

## APPENDIX K Waste Reduction and Recycling Rates and Demonstration of Achieving Goal 2

Table K-1 Annual Rate of Waste Reduction: Residential/Commercial Solid Waste

Year	Population	Recycled	Disposed	Total Generated	Waste Reduction & Recycling Rate (%)	Per Capita Waste Reduction & Recycling Rate (ppd)
<b>2018</b>	<b>50,469</b>	<b>10,515</b>	<b>42,784</b>	<b>53,299</b>	<b>20%</b>	<b>1.14</b>
2019	50,447	8,719	45,410	54,129	16%	.9
2020	50,422	8,894	45,366	54,260	16%	1.00
2021	50,107	9,605	45,083	54,698	18%	1.05
2022	49,793	9,899	44,800	54,699	18%	1.09
2023	49,478	10,709	44,517	55,226	19%	1.19
2024	49,163	10,833	44,233	55,066	20%	1.21
2025	48,848	10,955	41,454	52,409	21%	1.23
2026	48,575	11,083	41,222	52,305	21%	1.25
2027	48,301	11,051	40,989	52,040	21%	1.25
2028	48,028	11,022	40,758	51,780	21%	1.26
2029	47,754	10,992	40,525	51,517	21%	1.26
2030	47,481	10,963	40,294	51,257	21%	1.27
2031	47,207	10,934	40,061	50,995	21%	1.27
2032	46,934	10,905	39,829	50,734	21%	1.27
2033	46,661	10,876	39,598	50,474	22%	1.28
2034	46,387	10,847	39,365	50,212	22%	1.28
2035	46,114	10,817	39,133	49,950	22%	1.29
2036	45,996	10,805	39,033	49,838	22%	1.29

Sources of Information: District population from Appendix C-2, Table C-2 Population Projections; Residential/commercial recycling projections Appendix E, Disposed from Appendix G-2, Table G-2 Generation Projections (Disposal Column),

Sample Calculations: Total Generated is the sum of Recycled and Disposal. For the first year of the planning period 2022 the calculation is 9,899 + 44,800 =54,699

Percent recycling calculation: Recycling ÷ Generation = Percent recycled. For 2022 the calculation is 9,899/ 54,837 = 18%

Pounds per person per day (ppd): Tons recycled x 2000 = pounds recycled divided by population = pounds per person per year divided by 365 equals pounds per person per day. For 2022 the calculation is ((9,047 x 2000)/49,793)/365) = 1.09

Assumptions: The assumptions upon which the calculations of this table are based are those that are stated after Tables C-2, E-8, and G-2.

**Table K-2: Annual Rate of Waste Reduction: Industrial Solid Waste**

Year	Waste Reduced and Recycled (tons)	Waste Disposed (tons)	Non-Recyclable Waste	Waste Generated (tons)	Waste Reduction and Recycling Rate (percent)
<b>2018</b>	<b>14,696</b>	<b>2,719</b>		<b>17,415</b>	<b>84.38%</b>
2019	14,200	1,535		15,735	90.24%
2020	12,780	1,689		14,469	88.43%
2021	14,200	1,857		16,057	88.78%
2022	14,700	2,043		16,743	87.80%
2023	14,700	2,247		16,947	86.74%
2024	14,700	2,472		17,172	85.60%
2025	14,700	2,719		17,419	84.39%
2026	14,700	2,991		17,691	83.09%
2027	14,700	3,290		17,990	81.71%
2028	14,700	3,619		18,319	80.24%
2029	14,700	3,619		18,319	80.24%
2030	14,700	3,619		18,319	80.24%
2031	14,700	3,619		18,319	80.24%
2032	14,700	3,619		18,319	80.24%
2033	14,700	3,619		18,319	80.24%
2034	14,700	3,619		18,319	80.24%
2035	14,700	3,619		18,319	80.24%
2036	14,700	3,619		18,319	80.24%

Source, Disposed from Appendix G-2, Table G-2 Industrial Section, Recycle tons column and Disposal Column

Sample Calculations: Total Generated is the sum of Recycled and Disposal. For the first year of the planning period 2022 the calculation is 14,700 + 2,043 = 16,749

Percent recycling calculation: Recycling ÷ Generation = Percent recycled. For 2022 the calculation is 14,700 ÷ 16,743 = .878 expressed as a percent 87.8%

Assumptions: Assumptions are stated after APPENDIX F-6, Tables F-7 Industrial Projections, and APPENDIX D-6, Table D-6 Projections for Waste to be Disposed.

To the best of the District’s knowledge there is no non-recyclable waste generated by industries in any large quantity that would keep the District from meeting industrial recycling goals.

**Table K-3 Annual Rate of Waste Reduction: Total Solid Waste**

Year	Waste Reduced and Recycled (tons)	Waste Disposed (tons)	Waste Generated (tons)	Waste Reduction and Recycling Rate (percent)
<b>2018</b>	<b>25,211</b>	<b>45,504</b>	<b>70,714</b>	<b>35.65%</b>
2019	22,919	46,945	68,864	32.81%
2020	21,674	47,055	68,669	31.56%
2021	23,805	46,940	70,745	33.64%
2022	24,599	46,843	71,442	34.44%
2023	25,409	46,764	72,173	35.21%
2024	25,533	46,705	72,238	35.35%
2025	25,655	44,173	69,829	36.74%
2026	25,783	44,213	69,996	36.83%
2027	25,751	44,279	70,030	36.77%
2028	25,722	47,758	73,480	35.01%
2029	25,692	51,927	77,619	33.10%
2030	25,663	51,696	77,359	33.17%
2031	25,634	51,463	77,097	33.25%
2032	25,605	51,231	76,836	33.32%
2033	25,576	51,000	76,576	33.40%
2034	25,547	50,767	76,314	33.48%
2035	25,517	50,535	76,052	33.55%
2036	25,505	50,435	75,940	33.59%

Table K-3 combines the data from Tables K-1 and K2 by adding the residential/commercial Recycling to industrial recycling to get an overall amount of material from the District that is recycled and composted. The amount of disposal from K-1 and K2 is added together to get a total combined disposal.

Note that exempt or excluded waste is not included in this table. In the past the amount of excluded waste has been an insignificant part of waste generation and therefore is not included in the calculations in this Plan.

The District did not achieve Goal 2, a 25% residential/ commercial recycling rate in the reference year, 2018. The District will meet the access goal, Goal 1 throughout the Planning Period. By focusing on increasing residential and commercial participation in the available opportunities to recycle, by decreasing contamination in the residential recycling programs, and by improving the collection of commercial and institutional recycling data, the District will increase the percent of recycling. The projections in this plan are conservative. It is hoped that the amount of residential/commercial recycling will exceed projections to achieve a recycling rate of 25% or more.