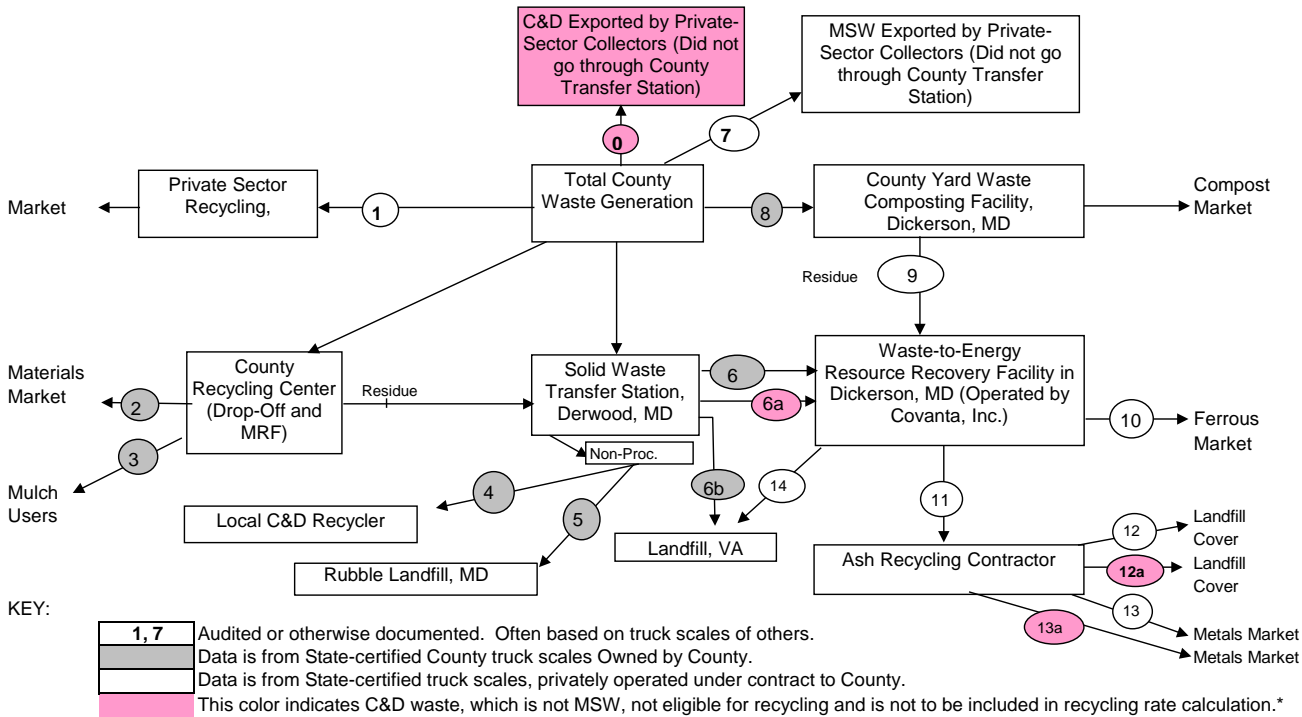


# MATERIAL FLOW DIAGRAM Calendar Year 2011



Total Waste Generation, Including C&D Exported by Private Sector	1,319,771
County-Managed Waste (CMW) = 1 + 2 + 3 + 4 + 5 + 6 + 6a + 6b + 7 + 8	1,194,401
<b>MSW Generated (above less streams 4, 5 and 6a)</b>	<b>1,086,499</b>

626,676      607,897.00

Stream No.	Material Description	Sources of Data	Total (tons/yr)	Comments
0	Construction & Demo Debris Private Export	Licensed Collector Reports under ER 92-59	125,370	Not County-managed, includes both disposed and recycled C & D
1	Recycled via non-County Facilities	Collector, Processor, Business & Self-Hauler Rpts.	230,306	Filtered to avoid double-counting
2	County Recycling Facility Material Sales	County TS & MRF Scales, Outbound	85,122	Outgoing to market from County Recycling Center
3	Mulch Loaded Out From TS	County Transfer Station (TS) Scale Records	57,530	Scaled out as taken to County Mulch Contractor & Preserve Locations
4	Non-Processibles Recycled**	County TS Scale Out Records	33,297	Not included in MRA recycling calculation
5	Non-Processibles Landfilled**	County Trans. Sta'n. & Covanta Scale Records	-	Not included in MRA recycling calculation
6	Loaded on Rail to RRF (MSW burned)	Covanta Scales as Loaded	481,941	Total tons loaded on rail to RRF Net of 7a
6a	Loaded on Rail to RRF (C&D Burned)	County Transfer Station (TS) Scale Records	74,604	In-bound C&D less outbound Non-Processibles Landfilled
6b	By-pass (Accepted Processible Landfilled)	County TS Scale Out Records	-	
7	Refuse Disposed Out of County	Audited 6-Mo. Hauler Reports	155,556	Private Sector MSW Collection not delivered to County TS
8	All Incoming Leaves and Grass	Compost Facility & TS Scale Records	76,044	Includes 0 to Backup Composters
9	Composting Residue to RRF	Covanta Scale Records	-	Reported by Compost Facility Manager
10	Ferrous recovered at RRF	Covanta Scale Records	11,048	Recovered from ash at County Facility
11	Ash Loaded to Ash Recycling Contractor	Allied Monthly Report	166,625	Total ash (includes 12, 12a, 13, 13a, and 14)
12	Non-Metal Outgoing from Ash Recycler	Allied Monthly Report	144,289	Included in MRA recycling calculation
12a	Non-Metal Outgoing from Ash Recycler (C&D Residue)	Internal Calculation	22,336	Not included in MRA recycling calculation
13	Metals Outgoing from Ash Recycler	Allied Monthly Report	-	Metals from ash recycled; included in MRA recycling rate calculation
13a	Metals Outgoing from Ash Recycler (C&D Residue)	Internal Calculation	-	Not included in MRA recycling calculation
14	All ash not recycled	Covanta Scale Records	-	

Montgomery County Recycling Rate and Diversion Rate Calculations (MRA Method)		Numerator	Denominator	Rate
<b>Recycling Rate</b>	$(1 + 2 + 3 + 8 - 9 + 10 + 12 + 13) / (CMW - 4 - 5 - 6a)$	<b>604,340</b>	<b>1,086,499</b>	<b>55.6%</b>
<b>Waste Diversion Rate</b>	$(1 + 2 + 3 + 8 - 9 + 10 + 12 + 13) / (CMW - 4 - 5 - 6a) + 5.0\%$	<b>604,340</b>	<b>1,086,499</b>	<b>60.6% ***</b>

**Notes:**

- \* Construction and Demolition waste (C&D) is waste identified by place of origin - construction and land clearing sites. C&D is reported on licensed hauler reports, but there may be additional C&D not reported and therefore not included in stream 0.
- \*\* Nonprocessibles are Construction & Demolition-type materials: not eligible for recycling credit, but are County-managed solid waste.
- \*\*\* Diversion Rate = Recycle Rate + 5.0% Source Reduction Credit

**Nomenclature:**

- "C&D" means "Construction and Demolition" waste, exclusive of MSW, traditionally managed by the private sector, but much now comes to County TS.
- "CMW" means "County Management Waste". It includes all MSW, whether or not exported by private sector collectors, but only C&D delivered to TS.
- "MSW" stands for "Municipal Solid Waste", and represents the waste eligible for recycling under the State recycling law, regulations and guidelines.
- "TS" stands for the County's "Transfer Station", located in Derwood, Maryland, just south of Gaithersburg.
- "MRF" stands for Material Recovery Facility
- "RRF" stands for Resource Recovery Facility