Wastes	256,286	59.7%	500,958	61.4%	209,267	48.0%	469,094	65.2%	120,045	64.1%
<b>Total</b>	<b>429,181</b>	<b>100.0%</b>	<b>816,295</b>	<b>100.0%</b>	<b>436,099</b>	<b>100.0%</b>	<b>719,473</b>	<b>100.0%</b>	<b>187,153</b>	<b>100.0%</b>
<b>Summary</b>										
Refuse	331,476	77.2%	648,974	79.5%	305,750	70.1%	594,330	82.6%	151,360	80.9%
<b>Targeted MGP</b>	<b>51,664</b>	<b>12.0%</b>	<b>80,879</b>	<b>9.9%</b>	<b>52,187</b>	<b>12.0%</b>	<b>62,073</b>	<b>8.6%</b>	<b>17,037</b>	<b>9.1%</b>
<b>Targeted Paper</b>	<b>46,042</b>	<b>10.7%</b>	<b>86,442</b>	<b>10.6%</b>	<b>78,162</b>	<b>17.9%</b>	<b>63,069</b>	<b>8.8%</b>	<b>18,755</b>	<b>10.0%</b>

*Bold text indicates targeted recyclables (both Paper and MGP) based on Program Prior to April 2013*

*Bold italic text indicates targeted recyclables added in April 2013*

**Exhibit 36a Capture Rate - Targeted Recyclables Based on Program Prior to April 2013  
(Plastic Bottles Only)**

Material	Bronx			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>26,910</b>	<b>48,770</b>	<b>75,680</b>	<b>35.6%</b>
Newspaper	4,660	6,335	10,995	42.4%
Plain OCC/Kraft Paper	11,890	6,294	18,184	65.4%
High Grade Paper	2,058	3,256	5,314	38.7%
Mixed Low Grade Paper	7,553	30,997	38,550	19.6%
Paper Beverage Cartons/Aseptic Boxes	749	1,888	2,637	28.4%
<b>Plastic</b>	<b>6,191</b>	<b>8,191</b>	<b>14,381</b>	<b>43.0%</b>
#1 PET Bottles	3,233	5,295	8,529	37.9%
#2 HDPE Bottles	2,738	2,517	5,255	52.1%
Other Plastic Bottles	219	378	598	36.7%
<b>Glass</b>	<b>9,179</b>	<b>9,791</b>	<b>18,970</b>	<b>48.4%</b>
Clear Container Glass	4,164	5,386	9,549	43.6%
Green Container Glass	1,142	469	1,611	70.9%
Brown Container Glass	953	1,541	2,494	38.2%
Other Color Container Glass	77	110	186	41.0%
Mixed Cullet	2,844	2,286	5,130	55.4%
<b>Metal</b>	<b>4,163</b>	<b>14,890</b>	<b>19,053</b>	<b>21.8%</b>
Aluminum Cans	243	1,492	1,734	14.0%
Aluminum Foil/Containers	257	2,020	2,277	11.3%
Other Aluminum	13	1,013	1,026	1.3%
Other Non-Ferrous	71	238	308	22.9%
Steel/Tin Food Cans	2,192	3,767	5,959	36.8%
Empty Aerosol Cans	275	380	655	41.9%
Other Ferrous	543	1,630	2,173	25.0%
Mixed Metals	116	809	925	12.6%
Appliances: Ferrous	289	3,505	3,793	7.6%
Appliances: Non-Ferrous	165	37	202	81.5%
<b>Non-Targeted Materials</b>		<b>358,186</b>	<b>358,186</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>46,442</b>	<b>81,641</b>	<b>128,084</b>	<b>36.3%</b>
<b>Summary</b>				
<b>Targeted MGP - Aggregate</b>	<b>20,281</b>	<b>34,760</b>	<b>55,041</b>	<b>36.8%</b>
<b>Targeted Paper - Aggregate</b>	<b>26,161</b>	<b>46,882</b>	<b>73,043</b>	<b>35.8%</b>

**Exhibit 36b Capture Rate - Targeted Recyclables Based on Program Prior to April 2013  
(Plastic Bottles Only)**

Material	Brooklyn			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>80,590</b>	<b>91,367</b>	<b>171,957</b>	<b>46.9%</b>
Newspaper	20,237	11,985	32,222	62.8%
Plain OCC/Kraft Paper	25,645	11,309	36,955	69.4%
High Grade Paper	5,387	8,281	13,669	39.4%
Mixed Low Grade Paper	27,782	57,363	85,145	32.6%
Paper Beverage Cartons/Aseptic Boxes	1,538	2,428	3,967	38.8%
<b>Plastic</b>	<b>10,690</b>	<b>11,417</b>	<b>22,107</b>	<b>48.4%</b>
#1 PET Bottles	5,443	7,037	12,480	43.6%
#2 HDPE Bottles	4,716	3,748	8,464	55.7%
Other Plastic Bottles	531	632	1,163	45.7%
<b>Glass</b>	<b>23,300</b>	<b>14,211</b>	<b>37,511</b>	<b>62.1%</b>
Clear Container Glass	10,988	7,441	18,429	59.6%
Green Container Glass	4,346	1,720	6,065	71.7%
Brown Container Glass	2,236	1,511	3,748	59.7%
Other Color Container Glass	194	73	267	72.7%
Mixed Cullet	5,535	3,466	9,002	61.5%
<b>Metal</b>	<b>8,793</b>	<b>22,536</b>	<b>31,328</b>	<b>28.1%</b>
Aluminum Cans	673	1,815	2,487	27.0%
Aluminum Foil/Containers	675	4,501	5,176	13.0%
Other Aluminum	492	513	1,005	48.9%
Other Non-Ferrous	263	633	896	29.3%
Steel/Tin Food Cans	3,630	4,397	8,026	45.2%
Empty Aerosol Cans	441	786	1,228	36.0%
Other Ferrous	1,119	4,458	5,578	20.1%
Mixed Metals	333	4,953	5,286	6.3%
Appliances: Ferrous	1,059	186	1,245	85.1%
Appliances: Non-Ferrous	108	294	401	26.8%
<b>Non-Targeted Materials</b>		<b>698,166</b>	<b>698,166</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>123,373</b>	<b>139,530</b>	<b>262,903</b>	<b>46.9%</b>
<b>Summary</b>				
<b>Targeted MGP - Aggregate</b>	<b>44,321</b>	<b>50,592</b>	<b>94,912</b>	<b>46.7%</b>
<b>Targeted Paper - Aggregate</b>	<b>79,052</b>	<b>88,938</b>	<b>167,991</b>	<b>47.1%</b>

**Exhibit 36c Capture Rate - Targeted Recyclables Based on Program Prior to April 2013  
(Plastic Bottles Only)**

Material	Manhattan			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>65,357</b>	<b>80,369</b>	<b>145,726</b>	<b>44.8%</b>
Newspaper	12,043	9,904	21,948	54.9%
Plain OCC/Kraft Paper	20,313	11,133	31,446	64.6%
High Grade Paper	5,817	6,268	12,085	48.1%
Mixed Low Grade Paper	26,302	51,649	77,951	33.7%
Paper Beverage Cartons/Aseptic Boxes	881	1,415	2,296	38.4%
<b>Plastic</b>	<b>5,440</b>	<b>7,340</b>	<b>12,780</b>	<b>42.6%</b>
#1 PET Bottles	2,997	4,511	7,508	39.9%
#2 HDPE Bottles	2,227	2,407	4,634	48.1%
Other Plastic Bottles	216	422	638	33.9%
<b>Glass</b>	<b>22,518</b>	<b>9,199</b>	<b>31,717</b>	<b>71.0%</b>
Clear Container Glass	4,637	3,941	8,578	54.1%
Green Container Glass	5,205	1,737	6,942	75.0%
Brown Container Glass	1,102	1,024	2,127	51.8%
Other Color Container Glass	57	97	154	37.2%
Mixed Cullet	11,516	2,400	13,916	82.8%
<b>Metal</b>	<b>5,626</b>	<b>13,515</b>	<b>19,141</b>	<b>29.4%</b>
Aluminum Cans	428	1,224	1,652	25.9%
Aluminum Foil/Containers	135	2,113	2,247	6.0%
Other Aluminum	28	94	122	22.6%
Other Non-Ferrous	150	880	1,030	14.5%
Steel/Tin Food Cans	1,849	2,266	4,116	44.9%
Empty Aerosol Cans	259	495	753	34.3%
Other Ferrous	1,296	3,940	5,236	24.8%
Mixed Metals	267	2,502	2,770	9.7%
Appliances: Ferrous	1,045	0	1,045	100.0%
Appliances: Non-Ferrous	170	0	170	100.0%
<b>Non-Targeted Materials</b>		<b>338,141</b>	<b>338,141</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>98,941</b>	<b>110,423</b>	<b>209,364</b>	<b>47.3%</b>
<b>Summary</b>				
<b>Targeted MGP - Aggregate</b>	<b>34,465</b>	<b>31,469</b>	<b>65,934</b>	<b>52.3%</b>
<b>Targeted Paper - Aggregate</b>	<b>64,476</b>	<b>78,954</b>	<b>143,430</b>	<b>45.0%</b>

**Exhibit 36d Capture Rate - Targeted Recyclables Based on Program Prior to April 2013  
(Plastic Bottles Only)**

Material	Queens			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>73,176</b>	<b>67,612</b>	<b>140,788</b>	<b>52.0%</b>
Newspaper	16,041	9,190	25,232	63.6%
Plain OCC/Kraft Paper	31,049	7,932	38,981	79.7%
High Grade Paper	2,865	4,746	7,612	37.6%
Mixed Low Grade Paper	21,781	43,812	65,594	33.2%
Paper Beverage Cartons/Aseptic Boxes	1,439	1,931	3,370	42.7%
<b>Plastic</b>	<b>13,162</b>	<b>8,990</b>	<b>22,152</b>	<b>59.4%</b>
#1 PET Bottles	6,437	5,811	12,248	52.6%
#2 HDPE Bottles	6,102	2,557	8,659	70.5%
Other Plastic Bottles	623	622	1,245	50.0%
<b>Glass</b>	<b>18,064</b>	<b>9,428</b>	<b>27,492</b>	<b>65.7%</b>
Clear Container Glass	8,833	6,083	14,916	59.2%
Green Container Glass	3,346	1,062	4,409	75.9%
Brown Container Glass	1,426	773	2,198	64.9%
Other Color Container Glass	251	35	287	87.8%
Mixed Cullet	4,207	1,475	5,682	74.0%
<b>Metal</b>	<b>11,447</b>	<b>20,572</b>	<b>32,018</b>	<b>35.7%</b>
Aluminum Cans	818	1,330	2,148	38.1%
Aluminum Foil/Containers	577	3,548	4,125	14.0%
Other Aluminum	36	456	492	7.2%
Other Non-Ferrous	382	620	1,002	38.1%
Steel/Tin Food Cans	4,320	2,846	7,165	60.3%
Empty Aerosol Cans	545	774	1,319	41.3%
Other Ferrous	2,834	7,348	10,183	27.8%
Mixed Metals	1,022	2,850	3,872	26.4%
Appliances: Ferrous	867	800	1,666	52.0%
Appliances: Non-Ferrous	46	0	46	100.0%
<b>Non-Targeted Materials</b>		<b>638,534</b>	<b>638,534</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>115,848</b>	<b>106,603</b>	<b>222,451</b>	<b>52.1%</b>
<b>Summary</b>				
Targeted MGP - Aggregate	44,111	40,921	85,033	51.9%
Targeted Paper - Aggregate	71,737	65,682	137,418	52.2%

**Exhibit 36e Capture Rate - Targeted Recyclables Based on Program Prior to April 2013  
(Plastic Bottles Only)**

Material	Staten Island			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>23,297</b>	<b>20,178</b>	<b>43,476</b>	<b>53.6%</b>
Newspaper	7,124	3,514	10,638	67.0%
Plain OCC/Kraft Paper	7,410	3,063	10,473	70.8%
High Grade Paper	838	1,459	2,297	36.5%
Mixed Low Grade Paper	7,680	11,795	19,475	39.4%
Paper Beverage Cartons/Aseptic Boxes	245	347	592	41.4%
<b>Plastic</b>	<b>3,688</b>	<b>2,230</b>	<b>5,918</b>	<b>62.3%</b>
#1 PET Bottles	2,060	1,449	3,508	58.7%
#2 HDPE Bottles	1,472	621	2,093	70.3%
Other Plastic Bottles	156	160	316	49.3%
<b>Glass</b>	<b>5,908</b>	<b>2,076</b>	<b>7,984</b>	<b>74.0%</b>
Clear Container Glass	2,928	1,398	4,325	67.7%
Green Container Glass	1,224	192	1,416	86.4%
Brown Container Glass	611	192	804	76.1%
Other Color Container Glass	62	12	74	83.7%
Mixed Cullet	1,084	281	1,365	79.4%
<b>Metal</b>	<b>2,856</b>	<b>4,892</b>	<b>7,748</b>	<b>36.9%</b>
Aluminum Cans	330	394	723	45.6%
Aluminum Foil/Containers	149	744	893	16.7%
Other Aluminum	25	79	104	23.7%
Other Non-Ferrous	66	225	292	22.7%
Steel/Tin Food Cans	1,151	581	1,732	66.4%
Empty Aerosol Cans	174	222	396	44.0%
Other Ferrous	526	1,195	1,722	30.6%
Mixed Metals	84	684	769	11.0%
Appliances: Ferrous	135	699	834	16.2%
Appliances: Non-Ferrous	216	68	284	76.0%
<b>Non-Targeted Materials</b>		<b>164,895</b>	<b>164,895</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>35,749</b>	<b>29,376</b>	<b>65,125</b>	<b>54.9%</b>
<b>Summary</b>				
Targeted MGP - Aggregate	12,697	9,545	22,242	57.1%
Targeted Paper - Aggregate	23,052	19,831	42,884	53.8%



**Exhibit 37a Capture Rate - Targeted Recyclables Based on Program After April 2013  
(All Rigid Plastics)**

Material	Bronx			Capture Rate
	Tons Recycled	Tons Disposed	Total Tons Collected	
<b>Paper</b>	<b>26,910</b>	<b>48,770</b>	<b>75,680</b>	<b>35.6%</b>
Newspaper	4,660	6,335	10,995	42.4%
Plain OCC/Kraft Paper	11,890	6,294	18,184	65.4%
High Grade Paper	2,058	3,256	5,314	38.7%
Mixed Low Grade Paper	7,553	30,997	38,550	19.6%
Paper Beverage Cartons/Aseptic Boxes	749	1,888	2,637	28.4%
<b>Plastic</b>	<b>9,592</b>	<b>25,672</b>	<b>35,263</b>	<b>27.2%</b>
#1 PET Bottles	3,233	5,295	8,529	37.9%
#2 HDPE Bottles	2,738	2,517	5,255	52.1%
Other Plastic Bottles	219	378	598	36.7%
Rigid Plastic Containers/Packaging	1,122	5,518	6,640	16.9%
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	92	1,570	1,662	5.5%
Appliances: Plastic	125	1,973	2,098	5.9%
Bulk/Rigid Plastic	1,530	5,197	6,727	22.7%
Other Plastics	533	3,223	3,756	14.2%
<b>Glass</b>	<b>9,179</b>	<b>9,791</b>	<b>18,970</b>	<b>48.4%</b>
Clear Container Glass	4,164	5,386	9,549	43.6%
Green Container Glass	1,142	469	1,611	70.9%
Brown Container Glass	953	1,541	2,494	38.2%
Other Color Container Glass	77	110	186	41.0%
Mixed Cullet	2,844	2,286	5,130	55.4%
<b>Metal</b>	<b>4,163</b>	<b>14,890</b>	<b>19,053</b>	<b>21.8%</b>
Aluminum Cans	243	1,492	1,734	14.0%
Aluminum Foil/Containers	257	2,020	2,277	11.3%
Other Aluminum	13	1,013	1,026	1.3%
Other Non-Ferrous	71	238	308	22.9%
Steel/Tin Food Cans	2,192	3,767	5,959	36.8%
Empty Aerosol Cans	275	380	655	41.9%
Other Ferrous	543	1,630	2,173	25.0%
Mixed Metals	116	809	925	12.6%
Appliances: Ferrous	289	3,505	3,793	7.6%
Appliances: Non-Ferrous	165	37	202	81.5%
<b>Non-Targeted Materials</b>		<b>337,304</b>	<b>337,304</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>49,843</b>	<b>99,123</b>	<b>148,966</b>	<b>33.5%</b>
<b>Summary</b>				
Targeted MGP - Aggregate	23,682	52,241	75,923	31.2%
Targeted Paper - Aggregate	26,161	46,882	73,043	35.8%

**Exhibit 37b Capture Rate - Targeted Recyclables Based on Program After April 2013  
(All Rigid Plastics)**

Material	Brooklyn			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>80,590</b>	<b>91,367</b>	<b>171,957</b>	<b>46.9%</b>
Newspaper	20,237	11,985	32,222	62.8%
Plain OCC/Kraft Paper	25,645	11,309	36,955	69.4%
High Grade Paper	5,387	8,281	13,669	39.4%
Mixed Low Grade Paper	27,782	57,363	85,145	32.6%
Paper Beverage Cartons/Aseptic Boxes	1,538	2,428	3,967	38.8%
<b>Plastic</b>	<b>15,918</b>	<b>42,932</b>	<b>58,851</b>	<b>27.0%</b>
#1 PET Bottles	5,443	7,037	12,480	43.6%
#2 HDPE Bottles	4,716	3,748	8,464	55.7%
Other Plastic Bottles	531	632	1,163	45.7%
Rigid Plastic Containers/Packaging	2,200	10,668	12,868	17.1%
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	219	5,809	6,029	3.6%
Appliances: Plastic	205	2,628	2,833	7.2%
Bulk/Rigid Plastic	1,473	4,821	6,293	23.4%
Other Plastics	1,132	7,589	8,722	13.0%
<b>Glass</b>	<b>23,300</b>	<b>14,211</b>	<b>37,511</b>	<b>62.1%</b>
Clear Container Glass	10,988	7,441	18,429	59.6%
Green Container Glass	4,346	1,720	6,065	71.7%
Brown Container Glass	2,236	1,511	3,748	59.7%
Other Color Container Glass	194	73	267	72.7%
Mixed Cullet	5,535	3,466	9,002	61.5%
<b>Metal</b>	<b>8,793</b>	<b>22,536</b>	<b>31,328</b>	<b>28.1%</b>
Aluminum Cans	673	1,815	2,487	27.0%
Aluminum Foil/Containers	675	4,501	5,176	13.0%
Other Aluminum	492	513	1,005	48.9%
Other Non-Ferrous	263	633	896	29.3%
Steel/Tin Food Cans	3,630	4,397	8,026	45.2%
Empty Aerosol Cans	441	786	1,228	36.0%
Other Ferrous	1,119	4,458	5,578	20.1%
Mixed Metals	333	4,953	5,286	6.3%
Appliances: Ferrous	1,059	186	1,245	85.1%
Appliances: Non-Ferrous	108	294	401	26.8%
<b>Non-Targeted Materials</b>		<b>661,422</b>	<b>661,422</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>128,601</b>	<b>171,046</b>	<b>299,647</b>	<b>42.9%</b>
<b>Summary</b>				
Targeted MGP - Aggregate	49,549	82,107	131,656	37.6%
Targeted Paper - Aggregate	79,052	88,938	167,991	47.1%

**Exhibit 37c Capture Rate - Targeted Recyclables Based on Program After April 2013  
(All Rigid Plastics)**

Material	Manhattan			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>65,357</b>	<b>80,369</b>	<b>145,726</b>	<b>44.8%</b>
Newspaper	12,043	9,904	21,948	54.9%
Plain OCC/Kraft Paper	20,313	11,133	31,446	64.6%
High Grade Paper	5,817	6,268	12,085	48.1%
Mixed Low Grade Paper	26,302	51,649	77,951	33.7%
Paper Beverage Cartons/Aseptic Boxes	881	1,415	2,296	38.4%
<b>Plastic</b>	<b>8,586</b>	<b>28,932</b>	<b>37,518</b>	<b>22.9%</b>
#1 PET Bottles	2,997	4,511	7,508	39.9%
#2 HDPE Bottles	2,227	2,407	4,634	48.1%
Other Plastic Bottles	216	422	638	33.9%
Rigid Plastic Containers/Packaging	1,673	12,260	13,934	12.0%
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	113	2,532	2,645	4.3%
Appliances: Plastic	216	785	1,001	21.5%
Bulk/Rigid Plastic	746	2,573	3,319	22.5%
Other Plastics	398	3,442	3,841	10.4%
<b>Glass</b>	<b>22,518</b>	<b>9,199</b>	<b>31,717</b>	<b>71.0%</b>
Clear Container Glass	4,637	3,941	8,578	54.1%
Green Container Glass	5,205	1,737	6,942	75.0%
Brown Container Glass	1,102	1,024	2,127	51.8%
Other Color Container Glass	57	97	154	37.2%
Mixed Cullet	11,516	2,400	13,916	82.8%
<b>Metal</b>	<b>5,626</b>	<b>13,515</b>	<b>19,141</b>	<b>29.4%</b>
Aluminum Cans	428	1,224	1,652	25.9%
Aluminum Foil/Containers	135	2,113	2,247	6.0%
Other Aluminum	28	94	122	22.6%
Other Non-Ferrous	150	880	1,030	14.5%
Steel/Tin Food Cans	1,849	2,266	4,116	44.9%
Empty Aerosol Cans	259	495	753	34.3%
Other Ferrous	1,296	3,940	5,236	24.8%
Mixed Metals	267	2,502	2,770	9.7%
Appliances: Ferrous	1,045	0	1,045	100.0%
Appliances: Non-Ferrous	170	0	170	100.0%
<b>Non-Targeted Materials</b>		<b>313,403</b>	<b>313,403</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>102,087</b>	<b>132,015</b>	<b>234,103</b>	<b>43.6%</b>
<b>Summary</b>				
Targeted MGP - Aggregate	37,611	53,061	90,673	41.5%
Targeted Paper - Aggregate	64,476	78,954	143,430	45.0%

**Exhibit 37d Capture Rate - Targeted Recyclables Based on Program After April 2013  
(All Rigid Plastics)**

Material	Queens			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>73,176</b>	<b>67,612</b>	<b>140,788</b>	<b>52.0%</b>
Newspaper	16,041	9,190	25,232	63.6%
Plain OCC/Kraft Paper	31,049	7,932	38,981	79.7%
High Grade Paper	2,865	4,746	7,612	37.6%
Mixed Low Grade Paper	21,781	43,812	65,594	33.2%
Paper Beverage Cartons/Aseptic Boxes	1,439	1,931	3,370	42.7%
<b>Plastic</b>	<b>19,320</b>	<b>32,000</b>	<b>51,320</b>	<b>37.6%</b>
#1 PET Bottles	6,437	5,811	12,248	52.6%
#2 HDPE Bottles	6,102	2,557	8,659	70.5%
Other Plastic Bottles	623	622	1,245	50.0%
Rigid Plastic Containers/Packaging	2,704	9,101	11,805	22.9%
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	211	3,129	3,341	6.3%
Appliances: Plastic	202	223	425	47.6%
Bulk/Rigid Plastic	2,178	4,975	7,154	30.5%
Other Plastics	862	5,581	6,443	13.4%
<b>Glass</b>	<b>18,064</b>	<b>9,428</b>	<b>27,492</b>	<b>65.7%</b>
Clear Container Glass	8,833	6,083	14,916	59.2%
Green Container Glass	3,346	1,062	4,409	75.9%
Brown Container Glass	1,426	773	2,198	64.9%
Other Color Container Glass	251	35	287	87.8%
Mixed Cullet	4,207	1,475	5,682	74.0%
<b>Metal</b>	<b>11,447</b>	<b>20,572</b>	<b>32,018</b>	<b>35.7%</b>
Aluminum Cans	818	1,330	2,148	38.1%
Aluminum Foil/Containers	577	3,548	4,125	14.0%
Other Aluminum	36	456	492	7.2%
Other Non-Ferrous	382	620	1,002	38.1%
Steel/Tin Food Cans	4,320	2,846	7,165	60.3%
Empty Aerosol Cans	545	774	1,319	41.3%
Other Ferrous	2,834	7,348	10,183	27.8%
Mixed Metals	1,022	2,850	3,872	26.4%
Appliances: Ferrous	867	800	1,666	52.0%
Appliances: Non-Ferrous	46	0	46	100.0%
<b>Non-Targeted Materials</b>		<b>609,366</b>	<b>609,366</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>122,006</b>	<b>129,612</b>	<b>251,619</b>	<b>48.5%</b>
<b>Summary</b>				
Targeted MGP - Aggregate	50,270	63,931	114,200	44.0%
Targeted Paper - Aggregate	71,737	65,682	137,418	52.2%

**Exhibit 37e Capture Rate - Targeted Recyclables Based on Program After April 2013  
(All Rigid Plastics)**

Material	Staten Island			
	Tons Recycled	Tons Disposed	Total Tons Collected	Capture Rate
<b>Paper</b>	<b>23,297</b>	<b>20,178</b>	<b>43,476</b>	<b>53.6%</b>
Newspaper	7,124	3,514	10,638	67.0%
Plain OCC/Kraft Paper	7,410	3,063	10,473	70.8%
High Grade Paper	838	1,459	2,297	36.5%
Mixed Low Grade Paper	7,680	11,795	19,475	39.4%
Paper Beverage Cartons/Aseptic Boxes	245	347	592	41.4%
<b>Plastic</b>	<b>5,652</b>	<b>10,058</b>	<b>15,710</b>	<b>36.0%</b>
#1 PET Bottles	2,060	1,449	3,508	58.7%
#2 HDPE Bottles	1,472	621	2,093	70.3%
Other Plastic Bottles	156	160	316	49.3%
Rigid Plastic Containers/Packaging	728	2,265	2,993	24.3%
Single Use Plastic Plates/Cups/Cutlery (excluding EPS)	95	828	923	10.3%
Appliances: Plastic	26	954	980	2.6%
Bulk/Rigid Plastic	815	2,683	3,497	23.3%
Other Plastics	301	1,098	1,399	21.5%
<b>Glass</b>	<b>5,908</b>	<b>2,076</b>	<b>7,984</b>	<b>74.0%</b>
Clear Container Glass	2,928	1,398	4,325	67.7%
Green Container Glass	1,224	192	1,416	86.4%
Brown Container Glass	611	192	804	76.1%
Other Color Container Glass	62	12	74	83.7%
Mixed Cullet	1,084	281	1,365	79.4%
<b>Metal</b>	<b>2,856</b>	<b>4,892</b>	<b>7,748</b>	<b>36.9%</b>
Aluminum Cans	330	394	723	45.6%
Aluminum Foil/Containers	149	744	893	16.7%
Other Aluminum	25	79	104	23.7%
Other Non-Ferrous	66	225	292	22.7%
Steel/Tin Food Cans	1,151	581	1,732	66.4%
Empty Aerosol Cans	174	222	396	44.0%
Other Ferrous	526	1,195	1,722	30.6%
Mixed Metals	84	684	769	11.0%
Appliances: Ferrous	135	699	834	16.2%
Appliances: Non-Ferrous	216	68	284	76.0%
<b>Non-Targeted Materials</b>		<b>155,103</b>	<b>155,103</b>	<b>0.0%</b>
<b>Capture Rate - All Targeted Recyclables</b>	<b>37,714</b>	<b>37,204</b>	<b>74,918</b>	<b>50.3%</b>
<b>Summary</b>				
Targeted MGP - Aggregate	14,661	17,372	32,034	45.8%
Targeted Paper - Aggregate	23,052	19,831	42,884	53.8%

**Exhibit 38 Bottle, Can and Carton Unit Weights**

Collected During 2013 Waste Composition Study

Material	Container Type	Product Types(s)	Count	Weight LB	Weight Per Unit (Lbs)	Units Per Pound
Plastic	#1 PET Clear/Green Bottles	Water	100	3.4	0.03	29.41
Plastic	#1 PET Clear/Green Bottles	All	150	14.1	0.09	10.64
Plastic	#1 PET Other Color Bottles	Iced Tea/Juice Drinks (24 Once)	50	5.6	0.11	9.01
Plastic	#1 PET Other Color Bottles	All	6	1.9	0.32	3.16
Plastic	#2 HDPE Natural Bottles	Milk/Soy/ Dairy and Water (1 - Gallon)	50	7.1	0.14	7.09
Plastic	#2 HDPE Pigmented Bottles	All	25	4.6	0.18	5.43
Plastic	Film Plastic: Food/Drink Pouches	Iced Tea/Juice Drinks	100	1.3	0.01	76.92
Plastic	#3 PVC Bottles	All	4	0.4	0.09	11.43
Plastic	#5 PP Rigid Bottles	All	18	1.5	0.08	12.00
Plastic	#5 PP Rigid Bottles	Food	50	3.4	0.07	14.71
Plastic	#7 Other Bottles	All	16	2.0	0.12	8.21
Plastic	Dual Numbered Plastic Bottles	Ice Tea/Juice Drinks (1 - Gallon)	5	1.6	0.32	3.13
Aluminum	Aluminum Cans	All (Beverage only)	18	0.6	0.03	30.00
Aluminum	Aluminum Cans	Non-food	50	3.5	0.07	14.49
Beverage	Paper Beverage Cartons/Aseptic Boxes	Milk/Soy/ Dairy (8 .oz)	80	2.1	0.03	38.10
Beverage	Paper Beverage Cartons/Aseptic Boxes	Ice Tea/Juice Drinks and Milk (1/2 - Gallon)	20	3.5	0.18	5.71

**Industry Data**

Material	Container Type	Product Types(s)	Units Per Pound
Glass	Container Glass (All Colors)	All	0.5
Glass	Container Glass (All Colors)	Wine	1.08
Aluminum	Aluminum Cans	All	0.5
Steel	Steel/Tin Food Cans	All	0.159