

Solid Waste Management Program Overview

Mission To protect the public interest through solid waste management planning and regulatory oversight of the County's refuse ordinances by providing efficient and effective collection, recycling, and disposal of solid waste for customers in an environmentally responsible manner.

Focus The Solid Waste Management Program (SWMP) is responsible for the management and/or oversight and long-range planning for all refuse collection, recycling, and disposal operations within the County. Operations include a County-owned and operated refuse transfer station, two closed municipal solid waste landfills, a regional ashfill operated by the County, two recycling and disposal facilities, and equipment and facilities for refuse collection, disposal, and recycling operations.

Fund 40130, Leaf Collection, provides curbside vacuum leaf collection within Fairfax County's approved leaf collection districts. In FY 2022, approximately 25,000 homes are included within these districts. Revenue for Fund 40130 is derived from a levy charged to homeowners within leaf collection districts. The levy for leaf collection remains at \$0.012 per \$100 of assessed real estate value in FY 2022.

Fund 40140, Refuse Collection and Recycling Operations, provides for collection of waste and recycling from approximately 43,100 individual households within Fairfax County's approved sanitary districts. Revenue to support residential collection operations is derived from the refuse collection fee. In FY 2021, as a response to the impact of pandemic, the proposed collection rate increase from \$385 to \$400 was deferred and the rate was instead reduced to \$370 per unit to provide a credit for services for reduced service levels due to COVID-19 in FY 2020. This has weighed on the fund's operations and impacted the fund's capacity to provide sustainable services. In FY 2022, the annual collection rate of \$370 will increase to \$400 per household.

This fund also supports the collection of waste and recycling from properties owned and occupied by Fairfax County, known as the County Agency Routes (CARs) program. Revenue for this service is collected from County agencies to which the service is provided. The rate for CARs will increase by \$0.50 from \$5.50 per cubic yard to \$6.00 per cubic yard in FY 2022. The increase of these rates was deferred in FY 2021 due to the pandemic. Since the fund balance is low, a rate increase is required in FY 2022 to ensure the fees collected are more in line with the expenditures, especially when factoring in the replacement of aged equipment and the increased operational and personnel costs, so as to ensure the sustainability and quality of services provision.

The Recycling Program is also funded through Fund 40140 and Fund 40150, Refuse Disposal (described below), and it is responsible for:

- Overall management of solid waste reduction and recycling programs;
- Plans for future recycling programs and waste reduction systems; and
- Ensuring that disposal capacity remains available for wastes by reducing the amount of waste sent for disposal through recycling programs that divert reusable or recyclable items from the waste stream to avoid disposal.

As part of the County's recycling program, the Fairfax County SWMP operates two manned locations, one at the I-66 Transfer Station and the other at the I-95 Landfill Complex.

Fund 40150, Refuse Disposal, funds operations at the I-66 Transfer Station, which receives refuse collected in the northern and western portions of the County, and transports the refuse to Covanta

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Fairfax, Inc. in Lorton, Virginia. When the Covanta facility is unavailable due to maintenance and other operational issues, wastes are transported to the Prince William County landfill or other available landfills outside of Fairfax County. Leaves and grass are transported to compost facilities for processing in Prince William and Loudoun Counties. Other programs conducted at the Transfer Station include operation of the Household Hazardous Waste program, electronics recycling, used motor oil, antifreeze and cooking oil recycling, latex paint recycling, automotive battery recycling, and scrap metal/appliance recycling. In FY 2022, Fund 40150 will move to a single rate of \$66 per ton for all disposal and eliminate the discounted contractual disposal rate. This action is intended to simplify the rate structure and billing process as part of the conversion to a new billing system which went live in April 2021.

Fund 40170, I-95 Refuse Disposal, funds the operation of the I-95 Landfill Complex. This location includes the municipal solid waste (MSW) landfill that was designed and constructed by the District of Columbia and operated from 1970 to 1995 until it was closed in December 1995. Since that time, the facility has accepted only ash generated by the combustion of waste. The ash landfill has been constructed in four phases and meets federal and state standards for the construction of new landfills, which require a double liner with a leachate collection system for the prevention of groundwater degradation. These operations are funded by a Refuse Disposal fee, which is \$27.50 per ton in FY 2022 to fund the ash disposal operation. This rate is set in advance by a formal multi-year contract with Covanta. Costs associated with operation and maintenance of environmental control equipment related to the closed portion of the landfill are anticipated to increase in future years. This is attributed to landfill gas collection, groundwater monitoring and remediation, stormwater management and leachate control. These activities ensure compliance with the facility's state-issued solid waste permit (SWP103) and stormwater permit (VAR051076), and applicable environmental regulations administered by the Virginia Department of Environmental Quality (VDEQ).

Specific descriptions, discussions, and funding requirements for each fund of the Solid Waste Funds can be found on the pages following the SWMP Overview.

Solid Waste Operations Fee Structure¹

| | Fund 40130, Leaf Collection | Fund 40140, Refuse Collection and Recycling Operations | Fund 40150, Refuse Disposal | Fund 40170, I-95 Refuse Disposal |
|------------------------|---|---|---|--|
| FY 2022 Fee | \$0.012/\$100 Assessed Property Value | \$400 Curbside | \$66/Ton, System Fee ² Recycling and Disposal Center | \$27.50/Ton |
| FY 2021 Fee | \$0.012/\$100 Assessed Property Value | \$370 Curbside | \$68/Ton, System Fee \$64/Ton, Contract/Discount Rate, Recycling and Disposal Center | \$27.50/Ton |
| Who Pays | Leaf District Residents | Sanitary District Residents | Private Collectors, Residents and County Agencies | Fund 40150 and Participating Jurisdictions |

¹ There are numerous special rates that have been negotiated and implemented as needed, which are not reflected in the structure above. Examples include varying miscellaneous charges for yard debris (brush, grass, and leaves), tires, and others.

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² In FY 2022, Fund 40150 will move to a single rate of \$66 per ton for all disposal and eliminate the discounted contractual disposal rate. This action is intended to simplify the rate structure and billing process as part of the conversion to a new billing system which went live in April 2021.

Pandemic Response and Impact

For the Solid Waste Management Program, major challenges include employee safety precautions and efforts to maintain social distancing. Standard operating procedures (SOPs) were revised to include enhanced personal protection equipment (PPE) practices. In FY 2022, the SWMP will continue focusing on employee safety procedures including virtual meetings, temperature screening, frequent disinfection of surfaces and vehicles, providing additional cleaning supplies and PPE for employees. The SWMP will also continue staggering shift schedules to maintain social distancing. Additionally, the SWMP Outreach team has limited in-person activities and tours in an effort to promote public safety. The action plans by the SWMP will be continuously reevaluated and revised based on the evolving situation with the pandemic.

Performance Measurement Results

The program exceeded the state-mandated recycling rate by 22 percent and the program exceeded the targeted service quality measure of 95 percent of its customers rating refuse service as good or better by 0.60 percent. The actual number of tons delivered to the Covanta facility was greater than the FY 2020 projection due to the efforts to rebuild the Covanta facility as a result of the fire on February 2, 2017. The upgraded facility allows for Covanta to have a more efficient way to process waste from SWMP and produce more energy that can be sold to the local utility company.

| Indicator | FY 2018 Actual | FY 2019 Actual | FY 2020 Estimate | FY 2020 Actual | FY 2021 Estimate | FY 2022 Estimate |
|---|----------------|----------------|------------------|----------------|------------------|------------------|
| Output: | | | | | | |
| Total tons of sanitary district refuse and recyclables | 71,391 | 74,273 | 71,300 | 67,432 | 72,832 | 68,000 |
| Total County tons recycled | 494,734 | 494,553 | 500,000 | 422,286 | 500,000 | 422,286 |
| Ton of material delivered to Covanta | 359,466 | 615,894 | 650,000 | 671,008 | 650,000 | 650,000 |
| Efficiency: | | | | | | |
| Collection Cost per home collected in the sanitary districts | \$412.55 | \$429.56 | \$416.51 | \$418.74 | \$435.51 | \$432.24 |
| Cost per ton of material disposed (contract rate) ¹ | \$60 | \$62 | \$64 | NA | NA | NA |
| Cost per ton for disposal operations ¹ | NA | NA | NA | \$64.57 | \$65.09 | \$66.83 |
| Service Quality: | | | | | | |
| Percent of customers or citizens rating refuse services as good or better | 98.60% | 98.75% | 95.00% | 95.60% | 95.00% | 95.00% |
| Did the division meet the mandated recycling rate? | Yes | Yes | Yes | Yes | Yes | Yes |
| Outcome: | | | | | | |
| Customer satisfaction deviation from 95 percent target | 3.60% | 3.75% | 0.00% | 0.60% | 0.00% | 0.00% |
| Total County recycling rate | 49.00% | 49.50% | 50.00% | 47.00% | 50.00% | 50.00% |

¹ The cost per ton reflects the cost charged to customers. In the FY 2022 budget cycle, to demonstrate a more accurate estimate of the program's efficiency, the measure reporting cost per ton of material disposed (contract rate) is replaced with cost per ton for disposal operations.

A complete list of performance measures can be viewed at <https://www.fairfaxcounty.gov/budget/fy-2022-adopted-performance-measures-pm>