

ATTACHMENT II
DSNY-MANAGED WASTE QUANTITIES
AND
PROJECTIONS FOR PLAN PERIOD

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EXHIBITS

Exhibit 1 Waste Generation Category Definitions

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**DSNY-MANAGED WASTE QUANTITIES AND PROJECTIONS
FOR PLAN PERIOD**

1.0 DSNY-MANAGED WASTE GENERATION, DIVERSION AND DISPOSAL

DSNY-managed Waste is putrescible and non-putrescible waste that DSNY collects, recycles or disposes of from all residences in the City, not-for-profit institutions, other City, state and federal agencies, as well as waste from special DSNY operations such as lot cleaning, street cleaning and other operations. This Attachment presents historical data for Fiscal Years 2002 through 2006 and projections for the 20-year period of the SWMP, FY 2007 through FY 2026, of waste generated, recycled and disposed (exported). Since March 2001 all waste disposed has been exported from the City, as indicated in the tables that follow.

Tables II 1-1, II 1-2 ,II 1-3 II 1-4 and II 1-5 present the reported quantities of DSNY-managed Waste and summarize the total waste generated and exported or diverted to recycling for the City from FY 2002 through FY 2006. On these tables, DSNY-managed Waste for Export is broken down into two main components: (1) DSNY curbside and containerized collections; and (2) “other” DSNY-managed Waste. This latter category of waste includes bulk waste collection, lot cleaning, street dirt and other miscellaneous categories of waste managed by DSNY. Also, Recycling, Composting and Reuse is broken down into two main components: (1) the waste diverted to recycling through the Curbside Recycling Program; and (2) “other” recycled wastes. This latter category of recycled wastes includes: derelict vehicle recycling, auto tires, lot cleaning bulk metal recycling and dirt reuse, DOT asphalt and millings recycling, and interagency clean fill and interagency road material. Exhibit 1, “Waste Generation Category Definitions,” at the end of this section provides definitions of each of the categories that appear in the Waste Generation tables below and discusses past and future changes in these categories.

**Table II 1-1
FY 2002 Actual Tonnage Generation**

FY 02 Actual Tonnage Generation	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	346,622	1,148
DSNY Regular Collection	2,727,679	9,032
Total DSNY Curbside/Containerized Refuse Collection	3,074,301	10,180
Other DSNY-Managed Waste		
Bulk	6,928	23
Lot Cleaning	29,412	97
Miscellaneous	9,097	30
Street Dirt	75,677	251
Other City Departments/Paid	125,812	417
Household Waste	37,998	126
Total "Other DSNY-Managed Waste"	284,924	943
Total DSNY-Managed Waste for Export	3,359,225	11,123
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	406,765	1,347
Metal, Glass and Plastic	330,286	1,094
Total Paper and MGP Recycling	737,051	2,441
Other Agency Recycling		
City Agency Recycling ⁽¹⁾	811	3
Self help metal recycling	6,685	22
Housing Authority bulk metal recycling	-	-
Food composting (Rikers)	6,167	20
Christmas tree composting	1,472	5
Yard and leaf composting	18,819	62
Materials for the Arts (reuse)	551	2
Total "Other Agency Recycling"	34,505	114
Total DSNY-Managed Curbside/Containerized Recycling	771,555	2,555

**Table II 1-1 (continued)
FY 2002 Actual Tonnage Generation**

FY 02 Actual Tonnage Generation	Total	
	Tonnage	TPD
Other Recycled Wastes		
Derelect vehicle recycling	13,941	46
Auto tire recycling	4,238	14
Lot cleaning bulk metal recycling and dirt reuse	3,757	12
DOT asphalt recycling	178,745	592
DOT millings recycling	90,974	301
Interagency clean fill reuse	327,899	1,086
Interagency road material reuse	238,090	788
Total "Other Recycled Wastes"	857,644	2,840
Total Recycling, Composting and Reuse	1,629,199	5,395
Grand Totals and Diversion Rates		
Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling⁽²⁾	3,845,856	12,735
Curbside/Containerized Diversion⁽³⁾	20.1%	
Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation⁽⁴⁾	4,988,424	16,518
Total DSNY-Managed Diversion⁽⁵⁾	32.7%	

Notes:

- (1) See Exhibit 1 at end of this section for a discussion of changes in the future status of these materials.
- (2) "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- (3) Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling", (line A ÷ line B).
- (4) "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- (5) "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation", (line C ÷ line D)

**Table II 1-2
FY 2003 Actual Tonnage Generation**

FY 03 Actual Tonnage Generation	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	373,067	1,235
DSNY Regular Collection	3,169,060	10,494
Total DSNY Curbside/Containerized Refuse Collection	3,542,127	11,729
Other DSNY-Managed Waste		
Bulk	7,535	25
Lot Cleaning	3,824	13
Miscellaneous	19,453	64
Street Dirt	62,296	206
Other City Departments/Paid	125,355	415
Household Waste ⁽¹⁾	38,610	128
Total "Other DSNY-Managed Waste"	257,073	851
Total DSNY-Managed Waste for Export	3,799,200	12,580
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	363,285	1,203
Metal, Glass and Plastic	82,930	275
Total Paper and MGP Recycling	446,215	1,478
Other Agency Recycling		
Self help metal recycling ⁽¹⁾	4,984	17
Housing Authority bulk metal recycling ⁽¹⁾	542	2
Food composting (Rikers)	5,650	19
Christmas tree composting	-	-
Yard and leaf composting	-	-
Materials for the Arts (reuse)	528	2
Total "Other Agency Recycling"	11,704	39
Total DSNY-Managed Curbside/Containerized Recycling	457,918	1,516

**Table II 1-2 (continued)
FY 2003 Actual Tonnage Generation**

FY 03 Actual Tonnage Generation	Total	
	Tonnage	TPD
Other Recycled Wastes		
Derelict vehicle recycling	13,858	46
Auto tire recycling	2,733	9
Lot cleaning bulk metal recycling and dirt reuse	3,442	11
DOT asphalt recycling	146,827	486
DOT millings recycling	70,715	234
Interagency clean fill reuse	401,617	1,330
Interagency road material reuse	311,561	1,032
Total "Other Recycled Wastes"	950,752	3,148
Total Recycling, Composting and Reuse	1,408,671	4,664
Grand Totals and Diversion Rates		
Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling⁽²⁾	4,000,045	13,245
Curbside/Containerized Diversion⁽³⁾	11.4%	
Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation⁽⁴⁾	5,207,871	17,245
Total DSNY-Managed Diversion⁽⁵⁾	27.0%	

Notes:

- ⁽¹⁾ See Exhibit I at end of this section for a discussion of changes in the future status of these materials.
- ⁽²⁾ "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- ⁽³⁾ Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling" (line A ÷ line B)
- ⁽⁴⁾ "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- ⁽⁵⁾ "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" (line C ÷ line D)

**Table II 1-3
FY 2004 Actual Tonnage Generation**

FY 04 Actual Tonnage Generation	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	387,662	1,284
DSNY Regular Collection	3,152,318	10,438
Total DSNY Curbside/Containerized Refuse Collection	3,539,979	11,722
Other DSNY-Managed Waste		
Bulk	7,786	26
Lot Cleaning	5,090	17
Miscellaneous	39,878	132
Street Dirt	56,670	188
Other City Departments/Paid	122,009	404
Household Waste	220	1
Total "Other DSNY-Managed Waste"	231,653	767
Total DSNY-Managed Waste for Export	3,771,632	12,489
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	381,111	1,262
Metal, Glass and Plastic	160,462	531
Total Paper and MGP Recycling	541,572	1,793
Other Agency Recycling		
Bulk Metal ⁽¹⁾	5,249	17
Food composting (Rikers)	5,600	19
Christmas tree composting	1,024	3
Yard and leaf composting	-	-
Materials for the Arts (reuse)	567	2
Total "Other Agency Recycling"	12,441	41
Total DSNY-Managed Curbside/Containerized Recycling	554,013	1,834

**Table II 1-3 (continued)
FY 2004 Actual Tonnage Generation**

FY 04 Actual Tonnage Generation	Total	
	Tonnage	TPD
Other Recycled Wastes		
Derelict vehicle recycling	12,836	43
Auto tire recycling	3,362	11
Lot cleaning bulk metal recycling and dirt reuse	2,012	7
DOT asphalt recycling	150,803	499
DOT millings recycling	114,319	37
Interagency clean fill reuse	444,717	1,473
Interagency road material reuse	213,652	707
Total "Other Recycled Wastes"	941,702	3,118
Total Recycling, Composting and Reuse	1,495,715	4,953
Grand Totals and Diversion Rates		
Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling⁽²⁾	4,093,992	13,556
Curbside/Containerized Diversion⁽³⁾	13.5%	
Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation⁽⁴⁾	5,267,347	17,442
Total DSNY-Managed Diversion⁽⁵⁾	28.4%	

Notes:

- (1) See Exhibit I at end of this section for a discussion of changes in the future status of these materials.
- (2) "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- (3) Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling" (line A ÷ line B)
- (4) "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- (5) "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" (line C ÷ line D)

**Table II 1-4
FY 2005 Actual Tonnage Generation**

FY 05 Actual Tonnage Generation	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	403,342	1,336
DSNY Regular Collection	2,982,122	9,875
Total DSNY Curbside/Containerized Refuse Collection	3,385,464	11,210
Other DSNY-Managed Waste		
Bulk	8,448	28
Lot Cleaning	12,930	43
Miscellaneous	2,249	7
Street Dirt	63,428	210
Other City Departments/Paid	115,805	383
Total "Other DSNY-Managed Waste"	202,860	672
Total DSNY-Managed Waste for Export	3,588,324	11,882
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	416,468	1,335
Metal, Glass and Plastic	247,297	793
Total Paper and MGP Recycling	663,765	2,127
Other Agency Recycling		
Bulk Metal	3,650	12
Food composting (Rikers)	4,649	15
Christmas tree composting	1,373	4
Yard and leaf composting	17,035	55
Materials for the Arts (reuse)	686	2
Total "Other Agency Recycling"	27,394	88
Total DSNY-Managed Curbside/Containerized Recycling	691,159	2,215

**Table II 1-4 (continued)
FY 2005 Actual Tonnage Generation**

FY 05 Actual Tonnage Generation	Total	
	Tonnage	TPD
Other Recycled Wastes		
Derelict vehicle recycling	9,797	31
Auto tire recycling	2,090	7
Lot cleaning bulk metal recycling and dirt reuse	1,529	5
DOT asphalt recycling	137,686	441
DOT millings recycling	118,092	379
Interagency clean fill reuse	489,216	1,568
Interagency road material reuse	216,341	693
Total "Other Recycled Wastes"	974,750	3,124
Total Recycling, Composting and Reuse	1,665,909	5,339
Grand Totals and Diversion Rates		
A. Total DSNY-Managed Curbside/Containerized Recycling	691,159	2,215
B. Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling⁽¹⁾	4,076,623	13,425
Curbside/Containerized Diversion⁽²⁾	17.0%	
C. Total Recycling, Composting and Reuse	1,665,909	5,339
D. Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation⁽³⁾	5,254,233	17,221
Total DSNY-Managed Diversion⁽⁴⁾	31.7%	

Notes:

- (1) "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- (2) Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling" (line A ÷ line B)
- (3) "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- (4) "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" (line C ÷ line D)

**Table II 1-5
FY 2006 Actual Tonnage Generation**

FY 06 Actual Tonnage Generation	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	411,021	1,361
DSNY Regular Collection	2,951,576	9,773
Total DSNY Curbside/Containerized Refuse Collection	3,362,597	11,134
Other DSNY-Managed Waste		
Bulk	7,653	25
Lot Cleaning	10,114	33
Miscellaneous	2,025	7
Street Dirt	65,758	218
Other City Departments/Paid	110,738	367
Total "Other DSNY-Managed Waste"	196,289	650
Total DSNY-Managed Waste for Export	3,558,886	11,784
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	397,394	1,316
Metal, Glass and Plastic	243,454	806
Total Paper and MGP Recycling	640,848	2,122
Other Agency Recycling		
Bulk Metal	3,026	10
Food composting (Rikers)	4,836	16
Christmas tree composting	1,310	4
Yard and leaf composting	13,166	44
Materials for the Arts (reuse)	749	2
Total "Other Agency Recycling"	23,088	76
Total DSNY-Managed Curbside/Containerized Recycling	663,936	2,198

**Table II 1-5
FY 2006 Actual Tonnage Generation**

FY 06 Actual Tonnage Generation	Total	
	Tonnage	TPD
Other Recycled Wastes		
Derelict vehicle recycling	9,266	31
Auto tire recycling	1,591	5
Lot cleaning bulk metal recycling and dirt reuse	749	2
DOT asphalt recycling	187,574	621
DOT millings recycling	128,294	425
Interagency clean fill reuse	315,619	1,045
Interagency road material reuse	249,444	826
Total "Other Recycled Wastes"	892,538	2,955
Total Recycling, Composting and Reuse	1,556,474	5,154
Grand Totals and Diversion Rates		
A. Total DSNY-Managed Curbside/Containerized Recycling	663,936	2,198
B. Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling¹	4,026,533	13,333
Curbside/Containerized Diversion²	16.5%	
C. Total Recycling, Composting and Reuse	1,556,474	5,154
D. Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation³	5,115,360	16,938
Total DSNY-Managed Diversion⁴	30.4%	

Notes:

- (1) "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- (2) Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling" (line A ÷ line B)
- (3) "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- (4) "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" (line C ÷ line D)

2.0 WASTE PROJECTIONS

The projections of waste generation over the period of the SWMP (2006 through 2025) use reported quantities for Fiscal Year 200 as a baseline. The Curbside/Containerized Refuse Collection and Curbside/Containerized Recycling portion of the waste stream was assumed to increase at the rate of population increase. The projections use adjusted New York Metropolitan Transportation Council (NYMTC) population forecasts. Population projections for Fiscal Years 2007 through 2026, derived from NYMTC forecasts of population growth in five year intervals for the years 2005 through 2030, are shown in Table II 2-1. In the interim between the issuance of the Draft SWMP in October 2004 and its adoption by the City Council in July 2006, the NYMTC updated the forecasts that were originally used. Table II 2 -1 in this SWMP is revised to reflect this new population forecast data for the 20-year Plan period. These data project a substantially higher population increase, approximately 14% compared to the 4.7% increase in the earlier forecast. The waste quantity projections over the period 2007 -2026 have been revised to reflect the increased population forecast.

NYMTC long-term population forecasts are relied upon for planning purposes by most City Agencies; there is no other source of population data for a 20-year forecast period. Since NYMTC data is provided in Calendar Years, straight line interpolation between values for successive years was used to estimate the population in the Fiscal Year period of July 1 through June 30.

Forecasts of future waste generation were developed by increasing the FY 2006 Curbside/Containerized Refuse Collection and Curbside/Containerized Recycling tonnage by the NYMTC-predicted increase in population in five year intervals through FY 2026. Tables II 2-2 through II 2-6 show the projections for DSNY-managed Waste quantities and Recyclables for FY 2007, 2010, 2015, 2020 and 2026.

Compared to DSNY Curbside and Containerized Waste and Recyclables, the generation of “other” materials such as street dirt, other City departments and lot cleaning operations, while variable, is not assumed to vary directly with population growth. In the absence of data that is known to correlate directly with changes in the waste generated in these categories, they were held constant over the period of the forecast.

As shown in Tables II 1-2 through II 1-5 above, there are no reported tonnages in the category of “City Agency Recycling” for FY 2003, 2004, 2005 and 2006 . This is the result of the “White Office Paper Program” being discontinued in FY 2003. Since this program was discontinued, this category of material was eliminated from actual and projected tables for subsequent years. Where there were or will be changes in other categories of materials, these are discussed on Exhibit 1 at the end of this section and noted in the tables.

In addition to the forecasting methodology described above, additional assumptions were applied to the recycling quantities to account for expansions of existing recycling programs and implementation of new programs, as well as for achieving the diversion goals discussed in Attachment VII. For FY 2007, the following additional assumptions were applied:

- The allocation of paper in the Total Paper and MGP Recycling category assumes that designated paper comprises 21.5% of the Total DSNY Curbside/Containerized Refuse Collection, as determined by the Preliminary Waste Characterization Study (conducted in May and June 2004). The capture rate for designated paper was assumed to be 50%, taking into account the actual FY 2004 capture rate of approximately 43%, and the FY 2007 capture rate goal of 70%.
- The allocation of MGP in the Total Paper and MGP Recycling category assumes that designated MGP comprises 12.2% of the Total DSNY Curbside/Containerized Refuse Collection, as determined by the Preliminary Waste Characterization Study.” The capture rate for MGP material was assumed to be 70%. This assumption is based on the fact that, in FY 2002 (prior to the suspension of plastic and glass recycling), City residents and institutions serviced by DSNY were already achieving the equivalent of a 70% capture rate for MGP.

For FY 2010 through 2026, the following additional assumptions were applied:

- Paper and MGP were each projected to have capture rates of 70%. Capture rates could potentially increase beyond this (especially for MGP); however, a 70% capture rate is an ambitious, yet reasonable, assumption. (See Attachment VII for more information on the rationale for a 70% capture rate goal.)
- Tonnages in certain categories listed as “Other Agency Recycling” were projected to increase from FY 2007 levels and then remain constant through FY 2026. These include: self-help bulk metal, Rikers Island food-waste composting, Christmas tree composting, yard and leaf composting, and Materials for the Arts (reuse program). This assumption is

based on the fact that while these programs have room to grow in the short term, their diversion potential will, at some point, be reached

- Tonnages in the category of “New programs” listed under “Other Agency Recycling” were projected to increase over the period of FY 2010 through FY 2026. These new programs may include designating additional materials to the Recycling Program, such as #3-#7 plastics, or piloting new technologies to target organic wastes.

Based on the forecasts mentioned above, two diversion rates were calculated: the “Curbside/Containerized Diversion” and the “Total DSNY-managed Diversion.” The calculations for these diversion rates are:

Curbside/Containerized Diversion:

“Total DSNY-managed Curbside/Containerized Recycling” divided by
“Total DSNY-managed Curbside/Containerized Refuse Collection and
Recycling”

Total DSNY-managed Diversion:

“Total Recycling, Composting and Reuse” divided by
“Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse)
Generation”

As shown by the projections in Tables II 2-2 through II 2-6 over the period of the forecast, the total diversion rate of Curbside/Containerized waste and of total DSNY-managed Waste is anticipated to increase over time. These diversion rates are consistent with diversion goals discussed in Attachment VII: Rationale for Amending Local Law 19, which establishes a 25% diversion goal for the Curbside waste stream, and a 35% diversion goal for the DSNY-managed Waste stream, both to be achieved in the fiscal year 2007.

**Table II 2-1
FY 2004 through FY 2026 Projected Population**

FY 2004 through FY 2026 Projected Population												
Year	Manhattan		Bronx		Brooklyn		Queens		Staten Island		Total	
	Population	% Change from FY 2006	Population	% Change from FY 2006	Population	% Change from FY 2006						
FY 2004	1,564,798		1,363,198		2,472,523		2,225,486		459,737		8,085,742	
FY 2005	1,578,413		1,366,392		2,504,601		2,260,930		468,101		8,178,437	
FY 2006	1,587,231		1,369,816		2,520,354		2,278,901		473,269		8,229,571	
FY 2007	1,595,791	0.54%	1,374,536	0.34%	2,530,474	0.40%	2,291,212	0.54%	478,029	1.01%	8,270,042	0.49%
FY 2010	1,621,471	2.16%	1,388,696	1.38%	2,560,834	1.61%	2,328,145	2.16%	492,309	4.02%	8,391,455	1.97%
FY 2015	1,648,356	3.85%	1,427,956	4.24%	2,616,654	3.82%	2,434,110	6.81%	520,789	10.04%	8,647,865	5.08%
FY 2020	1,673,278	5.42%	1,479,576	8.01%	2,681,514	6.39%	2,594,240	13.84%	550,959	16.42%	8,979,567	9.11%
FY 2026	1,695,668	6.83%	1,547,816	12.99%	2,767,614	9.81%	2,760,210	21.12%	595,189	25.76%	9,366,497	13.82%

**Table II 2-2
FY 2007 Projected Generated Tonnage**

FY 2007 Projected Tonnage Generation Generated Tonnage	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	345,678	1,145
DSNY Regular Collection	2,720,254	9,007
Total DSNY Curbside/Containerized Refuse Collection	3,065,932	10,152
Other DSNY-Managed Waste		
Bulk	7,653	25
Lot Cleaning	10,114	33
Miscellaneous	2,025	7
Street Dirt	65,758	218
Other City Departments/Paid	110,738	367
Total "Other DSNY-Managed Waste"	196,289	650
Total DSNY-Managed Waste for Export	3,262,221	10,802
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	610,731	2,022
Metal, Glass and Plastic	346,470	1,147
Total Paper and MGP Recycling	957,200	3,170
Other Agency Recycling		
Bulk Metal	5,500	18
Food composting (Rikers)	6,000	20
Christmas tree composting	1,750	6
Yard and leaf composting	26,500	88
Materials for the Arts (reuse)	800	3
Total "Other Agency Recycling"	40,550	134
Total DSNY-Managed Curbside/Containerized Recycling	997,75	3,304

**Table II 2-2 (continued)
FY 2007 Projected Generated Tonnage Tonnage**

FY 2007 Projected Tonnage Generation Generated Tonnage	Total	
	Tonnage	TPD
Other Recycled Wastes		
Derelict vehicle recycling	9,266	31
Auto tire recycling	1,591	5
Lot cleaning bulk metal recycling and dirt reuse	749	2
DOT asphalt recycling ⁽¹⁾	187,574	621
DOT millings recycling ⁽¹⁾	128,294	425
Interagency clean fill reuse ⁽¹⁾	315,619	1,045
Interagency road material reuse ⁽¹⁾	249,444	826
Total "Other Recycled Wastes"	892,538	2,955
Total Recycling, Composting and Reuse	1,890,289	6,259
Grand Totals and Diversion Rates		
A. Total DSNY-Managed Curbside/Containerized Recycling	997,750	3,304
B. Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling⁽²⁾	4,063,683	13,456
Curbside/Containerized Diversion⁽³⁾	25%	
C. Total Recycling, Composting and Reuse	1,890,289	6,259
D. Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation⁽⁴⁾	5,152,510	17,061
Total DSNY-Managed Diversion⁽⁵⁾	36.7%	

Notes:

- ⁽¹⁾ See Exhibit 1 at end of this section for a discussion of changes in the future status of these materials.
- ⁽²⁾ "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- ⁽³⁾ Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling" (line A ÷ line B)
- ⁽⁴⁾ "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- ⁽⁵⁾ "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation", (line C ÷ line D).

**Table II 2-3
FY 2010 Projected Generated Tonnage**

FY 2010 Projected Generated Tonnage	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	368,306	1,220
DSNY Regular Collection	2,723,079	9,017
Total DSNY Curbside/Containerized Refuse Collection	3,091,385	10,236
Other DSNY-Managed Waste		
Bulk	7,653	25
Lot Cleaning	10,114	33
Miscellaneous	2,025	7
Street Dirt	65,758	218
Other City Departments/Paid	110,738	367
Total "Other DSNY-Managed Waste"	196,289	650
Total DSNY-Managed Waste for Export	3,287,673	10,886
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	632,176	2,093
Metal, Glass and Plastic	358,636	1,188
Total Paper and MGP Recycling	990,812	3,281
Other Agency Recycling		
Bulk Metal	5,500	18
Food composting (Rikers)	7,000	23
Christmas tree composting	2,500	8
Yard and leaf composting	50,000	166
Materials for the Arts (reuse)	1,000	3
New programs ⁽¹⁾	58,180	193
Total "Other Agency Recycling"	124,180	411
Total DSNY-Managed Curbside/Containerized Recycling	1,114,992	3,692

**Table II 2-3 (continued)
FY 2010 Projected Generated Tonnage**

FY 2010 Projected Generated Tonnage	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
Other Recycled Wastes		
Derelict vehicle recycling	9,266	31
Auto tire recycling	1,59	5
Lot cleaning bulk metal recycling and dirt reuse	749	2
DOT asphalt recycling ⁽²⁾	187,574	621
DOT millings recycling ⁽²⁾	128,294	425
Interagency clean fill reuse ⁽²⁾	315,619	1,045
Interagency road material reuse ⁽²⁾	249,444	826
Total "Other Recycled Wastes"	892,538	2,955
Total Recycling, Composting and Reuse	2,007,530	6,647
Grand Totals and Diversion Rates		
A. Total DSNY-Managed Curbside/Containerized Recycling	1,114,992	3,692
B. Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling⁽³⁾	4,206,377	13,928
Curbside/Containerized Diversion⁽⁴⁾	26.5%	
C. Total Recycling, Composting and Reuse	2,007,530	6,647
D. Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation⁽⁵⁾	5,295,204	17,534
Total DSNY-Managed Diversion⁽⁶⁾	37.9%	

Notes:

- (1) New programs may include those targeting waste prevention, other plastics recycling, or other streams.
- (2) See Exhibit 1 at end of this section for a discussion of changes in the future status of these materials.
- (3) "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- (4) Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling" (line A ÷ line B)
- (5) "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- (6) "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" (line C ÷ line D)

**Table II 2-4
FY 2015 Projected Generated Tonnage**

FY 2015 Projected Generated Tonnage	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	377,286	1,249
DSNY Regular Collection	2,789,474	9,237
Total DSNY Curbside/Containerized Refuse Collection	3,166,760	10,486
Other DSNY-Managed Waste		
Bulk	7,653	25
Lot Cleaning	10,114	33
Miscellaneous	2,025	7
Street Dirt	65,758	218
Other City Departments/Paid	110,738	367
Total "Other DSNY-Managed Waste"	196,289	650
Total DSNY-Managed Waste for Export	3,363,049	11,136
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	663,671	2,198
Metal, Glass and Plastic	376,502	1,247
Total Paper and MGP Recycling	1,040,173	3,444
Other Agency Recycling		
Bulk Metal	5,500	18
Food composting (Rikers)	7,000	23
Christmas tree composting	2,500	8
Yard and leaf composting	50,000	166
Materials for the Arts (reuse)	1,000	3
New programs ⁽¹⁾	143,000	474
Total "Other Agency Recycling"	209,000	692
Total DSNY-Managed Curbside/Containerized Recycling	1,249,173	4,136

**Table II 2-4 (continued)
FY 2015 Projected Generated Tonnage**

FY 2015 Projected Generated Tonnage	Total	
	Tonnage	TPD
Other Recycled Wastes		
Derelict vehicle recycling	9,266	31
Auto tire recycling	1,591	5
Lot cleaning bulk metal recycling and dirt reuse	749	2
DOT asphalt recycling ⁽²⁾	187,574	621
DOT millings recycling ⁽²⁾	128,294	425
Interagency clean fill reuse ⁽²⁾	315,619	1,045
Interagency road material reuse ⁽²⁾	249,444	826
Total "Other Recycled Wastes"	892,538	2,955
Total Recycling, Composting and Reuse	2,141,711	7,092
Grand Totals and Diversion Rates		
A. Total DSNY-Managed Curbside/Containerized Recycling	1,249,173	4,136
B. Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling⁽³⁾	4,415,933	14,622
Curbside/Containerized Diversion⁽⁴⁾	28.3%	
C. Total Recycling, Composting and Reuse	2,141,711	7,092
D. Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation⁽⁵⁾	5,504,760	18,228
Total DSNY-Managed Diversion⁽⁶⁾	38.9%	

Notes:

- (1) New programs may include those targeting waste prevention, other plastics recycling, or other streams.
- (2) See Exhibit 1 at end of this section for a discussion of changes in the future status of these materials.
- (3) "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- (4) Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling" (line A ÷ line B)
- (5) "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- (6) "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" (line C ÷ line D)

**Table II 2-5
FY 2020 Projected Generated Tonnage**

FY 2020 Projected Generated Tonnage	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	389,260	1,289
DSNY Regular Collection	2,878,006	9,530
Total DSNY Curbside/Containerized Refuse Collection	3,267,266	10,819
Other DSNY-Managed Waste		
Bulk	7,653	25
Lot Cleaning	10,114	33
Miscellaneous	2,025	7
Street Dirt	65,758	218
Other City Departments/Paid	110,738	367
Total "Other DSNY-Managed Waste"	196,289	650
Total DSNY-Managed Waste for Export	3,463,554	11,469
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	702,500	2,326
Metal, Glass and Plastic	398,530	1,320
Total Paper and MGP Recycling	1,101,030	3,646
Other Agency Recycling		
Bulk Metal	5,500	18
Food composting (Rikers)	7,000	23
Christmas tree composting	2,500	8
Yard and leaf composting	50,000	166
Materials for the Arts (reuse)	1,000	3
New programs ⁽¹⁾	240,000	795
Total "Other Agency Recycling"	306,000	1,013
Total DSNY-Managed Curbside/Containerized Recycling	1,407,030	4,659

**Table II 2-5 (continued)
FY 2020 Projected Generated Tonnage**

FY 2020 Projected Generated Tonnage	Total	
	Tonnage	TPD
Other Recycled Wastes		
Derelict vehicle recycling	9,266	31
Auto tire recycling	1,591	5
Lot cleaning bulk metal recycling and dirt reuse	749	2
DOT asphalt recycling ⁽²⁾	187,574	621
DOT millings recycling ⁽²⁾	128,294	425
Interagency clean fill reuse ⁽²⁾	315,619	1,045
Interagency road material reuse ⁽²⁾	249,444	826
Total "Other Recycled Wastes"	892,538	2,955
Total Recycling, Composting and Reuse	2,299,569	7,614
Grand Totals and Diversion Rates		
A. Total DSNY-Managed Curbside/Containerized Recycling	1,407,030	4,659
B. Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling⁽³⁾	4,674,296	15,478
Curbside/Containerized Diversion⁽⁴⁾	30.1%	
C. Total Recycling, Composting and Reuse	2,299,569	7,614
D. Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation⁽⁵⁾	5,763,123	19,083
Total DSNY-Managed Diversion⁽⁶⁾	39.9%	

Notes:

- (1) New programs may include those targeting waste prevention, other plastics recycling, or other streams.
- (2) See Exhibit 1 at end of this section for a discussion of changes in the future status of these materials.
- (3) "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- (4) Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling" (line A ÷ line B)
- (5) "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- (6) "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" (line C ÷ line D)

**Table II 2-6
FY 2026 Projected Generated Tonnage**

FY 2026 Projected Generated Tonnage	Total	
	Tonnage	TPD
DSNY-Managed Waste for Export		
DSNY Curbside/Containerized Refuse Collection		
DSNY Containerized Collection	381,963	1,265
DSNY Regular Collection	2,824,059	9,351
Total DSNY Curbside/Containerized Refuse Collection	3,206,023	10,616
Other DSNY-Managed Waste		
Bulk	7,653	25
Lot Cleaning	10,114	33
Miscellaneous	2,025	7
Street Dirt	65,758	218
Other City Departments/Paid	110,738	367
Total "Other DSNY-Managed Waste"	196,289	650
Total DSNY-Managed Waste for Export	3,402,311	11,266
Recycling, Composting and Reuse		
DSNY-Managed Curbside/Containerized Recycling		
Paper and MGP Recycling		
Paper	741,575	2,456
Metal, Glass and Plastic	420,698	1,393
Total Paper and MGP Recycling	1,162,273	3,849
Other Agency Recycling		
Bulk Metal	5,500	18
Food composting (Rikers)	7,000	23
Christmas tree composting	2,500	8
Yard and leaf composting	50,000	166
Materials for the Arts (reuse)	1,000	3
New programs ⁽¹⁾	500,000	1,656
Total "Other Agency Recycling"	566,000	1,874
Total DSNY-Managed Curbside/Containerized Recycling	1,728,273	5,723

**Table II 2-6 (continued)
FY 2026 Projected Generated Tonnage**

FY 2026 Projected Generated Tonnage	Total	
	Tonnage	TPD
Other Recycled Wastes		
Derelict vehicle recycling	9,266	31
Auto tire recycling	1,591	5
Lot cleaning bulk metal recycling and dirt reuse	749	2
DOT asphalt recycling ⁽²⁾	187,574	621
DOT millings recycling ⁽²⁾	128,294	425
Interagency clean fill reuse ⁽²⁾	315,619	1,045
Interagency road material reuse ⁽²⁾	249,444	826
Total "Other Recycled Wastes"	892,538	2,955
Total Recycling, Composting and Reuse	2,620,812	8,678
Grand Totals and Diversion Rates		
A. Total DSNY-Managed Curbside/Containerized Recycling	1,728,273	5,723
B. Total DSNY-Managed Curbside/Containerized Refuse Collection & Recycling⁽³⁾	4,934,296	16,339
Curbside/Containerized Diversion⁽⁴⁾	35.0%	
C. Total Recycling, Composting and Reuse	2,620,812	8,678
D. Total (DSNY-Managed Waste for Export, Recycling, Compost and Reuse) Generation⁽⁵⁾	6,023,123	19,944
Total DSNY-Managed Diversion⁽⁶⁾	43.5%	

Notes:

- (1) New programs may include those targeting waste prevention, other plastics recycling, or other streams.
- (2) See Exhibit 1 at end of this section for a discussion of changes in the future status of these materials.
- (3) "Total DSNY-managed Curbside/Containerized Refuse Collection & Recycling" is the sum of "Total DSNY Curbside/Containerized Refuse Collection" and "Total DSNY-managed Curbside/Containerized Recycling"
- (4) Curbside/Containerized Diversion is calculated as "Total DSNY-managed Curbside/Containerized Recycling" divided by "Total DSNY-managed Curbside/Containerized Refuse Collection and Recycling" (line A ÷ line B).
- (5) "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" is the sum of "Total DSNY-managed Waste for Export" and "Total Recycling, Composting and Reuse"
- (6) "Total DSNY-managed Diversion" is calculated as "Total Recycling, Composting and Reuse" divided by "Total (DSNY-managed Waste for Export, Recycling, Compost and Reuse) Generation" (line C ÷ line D).

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EXHIBIT 1
Waste Generation Category Definitions

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Exhibit 1
Waste Generation Category Definitions

DSNY-managed Waste for Export

DSNY Containerized Collection: Refuse collected via preset oversized metal containers.

DSNY Curbside Collection: Refuse collected in rear-loading packer trucks.

Bulk: Non-household refuse items that are too large to fit into bags or containers.

Lot Cleaning: Refuse resulting from DSNY lot cleaning operations.

Miscellaneous: Refuse that does not fit under any of the other categories.

Street Dirt: Refuse collected from mechanical street sweeper.

Other City Departments/Paid: Refuse delivered to transfer stations from other City Departments (such as NYCDEP, Department of Parks and Recreation, etc.) in which DSNY incurs the cost of transport and disposal.

Household Waste: Refuse remaining after recycling materials have been removed from self-help sites. The Self Help Program was discontinued as of FY 2003 and this category of waste is not reported for subsequent years.

Recycling, Composting and Reuse

Bulk Metal: This category is added in FY 2004 and subsequent years to reflect DSNY pick up of recycled bulk metal from households and Housing Authority developments.

Paper: Recycling of newspaper, cardboard and mixed paper collected by DSNY from residents and public institutions.

Metal, Glass and Plastic: Recycling of metal, glass bottles and jars, plastic bottles and jugs, and beverage cartons collected by DSNY from residents and public institutions.

City Agency Recycling: Recycling of white office paper collected from City agencies by DSNY contractor. This program was discontinued as of FY 2003 and this category of waste is not reported for subsequent years.

Self-Help Metal Recycling: The recycling of bulk metal dropped off by residents at DSNY's self-help sites throughout the five boroughs. The Self Help Program was discontinued as of FY 2003 and this category of waste is not reported for subsequent years. Bulk Metal from households and institutions continues to be collected by DSNY forces and is reported as Bulk Metal under Other City Agency Recycling category in the Attachment II Tables for FY 2004 and beyond.

Housing Authority Bulk Metal Recycling: The recycling of bulk metal collected from Housing Authority buildings by DSNY contractor. This program was discontinued as of FY 2004 and this category of waste is not reported for subsequent years. Bulk Metal from Housing Authority Developments continues to be collected by DSNY forces and is reported as Bulk Metal under Other City Agency Recycling category in the Attachment II Tables for FY 2004 and beyond.

Food Composting (Rikers): Food composting at the Rikers Island Pilot Composting Facility, a facility funded and operated by DSNY that accepts food waste from the City Department of Corrections Facilities on Rikers Island.

Christmas Tree Composting: Composting of Christmas trees collected from residents by DSNY, and processed at DSNY compost sites in the Bronx, Queens, Brooklyn and Staten Island.

Yard and Leaf Composting: Composting of leaves and brush collected from residents of the Bronx, Queens, Brooklyn and Staten Island by DSNY; and processed at DSNY compost sites in the Bronx, Queens, Brooklyn and Staten Island.

Materials for the Arts (reuse): The reuse of materials donated to "Materials for the Arts," a non-profit reuse center funded by DSNY.

Derelict Vehicle Recycling: The recycling of abandoned automobiles collected and recycled under private contract to DSNY.

Auto Tire Recycling: The recycling of auto tires collected during DSNY lot and street cleaning operations.

Lot Cleaning Bulk Metal Recycling and Dirt Reuse: The recycling of bulk metal from DSNY lot cleaning operations, and the reuse of dirt from DSNY lot cleaning operations for landscaping at DSNY facilities and DSNY-serviced lots and other properties.

DOT Asphalt and DOT Millings Recycling: The recycling of old asphalt and millings generated by Department of Transportation (DOT) roadwork used in DSNY paving projects. Some of this material is recycled at DOT facilities and made into new asphalt. The balance of the material is used at Fresh Kills for on-site road projects. Although a final decision on the timing has not yet been made, as the Fresh Kills road and closure construction projects are completed in the next few years, the processing and on-site reuse of this material will eventually end. However, this material will continue to be generated by City road projects and will likely be recycled at other facilities in the City. Since these quantities are not reflected in projections of recycled C&D and Clean Fill in Attachment IV, they are carried forward as recycled material generated from City projects in these tables.

Interagency Clean Fill and Interagency Road Material Recycling: The recycling of inert construction and demolition debris from public construction projects, is delivered by City contractors, processed and reused at Fresh Kills for road building, paving, contouring,

landscaping and erosion control. Although a final decision on the timing has not been made, as Fresh Kills road and closure construction projects are completed in the next few years, the processing and on-site reuse of this material will eventually end. However, this material will continue to be generated by City road projects and will likely be recycled at other facilities in the City. Since these quantities are not reflected in projections of recycled C&D and Clean Fill in Attachment IV, they are carried forward as recycled material generated from City projects in these tables.