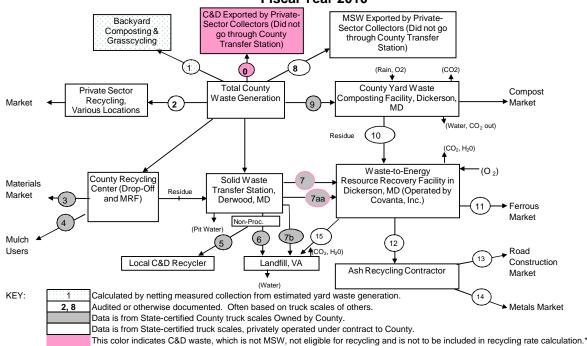
MATERIAL FLOW DIAGRAM Fiscal Year 2010



| Total Waste Generation, Including C&D Exported by Private Sector | 1,297,533 |
|--|-----------|
| County-Managed Waste (CMW) = 1 + 2 + 3 + 4 + 5 + 6 + 7+7a+7b + 8 + 9 = | 1,204,650 |
| MSW Generated (above less streams 5, 6 and 7a) | 1,080,346 |

| Stream | Material | Sources of Data | Total | | | |
|--------|--|--|-----------|---|--|--|
| No. | Description | | (tons/yr) | Comments | | |
| 0 | Construction & Demo Debris Private Export | Licensed Collector Reports under ER 92-59 | 92,883 | Not County-managed and not eligible for recycling | | |
| 1 | Yard Waste Source Reduction | Calculated w/ estimates & measurements | 13,825 | 17.5% of MSW less leakage less yard waste facility tons | | |
| 2 | Recycled via non-County Facilities | Collector, Processor, Business & Self-Hauler Rpts. | 224,973 | Filtered to avoid double-counting | | |
| 3 | County Recycling Facility Material Sales | County TS & MRF Scales, Outbound | 87,423 | Outgoing to Market from County Recycling Center | | |
| 4 | Mulch Loaded Out From TS | County Transfer Station (TS) Scale Records | 61,138 | Scaled Out As Taken to Mulch Preserve Locations | | |
| 5 | Non-Processibles Recycled** | County TS Scale Out Records | 36,298 | | | |
| 6 | Non-Processibles Land filled** | County Trans. Stat'n. & Covanta Scale Records | 21,514 | | | |
| 7 | Loaded on Rail to RRF (MSW burned) | Covanta Scales as Loaded | 469,489 | Total Tons Loaded on Rail to RRF Net of 7a | | |
| 7a | Loaded on Rail to RRF (C&D Burned) | County Transfer Station (TS) Scale Records | 66,491 | In-Bound C&D less Outbound Non-Processibles Landfilled | | |
| 7b | By-pass (Accepted Processible Land filled) | County TS Scale Out Records | - | | | |
| 8 | Refuse Disposed Out of County | Audited 6-Mo. Hauler Reports | 151,149 | Private Sector MSW Collection not delivered to CountyTS | | |
| 9 | All Incoming Leaves and Grass | Compost Facility & TS Scale Records | 72,349 | Includes 0 to Backup Composters | | |
| 10 | Composting Residue to RRF | Covanta Scale Records | - | | | |
| 11 | Ferrous recovered at RRF | Covanta Scale Records | 11,653 | | | |
| 12 | Ash Loaded to Ash Recycling Contractor | No ash recycling at this time. | - | No ash recycling at this time. | | |
| 13 | Non-Metal Outgoing from ash Recycler | No ash recycling at this time. | - | No ash recycling at this time. | | |
| 14 | Metals (Fe, Cu, Brass, Coins) | No ash recycling at this time. | - | No ash recycling at this time. | | |
| 15 | All ash not recycled | Covanta Scale Records | 153,516 | | | |

| Recycling Rate Calculations | | Numerator | Denominator | Rate | |
|-------------------------------------|--|-----------|-------------|-------|-----|
| County Recycling Rate | (1 + 2 + 3 + 4 + 9 - 10 + 11 + 13 + 14) / (CMW - 5 - 6 -7a) = | 471,361 | 1,080,346 | 43.6% | |
| County Recycling Rate "Without Ash" | (Same as above but without Stream 13) | 471,361 | 1,080,346 | 43.6% | |
| State Recycling Rate | (2 + 3 + 4 + 9 - 10 + 11 + 13 + 14) / (CMW - 1 - 5 - 6 -7a) = | 451,160 | 1,060,169 | 42.6% | *** |
| State Recycling & Reduction Rate | (2 + 3 + 4 + 9 - 10 + 11 + 13 + 14) / (CMW - 1 - 5 - 6) + 5.0% = | 451,160 | 1,060,169 | 47.6% | |
| EPA Recycling Rate | (2 + 3 + 4 + 9 - 10 + 11 + 14) / (CMW- 1 - 5 - 6 -7a) = | 451,185 | 1,060,169 | 42.6% | *** |
| Notes: | | | | | |

** Nonprocessibles are Construction & Demolition-type materials: not eligible for recycling credit, but are County-managed solid waste.

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.

^{***} For State and EPA methods, numerator and denominator exclude motor oil