

Commonwealth of Virginia

Department of Environmental Quality



Solid Waste Managed in Virginia  
During Calendar Year 2015



June 2016

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# **Solid Waste Managed in Virginia During Calendar Year 2015**

## **EXECUTIVE SUMMARY**

Section 10.1-1413.1 of the Code of Virginia requires the Department of Environmental Quality (DEQ) to prepare a report by June 30 of each year describing the amount of solid waste disposed of in the Commonwealth during the preceding calendar year. Facilities that have solid waste management permits are required to provide DEQ with information to prepare this report. As of May 4, 2016, 206 permitted facilities provided information on their activities for calendar year 2015 for this report.

Based on the facilities' reports, a total of 20,696,866.23 tons of solid waste was received at Virginia's permitted solid waste management facilities during calendar year 2015. Of this total, 15,335,670.43 tons originated in the Commonwealth and 5,361,195.80 tons originated from other jurisdictions.

Municipal solid waste (MSW) constituted 12,709,609.23 tons of the total amount of solid waste received during calendar year 2015. Of the total MSW received, 9,116,269.49 tons originated in the Commonwealth and 3,593,339.74 tons originated from other jurisdictions.

Five jurisdictions accounted for 98.31% of all waste received from out-of-state sources: Maryland (45.40%); New York (22.80%); Washington, D.C. (20.17%); North Carolina (5.64%) and New Jersey (4.30%).

During calendar year 2015, the total solid waste received from out-of-state increased by 3.40%. MSW and construction/demolition/debris (CDD) received from out-of-state decreased by 0.57% and 4.97% respectively, compared to 2014 amounts. Total out-of-state solid waste increased as a result of a 68.74% increase in out-of-state industrial waste from 238,405.06 to 402,283.02 tons. For waste originating in Virginia during the same period, the total solid waste, MSW, construction/demolition/debris (CDD), and industrial received increased by 2.40%, 3.63%, 1.04% and 16.54% respectively, compared to 2014 amounts.

Of the solid waste managed in Virginia during the year, 73.38% or 12,737,361.13 tons were landfilled on-site, 11.71% or 2,032,963.90 tons were incinerated on-site, and the rest was managed by other means (see Table 17). Of all solid waste received at Virginia facilities during the year, 61.41% was MSW, 18.76% was CDD waste, and the remainder was other types of waste (see Table 18).

Permitted solid waste management facilities reported that 9.51% of the waste they managed was diverted from disposal by recycling or mulching; 0.96% of the total waste managed was composted.

Permitted facilities are required to report on their available capacity and the expected life of the facilities based on current disposal rates. This information shows that at current rates, the remaining available landfill capacity is as follows: MSW – 23.3 years; CDD – 17.4 years; and non-captive industrial – 16.7 years. These projections do not account for population increases, changes in waste generation, or the closing of older MSW disposal units pursuant to statute.

At the option of the facility owner, Virginia Code § 10.1-1413.1 provides that the data collected may include an accounting of the facility's economic benefits to the locality where the facility is located. No facilities provided such information for calendar year 2015.

## I. Introduction

This report has been prepared in accordance with Virginia Code § 10.1-1413.1, which requires DEQ to prepare a report by June 30 of each year describing the amount of solid waste disposed of in the Commonwealth during the preceding calendar year. All permitted facilities (except for captive waste management facilities) that treat, store or dispose of solid waste are required to provide DEQ with information in their possession as is reasonably necessary for DEQ to prepare this report. The requirements for reporting are set forth in the Virginia Administrative Code, 9VAC20-81-80.

## II. Reporting Procedures

For each category of solid waste, permitted solid waste facilities in Virginia were asked to report the amount of waste that they received, amount of waste mined<sup>1</sup>, the method by which the waste was managed, the jurisdiction where the waste originated, if known, and the facility's remaining capacity. A copy of the reporting table, DEQ Form 50-25, for furnishing information to DEQ is provided as Attachment 1.

The facilities identified amounts of solid waste by each of the following categories:

- municipal solid waste (MSW)
- construction/demolition/debris (CDD)
- industrial waste
- regulated medical waste (RMW)
- vegetative and yard waste (VW/YW)
- incineration ash
- sludge other than land applied in accordance with Virginia Code 62.1-44.19:3
- tires
- white goods (e.g., refrigerators, washing machines)
- friable asbestos
- petroleum-contaminated soil (PCS)
- other waste

The facilities also reported on each of the following methods of waste management:

- recycled on-site
- composted on-site
- landfilled on-site
- incinerated on-site
- sent off-site to be recycled
- sent off-site to be treated, stored or disposed
- stored on-site at the beginning of the reporting period
- stored on-site at the end of the reporting period
- mulched
- other

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<sup>1</sup> Landfill mining is the excavation of previously landfilled materials.

Facilities submit this data online or by paper copy to the appropriate DEQ Regional Office. Facilities may log online at the Virginia Solid Waste Information and Assessment (SWIA) webpage to submit data at

<http://www.deq.state.va.us/Programs/LandProtectionRevitalization/SolidHazardousWasteRegulatoryPrograms/SolidWaste/SolidWasteInformationandAssessmentProgram.aspx>.

For the facilities that provided information, 2.9% (6 facilities) submitted paper copies and 96.2% (200 facilities) submitted the information on-line.

This report does not include the waste management activities from captive waste management facilities because they are statutorily exempt from the reporting requirements. A captive facility is one that is located on property owned or controlled by the generator of the waste. Most captive waste management facilities in Virginia are industrial landfills or regulated medical waste facilities. As a result, the reported amounts of industrial waste, regulated medical waste and sludge represent only the portion that is managed in off-site facilities. In addition, this report does not reflect tires managed under the Waste Tire Trust Fund at facilities that do not require a permit.

### III. Receipt of Assessment Reports

By regulation, facilities must submit their reportable data by March 31 each year. Facilities are required to submit a separate reporting table for each jurisdiction from which they received waste during the prior year. Information from reporting tables received on or before May 4, 2016, has been included in this report. For 2015, 206 permitted facilities reported their activities. These facilities submitted 350 separate reporting tables, representing waste received from 26 states and jurisdictions (including Virginia and Washington, D.C.). Last year, 211 facilities reported their activities for 2014.

### IV. Discussion of Reported Waste Management Activities and Capacity Information

Table 1 shows how the total solid waste received was managed by all facility types.<sup>2</sup> Table 2 lists the jurisdiction of origin of waste. Tables 3, 5, and 7 show how Municipal Solid Waste Sanitary Landfills, Construction/Demolition/Debris Landfills, and Industrial Landfills managed solid waste.<sup>3</sup>

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<sup>2</sup> When referring to information from Table 1, “waste received” refers to information from the first column, and “waste managed” refers to information from the remaining columns on Form DEQ 50-25 except “mined materials” or as noted. The amount of waste “received” for each type of waste may not match the sum of the reported amounts identified for each method of waste management. This reflects information as submitted by facilities in the reporting tables. In particular, incinerators may properly include the ash that they generate as waste that is "sent off site," and not include it as waste that is "received" at that facility.

<sup>3</sup> Some columns and rows found in Table 1 do not appear in some of these tables. Rows and columns that do not have reported data were not used by any of the reporting entities; *i.e.* MSW Landfills do not incinerate waste so the column is not included; MSW landfills do not accept regulated medical waste so the row is not included.

Tables 9 – 16 show how other facility types (Incinerators, Transfer Stations, Material Recovery Facilities (MRF), Composters, and Regulated Medical Waste) managed the waste they received and a list of submitting facilities. Table 17 shows how the total waste stream was managed and Table 18 shows the composition of the total waste stream.

Permitted facilities that treat, store or dispose of solid waste are required to report the available capacity, expected life and current disposal rates. The remaining capacity and life, and a list of submitting facilities are in Tables 4, 6, and 8.<sup>4</sup> Calculations for remaining years of landfill capacity do not account for population changes, changes in waste generation, or the future closings of older MSW disposal units under Virginia Code § 10.1-1413.2. Also, calculations do not include facilities that have not been built and are not accepting waste for which permits may have been issued.

Figure 1 compares the amount of waste received at facilities from out-of-state jurisdictions to the amount received from Virginia during 2015. Figure 2 shows a comparison of total solid waste received from 2009 through 2015 from Virginia and out-of-state sources.

## V. Reports of Economic Benefits

At the option of the facility owner, Virginia Code § 10.1-1413.1 provides that the data collected may include an accounting of the facility's economic benefits to the locality where the facility is located. This may include the value of disposal and recycling facilities provided to the locality at no cost or reduced cost, direct employment associated with the facility, and other economic benefits resulting from the facility during the preceding calendar year. No facilities provided such information for 2015.

## VI. Waste Diversion and Recycling

SWIA data is collected from solid waste permitted facilities. Facilities submit the total tonnage received and how the amounts were managed (landfilled, mined, recycled on-site, recycled off-site, mulched, incinerated, other, composted, incinerated or stored). Permitted solid waste management facilities reported that 9.51% (1,651,373.16 tons) of the total waste they managed was diverted from disposal by recycling or mulching. Facilities composted 0.96% (166,352.09 tons) of the total waste managed. Table 19 shows for each SWIA category of waste the total amount of Virginia and out-of-state waste managed, total amount diverted and how the material was managed. In addition, Tables 3, 5, 7, 9, 11, 13, and 15 show how the various facility types managed the waste types.

Most recycling occurs at facilities other than permitted waste management facilities. Local governments provide more complete information on the recycling of waste generated in Virginia. For more detailed information about recycling rates in Virginia see the Calendar Year 2014 Virginia Annual Recycling Rate Report at:

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<sup>4</sup> Facilities report available capacity in cubic yards. The available capacity is estimated using the following conversion factors: 1,000 lbs. of MSW = 1 cu. yd.; 1,200 lbs. of CDD waste = 1 cu. yd.; and 1,000 lbs. of industrial waste = 1 cu. yd. The available capacity for individual facilities may vary, depending on factors such as a facility's compaction rate and use of daily cover materials.

<http://www.deq.virginia.gov/Programs/LandProtectionRevitalization/RecyclingandLitterPreventionPrograms.aspx>. The annual recycling report for calendar year 2015 will be issued later this year.

Table 1 – Solid Waste Managed in Virginia – 2015 (in Tons) for All Reporting Facilities

Waste Type	Total Waste Received <sup>5</sup>	Mined Materials	Onsite Management of Waste						Sent Offsite to be:		Stored Onsite	
			Landfilled	Recycled Onsite <sup>6</sup>	Composted	Incinerated	Mulched	Other <sup>7</sup>	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Municipal Solid Waste	12,709,609.23	197,763.64	7,719,097.91	8,195.48	1,637.08	2,017,797.70	0	0	151,782.16	3,005,032.42	15,906.66	19,736.33
Construction/Demolition/Debris	3,882,907.85	94,280.00	2,325,533.28	588,753.90	0	0	27,114.10	55,929.51	119,245.12	712,440.06	29,543.50	177,678.30
Industrial Waste	1,268,754.67	0	1,129,619.21	26,599.70	28,211.00	15,166.20	0	3,293.63	13,604.54	52,260.39	0	0
Regulated Medical Waste	7,458.85	0	0	0	0	0	0	3,995.14	0	3,463.71	0	0
Vegetative/Yard Waste	383,804.88	0	11,306.41	1,847.80	116,507.87	0	181,261.42	44,507.95	37,073.26	11,602.27	121,472.32	97,644.72
Incineration Ash	761,833.85	0	590,506.04	0	0	0	0	162,939.89	32,208.17	494,221.79	0	0
Sludge	330,384.60	0	309,541.66	0	19,807.32	0	0	0	0	1,035.62	0	0
Tires	100,069.69	0	995.68	21,275.78	0	0	0	2415.32	69,745.37	5,698.94	1,256.56	1,194.54
White Goods	18,772.22	0	43	0	0	0	0	0	18,558.48	0	316.95	488.19
Friable Asbestos	5,145.58	0	5,121.28	0	0	0	0	0	0	28.06	5	1.24
Petroleum Contaminated Soil	432,823.11	0	338,947.36	0	0	0	0	43,102.90	49,946.00	126.85	5,100.00	5,800.00
Other Waste	795,301.70	0	306,649.30	30,712.49	188.83	0	59.18	145,098.32	273,390.22	51,048.14	9,433.34	6,960.49
<b>Total for 2015</b>	<b>20,696,866.23</b>	<b>292,043.64</b>	<b>12,737,361.13</b>	<b>677,385.15</b>	<b>166,352.09</b>	<b>2,032,963.90</b>	<b>208,434.70</b>	<b>461,282.66</b>	<b>765,553.31</b>	<b>4,336,958.24</b>	<b>183,034.33</b>	<b>309,503.81</b>
Total for 2014	20,160,344.28	281,053.28	12,188,388.61	795,983.73	149,497.95	2,169,120.93	259,683.56	475,519.73	837,394.20	4,149,295.44	234,354.16	222,015.70

<sup>5</sup> The amount of “Total Waste Received” and “Stored Onsite at the Beginning of the Year” may not precisely match the sum of the reported amounts for the remaining columns (i.e., each method of managing the waste). This difference reflects information submitted in the reporting tables. In particular, incineration ash generated by and energy recovery facility or incinerator may be listed as “sent offsite to be treated, stored, or disposed” even though it was not received as ash at that facility. The total waste managed may be greater than the waste received due to ash generated at a facility. Vegetative/Yard Waste may be composted to produce a product that is not managed as a waste.

<sup>6</sup> The majority of recycling takes place at facilities that do not require a permit from the Department and were not required to submit data for this report. Therefore, the amounts shown in this column represent a substantial underestimate of the true recycling rate in the Commonwealth. Tables 19 and 20 provide more information. The annual recycling rate report for calendar year 2015 will be issued later this year.

<sup>7</sup> “Other” methods of management may include steam sterilization or medical waste, approved use of shredded tires, and thermal treatment of petroleum contaminated soils, among others.

Table 2 – Jurisdiction of Origin of Waste Received – 2015 (in Tons)

State	MSW	CDD	Industrial	RMW	VW/YW	Incineration Ash	Sludge	Tires	White Goods	Friable Asbestos	PCS	Other Waste	Total Received
Alabama	0	0	102.43	0	0	0	0	0	0	0	0	0.15	102.58
Connecticut	5,086.26	0	541.26	0	0	0	0	0	0	0	0	25.92	5,653.44
Delaware	25,876.16	613.00	2,683.19	0	0	0	0	0	0	0	282.06	35.17	29,489.58
District of Columbia	827,335.40	121,743.20	12,269.66	0	1,021.00	0.00	5,259.55	145.09	0	910.05	112,321.04	178.83	1,081,183.82
Florida	0	0	5.22	0	0	0	0	0	0	0	0	1.31	6.53
Georgia	0	0	141.74	0	0	0	0	0	0	0	0	11.20	152.94
Illinois	0	0	19.25	0	0	0	0	0	0	0	0	48.47	67.72
Kentucky	9.57	12.81	0.00	0	0	0	0	0	0	0	0	0	22.38
Maryland	1,259,505.95	564,983.38	118,646.86	1.24	242.00	206,328.87	61,842.80	427.49	0	676.19	66,469.32	154,658.92	2,433,783.02
Massachusetts	3,932.60	0	15.94	0	0	0	0	0	0	0	0	7.29	3,955.83
Mississippi	0	0	314.08	0	0	0	0	0	0	0	0	0	314.08
Missouri	0	0	633.29	0	0	0	0	0	0	0	0	21.15	654.44
North Carolina	154,662.90	1,003.60	92,406.56	4.70	0.00	215.40	895.97	0.00	0	0	51,346.90	1,913.27	302,449.30
New Hampshire	0	0	26.13	0	0	0	0	0	0	0	0	0	26.13
New Jersey	59,812.51	0	168,941.77	0	0	0	1,402.40	0.00	0	0	65.08	349.02	230,570.78
New York	1,219,166.71	0	966.36	0	0	0	2,201.13	0.00	0	0	1.50	37.54	1,222,373.24
Ohio	5.85	0	8.85	0	0	0	0	0	0	0	0	24.17	38.87
Pennsylvania	2,352.81	993.00	3,235.06	0	0	0	0	0	0	0	5.75	359.66	6,946.28
Rhode Island	85.00	0	0.42	0	0	0	0	0	0	0	0	0	85.42
South Carolina	2,108.30	0	757.53	0	0	0	0	0	0	0	0	38.80	2,904.63
Tennessee	25,033.90	4,413.81	180.25	199.00	761.11	0.00	106.25	90.01	0	0	0	472.38	31,256.71
Texas	0	0	5.01	0	0	0	0	0	0	0	0	20.15	25.16
Vermont	0	0	183.56	0	0	0	0	0	0	0	0	0	183.56
West Virginia	8,365.82	192.36	197.25	96.00	0	0	0	0	0	0	0	96.58	8,948.01
Wisconsin	0	0	1.35	0	0	0	0	0	0	0	0	0	1.35
<b>2015 Total Other States</b>	<b>3,593,339.74</b>	<b>693,955.16</b>	<b>402,283.02</b>	<b>300.94</b>	<b>2,024.11</b>	<b>206,544.27</b>	<b>71,708.10</b>	<b>662.59</b>	<b>0</b>	<b>1,586.24</b>	<b>230,491.65</b>	<b>158,299.98</b>	<b>5,361,195.80</b>
<b>2015 Total Virginia</b>	<b>9,116,269.49</b>	<b>3,188,952.69</b>	<b>866,471.65</b>	<b>7,157.91</b>	<b>381,780.77</b>	<b>555,289.58</b>	<b>258,676.50</b>	<b>99,407.10</b>	<b>18,772.22</b>	<b>3,559.34</b>	<b>202,331.46</b>	<b>637,001.72</b>	<b>15,335,670.43</b>
<b>2015 Total All States</b>	<b>12,709,609.23</b>	<b>3,882,907.85</b>	<b>1,268,754.67</b>	<b>7,458.85</b>	<b>383,804.88</b>	<b>761,833.85</b>	<b>330,384.60</b>	<b>100,069.69</b>	<b>18,772.22</b>	<b>5,145.58</b>	<b>432,823.11</b>	<b>795,301.70</b>	<b>20,696,866.23</b>
<b>2014 Total Other States</b>	<b>3,614,056.30</b>	<b>730,244.10</b>	<b>238,405.06</b>	<b>286.41</b>	<b>1,796.71</b>	<b>181,070.50</b>	<b>149,062.47</b>	<b>431.9</b>	<b>0</b>	<b>1,669.71</b>	<b>118,582.71</b>	<b>149,164.39</b>	<b>5,184,770.26</b>
<b>2014 Total Virginia</b>	<b>8,796,552.04</b>	<b>3,156,141.51</b>	<b>743,499.56</b>	<b>6,112.54</b>	<b>425,797.57</b>	<b>641,750.73</b>	<b>270,287.97</b>	<b>89,662.54</b>	<b>16,132.18</b>	<b>2,966.37</b>	<b>361,411.12</b>	<b>465,259.90</b>	<b>14,975,574.02</b>
<b>2014 Total All States</b>	<b>12,410,608.34</b>	<b>3,886,385.61</b>	<b>981,904.62</b>	<b>6,398.95</b>	<b>427,594.28</b>	<b>822,821.23</b>	<b>419,350.44</b>	<b>90,094.44</b>	<b>16,132.18</b>	<b>4,636.08</b>	<b>479,993.83</b>	<b>614,424.29</b>	<b>20,160,344.28</b>

Table 3 – SW Managed by MSW (Sanitary) Landfills – 2015 (in Tons)

Waste Type	Total Waste Received	Mined Materials	Onsite Management of Waste					Sent Offsite to be:		Stored Onsite	
			Landfilled	Recycled Onsite	Composted	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Municipal Solid Waste	7,617,263.04	197,763.64	7,719,097.91	8,195.48	0	0	0	22,246.52	65,486.77	0	0
Construction/Demolition/Debris	645,631.37	0	542,587.87	42,432.89	0	0	38,874.51	0	22,236.10	1,611.50	1,111.50
Industrial Waste	901,181.29	0	868,904.96	26,599.70	0	0	3,293.63	0	2,383.00	0	0
Vegetative/Yard Waste	111,966.97	0	2,630.73	1,733.80	11,091.00	65,948.37	10,250.43	18,881.55	332.27	15,483.50	16,606.72
Incineration Ash	761,833.85	0	590,506.04	0	0	0	162,939.89	8,387.92	0	0	0
Sludge	329,348.98	0	309,541.66	0	19807.32	0	0	0	0	0	0
Tires	13,113.21	0	690.12	0	0.00	0	2,415.32	4,762.74	5,433.16	613.63	425.50
White Goods	11,581.09	0	43.00	0	0	0	0	11,471.50	0	156.60	223.19
Friable Asbestos	4,386.45	0	4,386.45	0	0	0	0	0	0	0	0
Petroleum Contaminated Soil	93,844.26	0	93,698.36	0	0	0	145.90	0	0	0	0
Other Waste	458,794.54	0	306,649.30	2,880.85	0	0	139,247.28	9,546.97	470.15	51.00	51.00
<b>2015 MSW Total</b>	<b>10,948,945.04</b>	<b>197,763.64</b>	<b>10,438,736.39</b>	<b>81,842.72</b>	<b>30,898.32</b>	<b>65,948.37</b>	<b>357,166.96</b>	<b>75,297.20</b>	<b>96,341.45</b>	<b>17,916.23</b>	<b>18,417.91</b>
2014 MSW Total	10,447,337.39	182,730.28	9,748,776.94	172,890.03	32,793.45	105,974.10	418,471.20	78,887.93	72,495.71	21,537.07	20,011.08

Table 4 – Capacity and Remaining Life for MSW (Sanitary) Landfills – 2015

	Facility Name	Permit Number	Capacity in Tons as of 12/2015	Landfilled in 2015 (Tons)	Expected Remaining Permitted Life (Years)	Region
1	Accomack County Northern Landfill	SWP461	73,463.50	23,625.32	2.85	TRO
2	Amherst County Landfill Permit Number 563	SWP563	399,619.90	25,136.85	19.08	BRRO
3	Atlantic Waste Disposal Inc	SWP562	47,533,179.00	1,223,596.50	98	PRO
4	Augusta Regional Landfill	SWP585	4,422,981.50	121,008.74	35.4	VRO
5	Battle Creek Landfill	SWP579	2,860,007.00	45,272.74	76	VRO
6	Bedford County - Sanitary Landfill	SWP560	193,770.00	48,463.00	5.9	BRRO
7	Bedford Town - Hylton Site	SWP569	7,000.00	101.20	2	BRRO
8	BFI Old Dominion Landfill	SWP553	1,358,000.00	883,128.60	4	PRO
9	Botetourt County Landfill	SWP582	16,029.50	185.00	53	BRRO
10	Bristol Integrated Solid Waste Management Facility	SWP498	0	0	5	SWRO
11	Bristol Integrated Solid Waste Management Facility	SWP588	2,246,134.00	180,112.76	30	SWRO
12	Brunswick Waste Management Facility LLC	SWP583	10,394,928.50	119,350.46	362	PRO
13	Carroll Grayson Galax Regional Landfill 2	SWP605	1,337,884.50	36,409.91	54.2	SWRO
14	Charles City County Landfill	SWP531	13,568,353.50	347,133.15	76	PRO
15	Covington City - Peters Mountain Landfill	SWP594	380,049.66	10,916.39	34.81	BRRO
16	Disposal and Recycling Services of Lunenburg	SWP544	692,185.00	42,606.45	12.8	BRRO
17	Fauquier County Solid Waste Management Facility	SWP149	0	0	0	NRO
18	Fauquier County Solid Waste Management Facility	SWP575	304,107.50	25,304.86	30.4	NRO
19	Franklin County - Sanitary Landfill	SWP072	76,713.50	7,419.00	3.5	BRRO
20	Franklin County - Sanitary Landfill	SWP577	1,745,859.50	38,503.00	33	BRRO
21	Frederick County Landfill	SWP529	6,451,393.00	115,584.87	30	VRO
22	Greensville County Landfill	SWP405	345,292.00	21,234.39	16.84	PRO
23	Henrico County DPU Springfield Rd Waste Management	SWP545	0	0	0	PRO
24	Interstate 95 Landfill	SWP103	3,920,051.00	292,320.89	43.6	NRO
25	King and Queen Sanitary Landfill	SWP554	9,099,152.00	315,115.93	28	PRO
26	King George Landfill & Recycling Center	SWP586	8,195,456.50	1,402,370.67	13	NRO
27	Loudoun County Sanitary Landfill	SWP001	11,374,157.50	311,137.00	88	NRO
28	Louisa County Sanitary Landfill	SWP194	0	0	0	NRO
29	Louisa County Sanitary Landfill	SWP567	417,799.80	17,981.65	27.5	NRO

Table 4 continued – Capacity and Remaining Life for MSW Landfills – 2015

	Facility Name	Permit Number	Capacity in Tons as of 12/2015	Landfilled in 2015 (Tons)	Expected Remaining Permitted Life (Years)	Region
30	Maplewood Recycling and Waste Disposal	SWP540	16,986,542.50	303,796.95	131	PRO
31	Middle Peninsula Landfill and Recycling Facility	SWP572	17,420,132.50	431,230.77	75	PRO
32	New River Resource Authority Solid Waste Facility	SWP548	746,765.50	113,635.00	29	BRRO
33	Nottoway County of-Sanitary Landfill-Blackstone	SWP304	312,519.60	16,370.87	16.5	BRRO
34	Orange County Sanitary Landfill	SWP566	1,727,267.50	20,932.00	36.2	NRO
35	Pittsylvania Co - Sanitary Landfill	SWP571	369,039.34	40,976.56	20	BRRO
36	Prince Edward County Sanitary Landfill	SWP584	9,220.04	17,965.69	1.5	BRRO
37	Prince William County Sanitary Landfill	SWP029	6,360,000.00	431,605.00	15	NRO
38	Rappahannock Regional Solid Waste Management Board	SWP589	6,374,531.00	117,166.75	48	NRO
39	Region 2000 Regional Landfill - Livestock Rd	SWP610	3,162,619.00	205,356.67	11.3	BRRO
40	Region 2000 Services Authority - Concord Turnpike	SWP558	0	0	0	BRRO
41	Rockbridge County Landfill	SWP075	141,400.77	40,678.95	1	VRO
42	Rockingham County of - Sanitary Landfill	SWP062	452,540.50	118,796.99	4.1	VRO
43	Shenandoah County Landfill - Edinburg	SWP469	1,980,000.00	44,138.00	32.9	VRO
44	Shoosmith Sanitary Landfill	SWP587	21,650,000.00	1,317,642.00	33	PRO
45	Smith Gap Regional Landfill	SWP555	5,181,434.50	151,050.96	39.71	BRRO
46	Spotsylvania County Livingston Sanitary Landfill	SWP547	778,250.50	134,221.57	7.6	NRO
47	SPSA - Regional Landfill	SWP417	2,370,200.50	402,037.87	10	TRO
48	SRPSA - Butcher Creek Sanitary Landfill	SWP598	2,690,157.92	66,938.07	31	BRRO
49	Tazewell County Landfill	SWP564	767,410.50	57,621.02	12	SWRO
50	Tri City Regional Disposal and Recycling Services	SWP228	1,337,800.00	228,788.46	10.5	PRO
51	USA Waste of Virginia Landfills - Bethel	SWP580	23,062,391.00	464,339.10	90	TRO
52	Virginia Beach City - Landfill No 2	SWP398	1,821,000.00	13,247.00	137	TRO
53	Wise County Sanitary Landfill	SWP513	546,557.01	46,180.81	12	SWRO
	<b>MSW Landfill Total for 2015</b>		<b>243,661,348.02</b>	<b>10,438,736.39</b>	<b>23.3</b>	
	MSW Landfill Total for 2014		265,428,062.35	9,748,776.94	27.2	

Table 5 – SW Managed by CDD Landfills – 2015

Waste Type	Total Waste Received	Mined Materials	Onsite Management of Waste					Sent Offsite to be:		Stored Onsite	
			Landfilled	Recycled Onsite	Composted	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Construction/Demolition/Debris	2,126,297.98	94,280.00	1,737,269.72	317,033.20	0	1,500.00	8,005.00	18,699.22	543.84	5,000.00	142,500.00
Petroleum Contaminated Soil	245,249.00	0	245,249.00	0	0	0	0	0	0	0	0
Vegetative/Yard Waste	40,372.69	0	8,675.69	0	836.00	31,174.50	0	0	0	429.42	115.92
Other Waste	17,346.00	0	0	19,024.00	0.00	0.00	0	0	0	5,478.50	3,611.50
Tires	354.79	0	305.56	0	0	0	0	41.20	3.03	0	5.00
Industrial Waste	89.57	0	89.57	0	0	0	0	0	0	0	0
<b>2015 CDD Total</b>	<b>2,429,710.03</b>	<b>94,280.00</b>	<b>1,991,589.54</b>	<b>336,057.20</b>	<b>836.00</b>	<b>32,674.50</b>	<b>8,005.00</b>	<b>18,740.42</b>	<b>546.87</b>	<b>10,907.92</b>	<b>146,232.42</b>
2014 CDD Total	2,415,755.38	98,323.00	2,054,501.36	400,681.30	1,222.50	31,221.85	5,239.00	23,601.09	13.00	13,310.00	10,907.92

Table 6 – Capacity and Remaining Life for CDD Landfills – 2015

	Facility Name	Permit Number	Capacity in Tons as of 12/2015	Landfilled in 2015 (Tons)	Expected Remaining Permitted Life	Region
1	623 Landfill	SWP506	11,977,200.00	368,645.00	32	PRO
2	Ashcake Road Landfill, Inc.	SWP574	446,382.60	56,100.00	7.5	PRO
3	Centerville Turnpike CDD Landfill	SWP603	3,537,258.00	292,145.24	15	TRO
4	Country South LLC - CDD Landfill	SWP581	1,441,083.45	4,088.69	248.8	BRRO
5	Frederick County Landfill	SWP591	2,291,770.20	36,416.05	33	VRO
6	Higgerson Buchanan Incorporated	SWP493	27,000.00	2,217.60	2	TRO
7	Hilltop Sand and Gravel Company Incorporated	SWP326	0	0	0	NRO
8	Lorton Construction Landfill	SWP331	2,338,200.00	991,633.00	3	NRO
9	Portsmouth City - Craney Island Landfill	SWP041	2,031,861.00	10,591.20	66	TRO
10	Potomac CDD Landfill	SWP441	786,000.00	20,611.10	13	NRO
11	Rainwater Landfill	SWP327	335,994.00	33,722.40	13	NRO
12	Taylor Road Landfill	SWP270	9,000,000.00	91,682.00	62	PRO
13	The East End Landfill	SWP524	273,327.00	82,987.26	3.79	PRO
14	Thomas Brothers Debris Landfill	SWP445	70,200.00	750.00	0	BRRO
	<b>CDD Landfill Total for 2015</b>		<b>34,556,276.25</b>	<b>1,991,589.54</b>	<b>17.4</b>	
	CDD Landfill Total for 2014		35,689,919.10	2,054,501.36	17.4	

Table 7 – SW Managed by Non-captive Industrial Landfills – 2015 (in Tons)

Waste Type	Total Waste Received	Onsite Management of Waste			Sent Offsite to be:	Stored Onsite	
		Landfilled	Recycled Onsite	Mulched	Recycled	Beginning of Year	End of Year
Construction/Demolition/Debris	49,730.89	45,675.69	3,284.40	0	1,470.80	1,500.00	800.00
Industrial Waste	260,624.68	260,624.68	0	0	0	0	0
Vegetative/Yard Waste	3,771.00	0	114	3,657.00	0	0	0
Tires	59.35	0	0	0	16.35	30.00	73.00
Friable Asbestos	734.83	734.83	0	0	0	0	0
<b>2015 Industrial Landfill Total</b>	<b>314,920.75</b>	<b>307,035.20</b>	<b>3,398.40</b>	<b>3,657.00</b>	<b>1,487.15</b>	<b>1,530.00</b>	<b>873.00</b>
2014 Industrial Landfill Total	408,175.44	385,110.31	7,836.12	8,131.00	7,128.01	1,560.00	1,530.00

Table 8 – Capacity and Remaining Life - Non-captive Industrial Landfills – 2015

	Facility Name	Permit Number	Capacity in Tons as of 12/2015	Landfilled in 2015 (Tons)	Expected Remaining Permitted Life	Region
1	First Piedmont Corp - Ringgold	SWP065	2,336,467.25	167,253.70	15	BRRO
2	International Paper LF No 2 - Isle of Wight	SWP504	1,851,750.00	89,334.50	70	TRO
3	John C Holland Enterprises Inc	SWP280	926,610.25	50,447.00	12	TRO
	<b>Industrial Landfill Total for 2015</b>		5,114,827.50	307,035.20	16.7	
	Industrial Landfill Total for 2014		3,300,755.56	385,110.31	8.6	

Table 9 – SW Managed by Waste to Energy Incinerators – 2015

Waste Type	Total Waste Received	Incinerated	Sent Offsite to be:		Stored Onsite	
			Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Municipal Solid Waste	2,096,593.30	2,017,797.70	19,513.00	55,641.00	15,883.40	19,525.00
Industrial Waste	15,166.20	15,166.20	0	0	0	0
Other Waste	723.00	0	10,283.92	0	0	0
Tires	448.40	0	448.40	0	0	0
White Goods	182.00	0	182.00	0	0	0
Incineration Ash	0	0	23,820.25	494,221.79	0	0
<b>2015 Incinerator Total</b>	<b>2,113,112.90</b>	<b>2,032,963.90</b>	<b>54,247.57</b>	<b>549,862.79</b>	<b>15,883.40</b>	<b>19,525.00</b>
2014 Incinerator Total	2,261,349.12	2,169,102.93	57,065.29	614,367.94	22,642.70	15,883.40

Table 10 – List of Reporting Incinerators – 2015

Permit Number	Facility	Region
PBR173	Central Intelligence Agency - George Bush Cntr	NRO
PBR197	US Department of Defense - Pentagon	NRO
PBR500	Wheelabrator Portsmouth Inc - Waste to Energy Facility	TRO
PBR545	Covanta Fairfax Incorporated	NRO
PBR551	Covanta Alexandria Arlington Incorporated	NRO
SWP297	Hampton City - NASA Steam Plant	TRO

Table 11 – SW Managed by Transfer Stations – 2015

Waste Type	Total Waste Received	Onsite Management of Waste				Sent Offsite to be:		Stored Onsite	
		Recycled Onsite	Composted	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Municipal Solid Waste	2,330,913.75	0	10.00	0	0	2,549.49	2,328,330.74	13.26	36.33
Construction/Demolition/Debris	98,655.42	1,491.17	0	100.00	0	5,538.88	91,515.38	0	0
Vegetative/Yard Waste	76,510.57	0	0	62,511.05	2,853	10,826.71	114.00	2,381.12	2,587.41
Industrial Waste	44,003.95	0	0	0	0	0	44,003.95	0	0
Other Waste	18,716.72	0	0	59.18	5,755.04	4,122.55	7,577.56	0.84	1,203.22
White Goods	7,004.13	0	0	0	0	6,899.98	0	160.35	265.00
Tires	2,910.85	0	0	0	0	2,748.99	154.75	6.96	14.07
Sludge	1,035.62	0	0	0	0	0	1,035.62	0	0
Petroleum Contaminated Soil	54.52	0	0	0	0	0	54.52	0	0
Friable Asbestos	24.30	0	0	0	0	0	28.06	5.00	1.24
<b>2015 TS Total</b>	<b>2,579,829.83</b>	<b>1,491.17</b>	<b>10.00</b>	<b>62,670.23</b>	<b>8,607.56</b>	<b>32,686.60</b>	<b>2,472,814.58</b>	<b>2,567.53</b>	<b>4,107.27</b>
2014 TS Total	2,561,748.98	25.60	10.00	55,213.17	9,390.98	53,165.60	2,443,320.38	2,444.28	3,067.53

Table 12 – List of Reporting Transfer Stations – 2015

Permit Number	Facility	Region
PBR001	Russell County of - Solid Waste Transfer Station	SWRO
PBR002	Cedar Bluff Transfer Station	SWRO
PBR003	Washington County Solid Waste Landfill	SWRO
PBR004	Boissevain Transfer Station	SWRO
PBR013	VPPSA - YWCF - York County	TRO
PBR021	Virginia Peninsula Public Services Authority - JCC	TRO
PBR022	Virginia Peninsula Public Services Authority York County	TRO
PBR031	Bedford County - Transfer Station	BRRO
PBR032	Patrick Co - Solid Waste Transfer Station	BRRO
PBR033	Warren County - Transfer Station	VRO
PBR041	Smyth County of - Transfer Station	SWRO
PBR044	Wythe/Bland Solid Waste Transfer Station	SWRO
PBR045	Bath County of – Transfer Station	VRO
PBR049	Dickenson County of – Waste Transfer Station	SWRO
PBR050	Floyd County – Transfer Station	BRRO
PBR051	Nelson County – Transfer Station	VRO
PBR069	Westmoreland County of – Montross Transfer Station	PRO
PBR070	Lee County of - Solid Waste Transfer Station	SWRO
PBR090	Accomack County – Bobtown Southern Landfill	TRO
PBR091	Waste Management of Virginia – Manassas	NRO
PBR103	Alleghany County – Transfer Station	BRRO
PBR106	Buchanan County – Transfer Station	SWRO
PBR112	Accomack County – Northern Landfill #2	TRO
PBR121	Bristol Solid Waste Management Facility	SWRO
PBR132	Ivy Transfer Station	VRO
PBR136	LCM Corp - Transfer Station	BRRO
PBR140	Laurel Valley Center- Culpeper County	NRO
PBR149	Montgomery Regional Solid Waste Authority Transfer Station	BRRO
PBR153	Environmental Options Inc	BRRO

Table 12 continued – List of Reporting Transfer Stations – 2015

<b>Permit Number</b>	<b>Facility</b>	<b>Region</b>
PBR154	Madison County Landfill and Transfer Station	NRO
PBR160	Richmond City of Hopkins Road Transfer Station	PRO
PBR189	Hanover County - 301 Solid Waste Facility	PRO
PBR190	SPSA - Oceana Transfer Station	TRO
PBR191	SPSA - Landstown Transfer	TRO
PBR192	SPSA - Franklin Transfer Station	TRO
PBR193	SPSA - Isle Of Wight Transfer Station	TRO
PBR194	SPSA - Chesapeake Transfer	TRO
PBR195	SPSA - Norfolk Transfer Station	TRO
PBR196	First Piedmont Corp - Ringgold	BRRO
PBR501	Salem City - New Transfer Station	BRRO
PBR507	Port Tobacco at Weanack	PRO
PBR508	Craig County - Transfer Station	BRRO
PBR509	Greene County Transfer Station	VRO
PBR513	City of Harrisonburg - SW Management Facility	VRO
PBR518	SPSA - Regional Landfill	TRO
PBR520	First Piedmont Corp - Martinsville TS	BRRO
PBR524	Wise County Blackwood Transfer Station	SWRO
PBR527	Harborton Solid Waste Receiving Facility	TRO
PBR529	Bedford Town - Hylton Site	BRRO
PBR539	Halifax County Transfer Station Facility	BRRO
PBR540	Northampton County - Transfer Station	TRO
PBR548	Scott County Transfer Station	SWRO
PBR555	Interstate 66 - Solid Waste Management Facility	NRO
PBR591	Henrico County DPU Springfield Rd Waste Management	PRO
SWP484	SPSA - Boykins Transfer	TRO
SWP539	SPSA - Ivor Transfer Station	TRO
SWP546	Roanoke Valley Resource Authority Transfer Station	BRRO

Table 13 – SW Managed by Material, Recovery Facilities (MRF) – 2015

Waste Type	Total Waste Received	Onsite Management of Waste			Sent Offsite to be:		Stored Onsite	
		Recycled Onsite	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
Construction/Demolition/Debris	962,592.19	224,512.23	25,514.10	9,050.00	93,536.22	598,144.74	21,432.00	33,266.80
Municipal Solid Waste	663,193.34	0	0	0	107,473.15	555,555.19	10.00	175.00
Other Waste	299,436.62	8,807.64	0	0	249,436.78	43,000.43	3,903.00	2,094.77
Petroleum Contaminated Soil	93,675.33	0.00	0	42,957.00	49,946.00	72.33	5,100.00	5,800.00
Tires	83,183.09	21,275.78	0	0	61,727.69	108.00	605.97	676.97
Industrial Waste	19,477.98	0	0	0	13,604.54	5,873.44	0	0
Vegetative/Yard Waste	7,773.84	0	0	0	7,365.00	423.84	59.00	44.00
White Goods	5.00	0	0	0	5.00	0	0	0
<b>2015 MRF Total</b>	<b>2,129,337.39</b>	<b>254,595.65</b>	<b>25,514.10</b>	<b>52,007.00</b>	<b>583,094.38</b>	<b>1,203,177.97</b>	<b>31,109.97</b>	<b>42,057.54</b>
2014 MRF Total	1,931,213.05	214,550.68	31,611.06	32,110.41	613,618.62	1,037,909.24	60,203.89	61,616.49

Table 14 – List of Reporting MRFs – 2015

Permit Number	Facility	Region
PBR006	Leesburg Transfer Station	NRO
PBR039	Virginia Recycling Corporation	PRO
PBR041	Smyth County Transfer Station	SWRO
PBR046	Purgo Incorporated	PRO
PBR052	Aqua Clean Environmental of Virginia	PRO
PBR072	SPSA – Regional Landfill	TRO
PBR077	Waste Industries LLC	TRO
PBR093	Waste Management of Virginia – Sterling	NRO
PBR099	BFI Fluvanna Transcyclery	VRO
PBR101	Potomac Landfill Incorporated CDD MRF	NRO
PBR102	LFF Recycling Incorporated	NRO
PBR104	Blue Ridge Disposal Incorporated	BRRO
PBR105	BFI Waste Services LLC dba Allied Waste Recyclery	BRRO
PBR107	BFI Fredericksburg Recyclery	NRO
PBR111	Waste Management of Virginia – Merrifield	NRO
PBR116	Bristol Integrated Solid Waste Management Facility	SWRO
PBR121	Bristol Integrated Solid Waste Management Facility	SWRO
PBR135	US Navy – Norfolk Naval Shipyard	TRO
PBR154	Madison County Landfill and Transfer Station	NRO
PBR155	Clearfield MMG Inc - Suffolk	TRO
PBR180	MXI Environmental Services LLC	SWRO
PBR504	Bay Disposal Incorporated MRF	TRO
PBR506	Waterway Marine Terminal	TRO
PBR510	Clearfield MMG Inc - Chesapeake	TRO
PBR513	City of Harrisonburg – SW Management Facility	VRO
PBR516	County Waste, LLC	PRO
PBR521	CFP Limited Liability Corporation	NRO

Table 14 continued – List of Reporting MRFs – 2015

Permit Number	Facility	Region
PBR522	United Disposal Incorporated	TRO
PBR524	Wise County Blackwood Transfer Station	SWRO
PBR528	Fauquier County CDD MRF	NRO
PBR531	Zion Crossroads Recycling Center	VRO
PBR533	Spivey Disposal LLC	TRO
PBR536	Broad Run Recycling	NRO
PBR537	J and E Recycling Materials Recovery Facility	NRO
PBR544	AMRF Incorporated	NRO
PBR546	S. B. Cox Recycling Center MRF	PRO
PBR547	Emanuel Tire of Virginia	BRRO
PBR549	Green Earth Materials Recovery Facility	VRO
PBR556	Green Zone Investments, LLC	PRO
PBR558	Recycling and Disposal Solutions of Virginia (RDS)	TRO
PBR559	Montgomery Regional Solid Waste Authority	BRRO
PBR560	C3 Holdings Limited Liability Company	NRO
PBR561	Zion Crossroads Recycling Center	VRO
PBR563	W and N Material Recovery Facility	NRO
PBR565	Resource Management Group LLC	BRRO
PBR567	B&H Sales Corp	TRO
PBR568	TFC Recycling	TRO
PBR571	County Waste, LLC	PRO
PBR572	S. B. Cox Yorktown Recycling Center	TRO
PBR588	Bay Disposal & Recycling	TRO
PBR590	Tri City Regional Disposal and Recycling Services	PRO
PBR592	Fiberight Limited Liability Company	PRO
PBR594	Recycling and Disposal Solutions of VA - Roanoke	BRRO
PBR595	Emanuel Tire of Virginia - Waverly	PRO
PBR596	Military Highway Recycling Center MRF	TRO
PBR598	Bay Disposal Inc Norfolk MRF	TRO
PBR599	West End Resource Recovery Facility	PRO
PBR601	Joseph Harris Tire Disposal	PRO
PBR603	Emanuel Tire of Virginia Incorporated	PRO

Table 15 – Summary Table of SW Managed by Facility Type – 2015

Facility Type	Total Waste Received	Mined Materials	Onsite Management of Waste						Sent Offsite to be:		Stored Onsite	
			Landfilled	Recycled Onsite	Composted	Incinerated	Mulched	Other	Recycled Offsite	Treated, Stored, Disposed	Beginning of Year	End of Year
<b>MSW Landfill Total</b>	10,948,945.04	197,763.64	10,438,736.39	81,842.72	30,898.32	0	65,948.37	357,166.96	75,297.20	96,341.45	17,916.23	18,417.91
<b>CDD Landfill Total</b>	2,429,710.03	94,280.00	1,991,589.54	336,057.20	836.00	0	32,674.50	8,005.00	18,740.42	546.87	10,907.92	146,232.42
<b>Non-captive Industrial Landfill Total</b>	314,920.75	0	307,035.20	3,398.40	0	0	3,657.00	0	1,487.15	0	1,530.00	873.00
<b>Waste to Energy Incinerator Total</b>	2,113,112.90	0	0	0	0	2,032,963.90	0	0	54,247.57	549,862.79	15,883.40	19,525.00
<b>Transfer Station Total</b>	2,579,829.83	0	0	1,491.17	10.00	0	62,670.23	8,607.56	32,686.60	2,472,814.58	2,567.53	4,107.27
<b>Material Recovery Facility Total</b>	2,129,337.39	0	0	254,595.65	0	0	25,514.10	52,007.00	583,094.38	1,203,177.97	31,109.97	42,057.54
<b>Compost Total</b>	173,455.45	0	0	0	134,607.77	0	17,970.50	31,405.00	0	10,750.88	103,119.28	78,290.67
<b>RMW Total</b>	7,554.85	0	0	0	0	0	0	4,091.14	0	3,463.71	0	0
<b>Total All Facilities</b>	20,696,866.23	292,043.64	12,737,361.13	677,385.15	166,352.09	2,032,963.90	208,434.70	461,282.66	765,553.31	4,336,958.24	183,034.33	309,503.81

Table 16 – List of Reporting Compost and RMW Facilities – 2015

<b>Permit Number</b>	<b>Compost Facility</b>	<b>Region</b>
PBR009	623 Landfill	PRO
PBR010	Danville City of - Yard Waste Composting Facility	BRRO
PBR013	VPPSA -Compost Facility	TRO
PBR030	Prince William County - Balls Ford Yard Waste	NRO
PBR096	Newport News City - Yard Waste Compost Fac No 1	TRO
PBR125	Middle Peninsula Landfill and Recycling Facility	PRO
PBR141	Loudoun Composting	NRO
PBR175	DOC Powhatan Correctional Center	PRO
PBR181	Watkins Nurseries Incorporated	PRO
PBR512	Hanover County - 301 Solid Waste Facility	PRO
PBR525	Bristol Integrated Solid Waste Management Facility	SWRO
PBR553	Poplar Manor Enterprises LLC	BRRO
PBR589	Black Bear Composting	VRO
PBR597	Commonwealth Compost and Recycling Services Inc	SWRO
SWP601	Royal Oak Farm Solid Waste Composting Facility	BRRO

<b>Permit Number</b>	<b>RMW Facility</b>	<b>Region</b>
PBR143	Virginia Health Care Waste Transportation Inc	BRRO
PBR206	Arlington County - Department of Human Services	NRO
PBR517	Stericycle Chesterfield RMW Transfer Station	PRO
PBR606	Daniels Sharpsmart RMW Transfer Station	PRO
PBR614	NEIE RMW Transfer Station	PRO

Table 17 – Methods of Solid Waste Management – 2015 (in Tons)

<b>Methods of Solid Waste Management</b>		
	<b>Amount Managed</b>	<b>Percentage</b>
Landfilled On-Site	12,737,361.13	73.38%
Incinerated On-Site	2,032,963.90	11.71%
Sent Off-Site to be Recycled	765,553.31	4.41%
Recycled On-Site	677,385.15	3.90%
Other	461,282.66	2.66%
Mulched	208,434.70	1.20%
Stored On-Site End of Year	309,503.81	1.78%
Composted On-Site	166,352.09	0.96%
<b>Sum for all Waste Management</b>	<b>17,358,836.75</b>	<b>100.00%</b>

**Note:** The basis for determining these percentages is the sum for all methods of waste management (recycled, composted, landfilled, etc.) in Table 1, with the exception of: (1) waste stored on-site at the beginning of the year (which is similar to waste received) and (2) waste that was sent off-site for treatment, storage or disposal (i.e., waste that was simply transferred to another facility for ultimate management). Accounting for those two exceptions, the basis for these percentages is 17,358,836.75 tons. Facilities that mine landfill materials report how much material was mined and how it was managed.

Table 18 – Composition of the Solid Waste Stream – 2015 (in Tons)

<b>Composition of the Solid Waste Stream</b>		
	<b>Amount</b>	<b>Percentage</b>
Municipal Solid Waste	12,709,609.23	61.41%
Construction/Demolition/Debris	3,882,907.85	18.76%
Industrial Waste	1,268,754.67	6.13%
Other Waste	795,301.70	3.84%
Incineration Ash	761,833.85	3.68%
Petroleum Contaminated Soil	432,823.11	2.09%
Vegetative/Yard Waste	383,804.88	1.85%
Sludge	330,384.60	1.60%
Tires	100,069.69	0.48%
White Goods	18,772.22	0.09%
Regulated Medical Waste	7,458.85	0.04%
Friable Asbestos	5,145.58	0.02%
<b>Total</b>	<b>20,696,866.23</b>	

Table 19 – Tons Recycled or Diverted from Landfills – 2015

Annual Reporting Period 2015 for Virginia jurisdictions <sup>8</sup>						
Waste Type	Total Waste Received	Tons Recycled or Diverted	Recycled Onsite	Recycled Offsite	Composted	Mulched
Municipal Solid Waste	9,116,269.49	161,614.72	8,195.48	151,782.16	1,637.08	0
Construction/Demolition/Debris	3,188,952.69	650,483.05	505,145.49	118,283.47	0	27,054.10
Industrial Waste	866,471.65	56,359.24	26,599.70	13,604.54	16,155.00	0
Other Waste	637,001.72	300,169.97	30,712.49	269,209.48	188.83	59.18
Incineration Ash	555,289.58	23,820.25	0.00	23,820.25	0	0
Vegetative/Yard Waste	381,780.77	334,666.24	1,847.80	37,073.26	115,746.76	179,998.42
Sludge	258,676.50	19,807.32	0	0	19,807.32	0
Petroleum Contaminated Soil	202,331.46	49,946.00	0	49,946.00	0	0
Tires	99,407.10	90,573.39	21,275.78	69,297.61	0	0
White Goods	18,772.22	18,558.48	0	18,558.48	0	0
<b>Total</b>	<b>15,324,953.18</b>	<b>1,705,998.66</b>	<b>593,776.74</b>	<b>751,575.24</b>	<b>151,897.90</b>	<b>207,111.70</b>

Annual Reporting Period 2015 for Out-of-state jurisdictions						
Waste Type	Total Waste Received	Tons Recycled or Diverted	Recycled Onsite	Recycled Offsite	Composted	Mulched
Construction/Demolition/Debris	693,955.16	84,630.06	83,608.41	961.65	0	60
Incineration Ash	206,544.27	8,387.92	0	8,387.92	0	0
Industrial Waste	402,283.02	12,056.00	0	0	12,056.00	0
Other Waste	158,299.98	4,180.74	0	4,180.74	0	0
Tires	662.59	447.76	0	447.76	0	0
Vegetative/Yard Waste	2,024.11	2,024.11	0	0	761.11	1,263.00
<b>Total</b>	<b>5,058,695.11</b>	<b>111,726.59</b>	<b>83,608.41</b>	<b>13,978.07</b>	<b>12,817.11</b>	<b>1,323.00</b>

<sup>8</sup> Data in Table 19 is summarized from SWIA reports.

Figure 1 – Total Solid Waste Received from 2009 through 2015

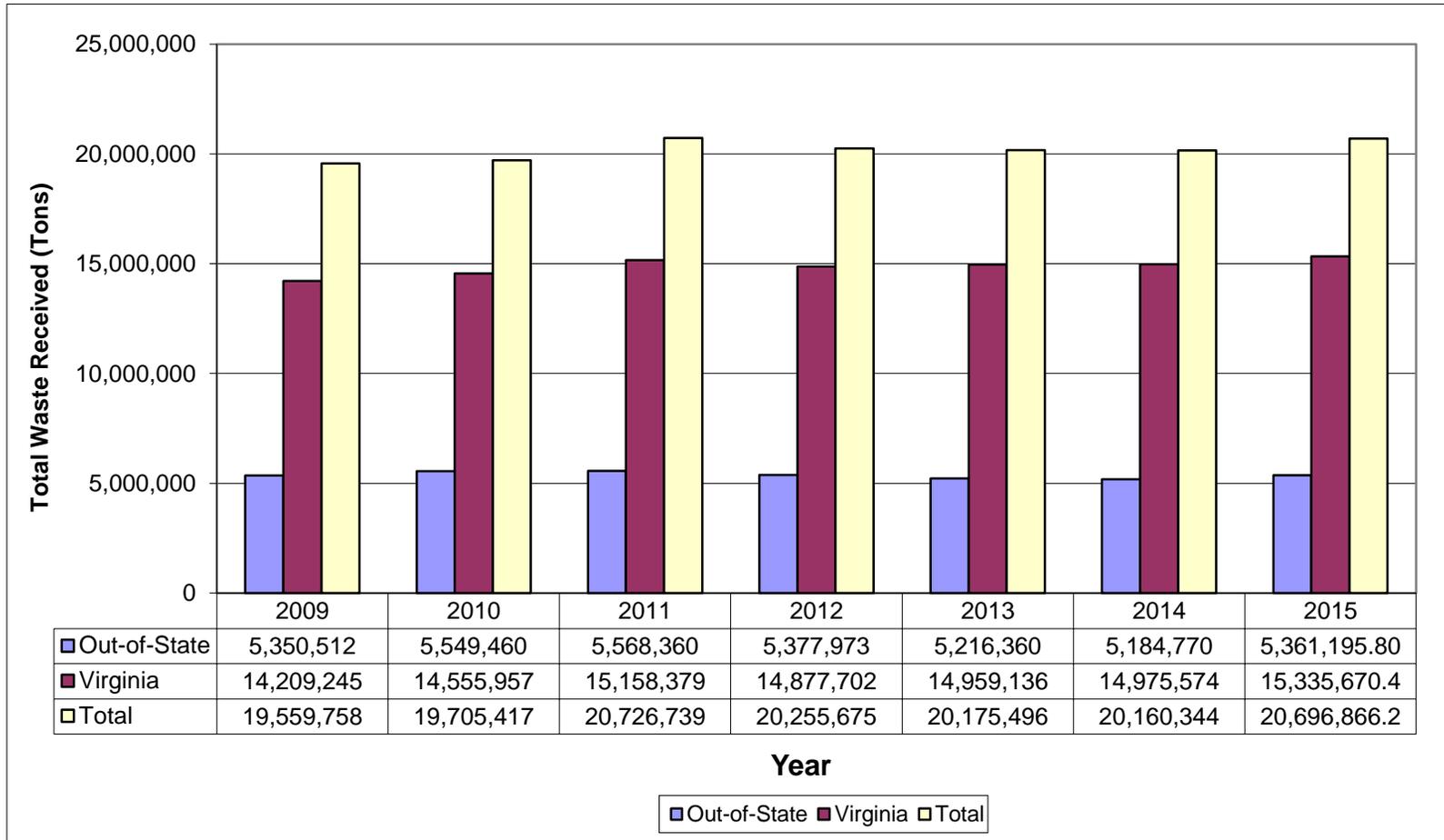
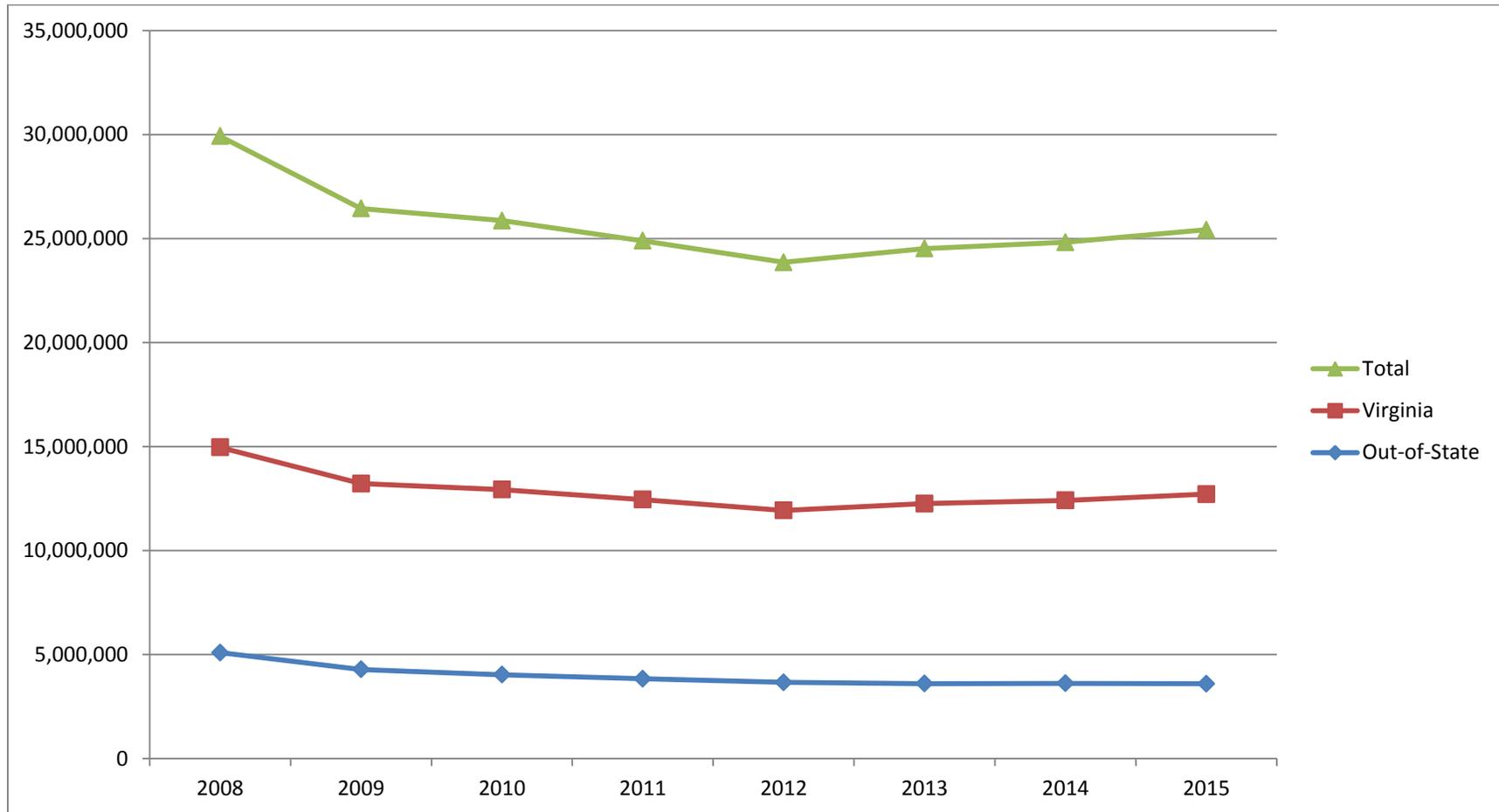


Figure 2 – Municipal Solid Waste Received from 2008 through 2015



# Attachment 1 – Reporting Table

## SOLID WASTE INFORMATION AND ASSESSMENT PROGRAM REPORTING TABLE - FORM DEQ 50-25

1	Facility Name				
2	Permit Number	3 Date Submitted to DEQ		4 Annual Reporting Period	
5	Preparer's First Name	Middle Initial	Last Name		6 Telephone
7	Preparer's E-mail Address				
8	Has there been a change to the Annual Fee Billing Contact, Address or Telephone Number? <input type="checkbox"/> Yes <input type="checkbox"/> No				
	Contact First Name		Last Name		Contact Phone
	Address			E-Mail	
	City		State	Zip Code	
9A and 9B Landfills only		9A	Remaining Permitted Capacity	Cubic Yards	9B Expected Remaining Permitted Life
10	Does facility use active scales? <input type="checkbox"/> Yes or <input type="checkbox"/> No		Landfills not using active scales - enter the total amount landfilled in cubic yards (sum of all jurisdictions)		
11	Originating Jurisdiction		11A Statement of Economic Benefits submitted? <input type="checkbox"/> Yes or <input type="checkbox"/> No		
12	Facilities landfilling VA incineration ash		Use the supplemental form to provide the facility from which ash was received and the amount.		

**Waste amounts measured in :  Tons or  Cubic Yards**

Waste Type	Total Amount of Waste Received (a)	Mined Materials (b)	On-site Management of Waste						Sent Off-site to be: (i)		Stored On-site (j)	
			Landfilled (c)	Recycled (d)	Composted (e)	Incinerated (f)	Mulched (g)	Other (h)	Recycled	Treated, Stored, Disposed	Beginning of Reporting Period	End of Reporting Period
13	Municipal Solid Waste											
14	Construction/ Demolition/Debris											
15	Industrial Waste											
16	Regulated Medical Waste											
17	Vegetative/Yard Waste											
18	Incineration Ash											
19	Sludge											
20	Tires											
21	White Goods											
22	Friable Asbestos											
23	Petroleum Contaminated Soil											
24	Other Wastes (specify)											
25	Total											

**Facility Comments**

Complete a separate form for each jurisdiction.

See the instructions for completing Form DEQ 50-25. A separate form is provided for the optional Statement of Economic Benefits.

Revised 11/3/2014

