

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 (ppd)
2018	50,469	10,515	42,784	53,299	19.73%	1.14
2019	50,603	8,922	37,956	46,878	19.03%	0.97
2020	50,422	9,350	37,820	47,171	19.82%	1.02
2021	50,107	11,837	37,584	49,421	23.95%	1.29
2022	49,793	11,757	37,348	49,106	23.94%	1.29
2023	49,478	11,825	37,112	48,937	24.16%	1.31
2024	49,163	11,930	36,876	48,806	24.44%	1.33
2025	48,848	12,032	36,640	48,672	24.72%	1.35
2026	48,575	12,143	36,435	48,578	25.00%	1.37
2027	48,301	12,075	36,229	48,304	25.00%	1.37
2028	48,028	12,007	36,025	48,032	25.00%	1.37
2029	47,754	11,939	35,819	47,758	25.00%	1.37
2030	47,481	11,872	35,614	47,486	25.00%	1.37
2031	47,207	11,804	35,409	47,212	25.00%	1.37
2032	46,934	11,736	35,204	46,940	25.00%	1.37
2033	46,661	11,668	34,999	46,667	25.00%	1.37
2034	46,387	11,600	34,794	46,394	25.00%	1.37
2035	46,114	11,532	34,589	46,121	25.00%	1.37
2036	45,996	11,503	34,500	46,004	25.00%	1.37

Sources of Information: District population from Appendix C-2, Table C-2 Population Projections; Recycled from Appendix E-14, Table E-8 Residential/Commercial Recovery Projections by Program Source, 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 $11,757 + 37,348 = 49,106$ (difference of 1 due to rounding)

Percent recycling calculation: $\text{Recycling} \div \text{Generation} = \text{Percent recycled}$. For 2022 the calculation is $11,757 \div 49,106 = .2394$ expressed as a percent 23.95%

Pounds per person per day (ppd): $\text{Tons recycled} \times 2000 = \text{pounds recycled}$ divided by population = pounds per person per year divided by 365 equals pounds per person per day. For 2022 the calculation is $((11,757 \times 2000)/49,793)/365 = 1.29$.

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)
2018	14,696	2,719	None identified	17,415	84.38%
2019	14,200	2,883		17,083	83.13%
2020	12,780	3,056		15,836	80.70%
2021	14,200	3,239		17,439	81.43%
2022	14,700	3,433		18,133	81.07%
2023	14,700	3,639		18,339	80.16%
2024	14,700	3,858		18,558	79.21%
2025	14,700	4,089		18,789	78.24%
2026	14,700	4,334		19,034	77.23%
2027	14,700	4,595		19,295	76.19%
2028	14,700	4,870		19,570	75.11%
2029	14,700	4,870		19,570	75.11%
2030	14,700	4,870		19,570	75.11%
2031	14,700	4,870		19,570	75.11%
2032	14,700	4,870		19,570	75.11%
2033	14,700	4,870		19,570	75.11%
2034	14,700	4,870		19,570	75.11%
2035	14,700	4,870		19,570	75.11%
2036	14,700	4,870	19,570	75.11%	

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 + 3,433 = 18,133

Percent recycling calculation: Recycling ÷ Generation = Percent recycled. For 2022 the calculation is 14,700 ÷ 18,133 = .8107 expressed as a percent 81.07%

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)
2018	25,211	45,504	70,714	35.65%
2019	23,123	40,839	63,961	36.15%
2020	22,131	40,876	63,007	35.12%
2021	26,037	40,823	66,860	38.94%
2022	26,457	40,782	67,239	39.35%
2023	26,525	40,751	67,277	39.43%
2024	26,630	40,734	67,364	39.53%
2025	26,732	40,729	67,461	39.63%
2026	26,843	40,769	67,612	39.70%
2027	26,775	40,824	67,599	39.61%
2028	26,707	40,895	67,602	39.51%
2029	26,639	40,689	67,329	39.57%
2030	26,572	40,484	67,056	39.63%
2031	26,504	40,279	66,783	39.69%
2032	26,436	40,074	66,510	39.75%
2033	26,368	39,869	66,238	39.81%
2034	26,300	39,664	65,964	39.87%
2035	26,232	39,459	65,692	39.93%
2036	26,203	39,371	65,574	39.96%

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 reach the 25% goal early in the new planning period.