



Rappahannock Regional Solid Waste Management Board

FY 2023 ANNUAL FINANCIAL & OPERATIONAL REPORT

For the year ended June 30, 2023



Serving the City of Fredericksburg and Stafford County





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Mission and Vision

R-Board Mission

The mission of the Rappahannock Regional Solid Waste Management Board (R-Board) is to provide professional, courteous, and intelligent service and solutions to the waste disposal needs of citizens residing in Stafford County and the City of Fredericksburg.

R-Board Vision

The R-Board's vision is to operate the best landfill in Virginia. Being the best landfill includes environmentally sound solid waste management policies and having an active Reduce, Reuse, and Recycling program, all coupled with outstanding customer service. The R-Board intends to continually strive to be a leader in the waste management industry and to set an example for others to emulate.



Virginia Environmental Excellence Program

The Rappahannock Regional Solid Waste Management Board (R-Board) has earned its Exemplary Environmental Enterprise (E3) recertification in the Virginia Environmental Excellence Program (VEEP) for the Regional Landfill. The Virginia Department of Environmental Quality (VA DEQ) administers the E3 certification and only certifies facilities that have a good compliance history, a fully implemented environmental management system, and a pollution prevention program in place with demonstrated performance. The Regional Landfill has been certified in environmental excellence since 2004.

The R-Board is committed to continuous improvement of the Regional Landfill. The R-Board requires annual training and monthly safety training for employees and encourages employees to seek additional training to ensure safety and environmental responsibility. The R-Board is dedicated to environmental excellence and extending the life of the landfill through recycling opportunities for residents. In the past year, the R-Board implemented new programs and initiatives to improve sustainability, including a Compost-a-Thon event, plastic bag recycling, textile recycling, food scrap composting, and rechargeable battery recycling.





Operational Overview

New Equipment

In FY23 the R-Board was able to purchase/lease the following equipment: (1) 963 track loader. The track loader will improve landfill operations.

Renovations

The administrative office was renovated to include a conference room in FY23. The puppy room was renovated by removing the puppy cages, adding new flooring, painting, adding more outlets, and new blinds. The new conference room has allowed space to hold our monthly safety meetings, staff meetings, and luncheons for staff.





Regulatory Overview

The R-Board maintains several permits with the VADEQ and federal regulatory agencies. These Permits are the Solid Waste Permit (SWP) that covers groundwater, landfill gas, and leachate monitoring programs; Title V Air permit that covers emissions per the Clean Air Act; Virginia Pollutant Discharge Elimination System (VPDES) that covers stormwater; and the Virginia Pollution Abatement (VPA) permit, which covers composting operations.

Employee Achievements and Accolades

The R-Board continues to encourage and support employees as they seek certifications and continuing education to improve their skills and knowledge. The following are courses and training staff has participated in:

- 2023 Unauthorized Waste Training (Cornerstone)
- VA DEQ Erosion and Sediment Control Program Administrator (Certifications received)
- Mental Health First Aid Training (Certifications received)
- Virginia Department of Transportation Flagger Certification
- Confined Space Certification
- OSHA 10 Certification
- First Aid/CPR/AED Training

The R-Board appreciates and recognizes the following employees for significant milestones of their years of service with the R-Board and Stafford County:

- Susan Carpenter – 10 years
- Liam Christensen – 3 years
- Jeramy Ellis – 3 years
- Julius Peters – 3 years
- Hope Mikelson – 5 years
- Barbara Miller – 5 years
- Mike Wolfrey – 5 years

The R-Board recognizes and welcomes the following employees hired in FY2023:

- Triniti Bennett
- Jason Bishop
- Collin Burt
- Eddie Carico
- Jeff Gassaway
- Richard Orty
- Nathan Peebles
- Charles Smith
- Jessee Stanley
- Ronnell Threat



Operational and Financial Performance

Residential Usage Fee

The R-Board is supported by user fees and does not receive tax funding. Residential user fee revenues are used to assist with costs to manage residential use areas. The R-Board manages two such facilities, Eskimo Hill Road, and Belman Road drop-off sites. Residential user fee options are as follows:

- One-time pass \$5
- Coupon book \$40 (10 passes that never expire)
- Annual pass \$120 (passes are effective from January 1st to December 31st)
- Oversize residential loads
 - 8' trailer or less \$5 or covered by annual pass
 - Trailers greater than 8' up to 14' \$10
 - Trailers greater than 14" or cargo vehicles \$20

Oversize residential user fees were adjusted January 2022 to make the fee disparity more equitable. Due to the adjusted fee structure a decrease in revenue was seen in FY23. Overall residential user fees decreased from FY22 \$839,310 to FY23 \$ \$791,885.

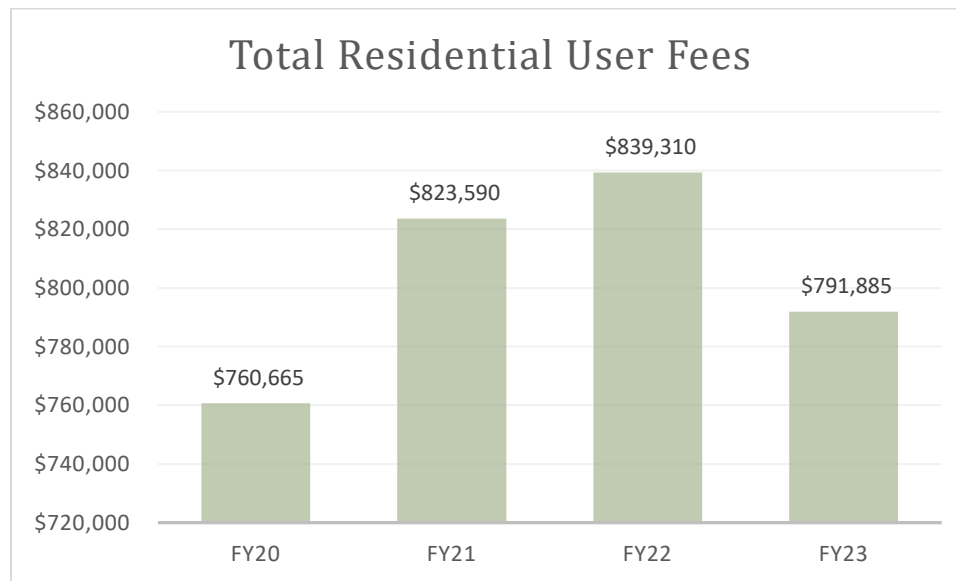


Figure 1 Residential User Fees



Sales opportunities for annual passes or coupon books are available at the Eskimo Hill Landfill, Stafford Treasurer, City of Fredericksburg Treasurer, and Online. The following charts show the revenue by point of sale.

The landfill residential drop-off site on Eskimo Hill Road carries 84% of all sales.

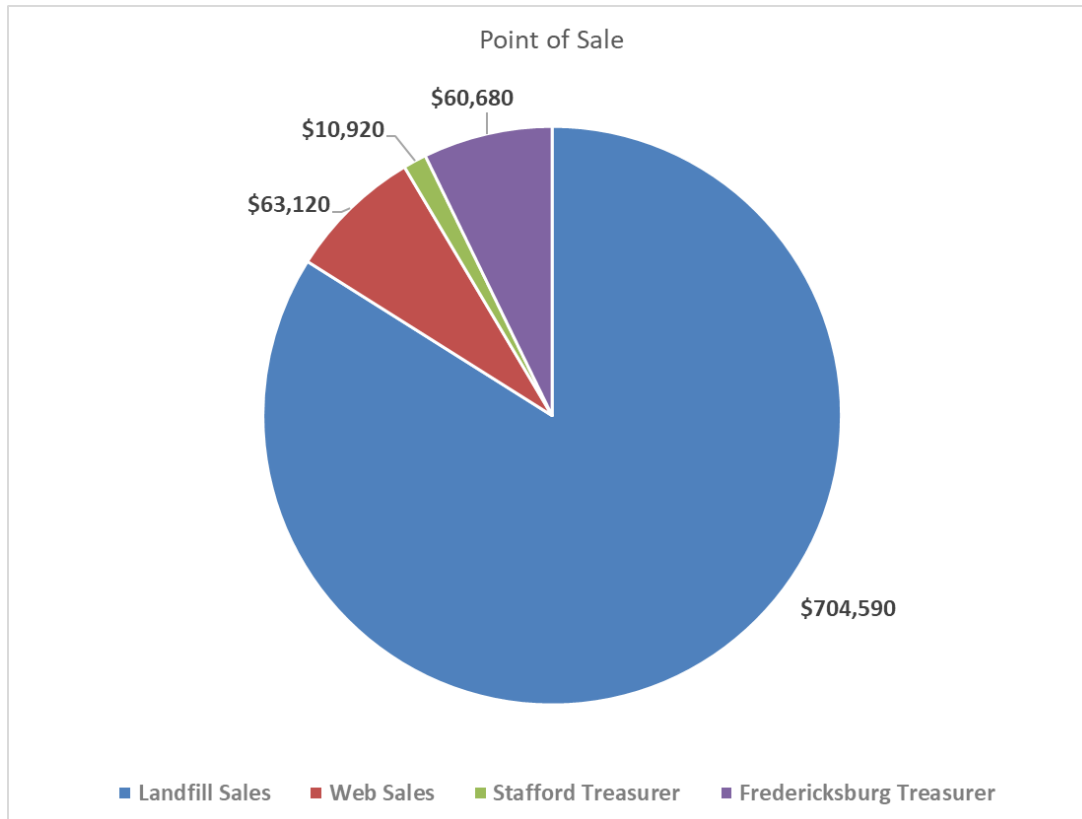


Figure 2 Point of Sale Revenue

The most purchased user fee type is the one-time pass as depicted below. Annual passes generate the most revenue.

| Type | Transactions | Revenue |
|----------------|--------------|-----------|
| Daily Pass | 35,429 | \$177,145 |
| 8 ft to 14 ft | 4,388 | \$43,880 |
| Cargo & 14 ft+ | 3,895 | \$77,900 |
| Coupon Books | 5,238 | \$209,520 |
| Annual Pass | 2,362 | \$283,440 |

Table 1 User Fee Transactions & Revenue



Financial Summary (Unaudited)

| | | Adopted FY23 | Actuals | Inc/Dec |
|---------------------------|--|---------------------|----------------------|----------------|
| Commercial | | \$ 7,300,000 | \$ 8,347,847 | 14% |
| Grants | | \$ 25,000 | \$ 56,128 | 125% |
| Insurance Recovery | | \$ - | \$ 3,854 | 100% |
| Municipal Services | | | | |
| City of Fredericksburg | | \$ 270,000 | \$ 288,307 | 7% |
| Stafford | | \$ 40,000 | \$ 40,000 | 0% |
| Recycling | | \$ 90,000 | \$ 128,504 | 43% |
| Residential | | \$ 800,000 | \$ 820,155 | 3% |
| Sludge/Utilities | | | | |
| Stafford | | \$ 340,000 | \$ 323,809 | -5% |
| Fredericksburg | | \$ 120,000 | \$ 130,500 | 9% |
| SBA Lease | | \$ 15,000 | \$ 23,111 | 54% |
| Ameresco Lease | | \$ 40,000 | \$ 8,982 | -78% |
| Miscellaneous Sources | | \$ 5,000 | \$ 15,479 | 210% |
| TOTAL | | \$ 9,055,000 | \$ 10,223,869 | 13% |

Table 2 Financial Summary (Unaudited)



End Year Weight and Material Summary

| CATEGORY | FY2023 Y-T-D <u>Weight</u> | FY2022 Y-T-D <u>Weight</u> | Difference <u>%</u> |
|-------------------------|-------------------------------|-------------------------------|------------------------|
| Billable | | | |
| Commercial Waste | 67919 | 66125 | 3% |
| Residential Waste | 56329 | 55143 | 2% |
| Fredericksburg | 6757 | 6288 | 7% |
| Eskimo Hill | 18970 | 17501 | 8% |
| Belman Road | 1315 | 1495 | -12% |
| Debris Waste | 91179 | 79694 | 14% |
| Dirt | 2455 | 866 | 183% |
| Sludge (city) | 4646 | 4963 | -6% |
| Sludge (county) | 11559 | 11585 | 0% |
| Yard waste | 1453 | 2082 | -30% |
| BILLABLE TONNAGE | 262582 | 245742 | 7% |
| Non-Billable | | | |
| Litter/Cleanups | 98 | 42 | 137% |
| Recycling | 5109 | 8338 | -39% |
| TOTAL TONNAGE | 267789 | 254122 | 5% |

Table 3 End Year Weight and Material Analysis



Portfolio Composition

Portfolio Composition

| Security Type | | % of Portfolio |
|------------------------------|---------------------|----------------|
| U.S. Agencies and Securities | \$ 6,205,008 | 67.67% |
| Corporate Notes and Bonds | \$ 645,703 | 7.04% |
| Certificates of Deposit | \$ 1,357,187 | 14.80% |
| Commercial Paper | \$ 952,312 | 10.39% |
| Money Market Mutual Funds | \$ 9,556 | 0.10% |
| Total | \$ 9,169,767 | 100.00% |

Table 4 Portfolio Composition

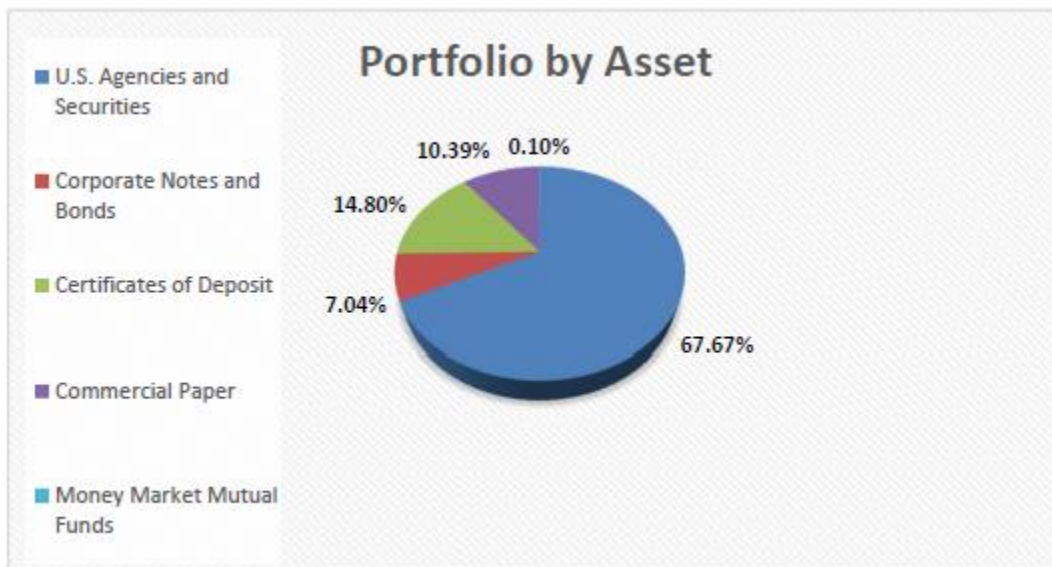


Figure 3 Portfolio by Asset



Recycling and Diversion

The following locations accept residential recyclables:

City of Fredericksburg

Belman Road Recycling Center

1200 Belman Road

Hugh Mercer Elementary School

2100 Cowan Boulevard

Walker Grant Middle School

1 Learning Lane

Stafford County

Regional Landfill

489 Eskimo Hill Road

Rowser Building

1739 Patriot Highway

Gayle Middle School

100 Panther Drive



Eskimo Hill Residential Drop-off Site



Unmanned Mobile Drop-off Site



A primary goal of the R-Board is to divert materials from landfill in the most efficient manner. Recyclable materials are received from the mobile and residential drop-off sites as well as the City of Fredericksburg's Public Works curbside collections. Recycling for residents is free. The City of Fredericksburg pays \$50 per ton.

- Single Stream Recyclables include:
 - Cardboard
 - Newsprint
 - Mix paper
 - Steel and aluminum cans
 - Plastic #1 and #2 bottles, tubs, jugs, and jars

The R-Board also recycles the following materials:

- Automotive and equipment batteries*
- Motor oil (limit 5 gallons per resident per day)*
- Antifreeze (limit 5 gallons per resident per day)*
- Fluorescent light bulbs (Regional Landfill only, no bulbs longer than 4')
- Cooking oil*
- Appliances*
- Scrap metal*
- Small engines (lawn mowers, weed whackers, etc.)*
- Electronic waste (no TVs or CRT monitors)*
- Plastic bags*
- Textiles*
- Fruit and vegetable scrap collection*

* *Eskimo Hill and Belman Road Residential drop-off sites only.*

*** *Yard Waste is mulched however the high cost to operate this program requires residents to pay user fees.*

The R-Board began fruit and vegetable scrap collection, textile, and plastic bag recycling in FY23. These new recycling programs allow City of Fredericksburg and Stafford County residents to divert more waste from the landfill.



The recycling market was volatile in FY23. However, toward the end of FY23 revenue per ton began to increase. Mixed paper, cardboard, and HDPE plastic continued to be in high demand with the market price per/ton gradually increasing. PET plastic and steel can prices continued to fluctuate.

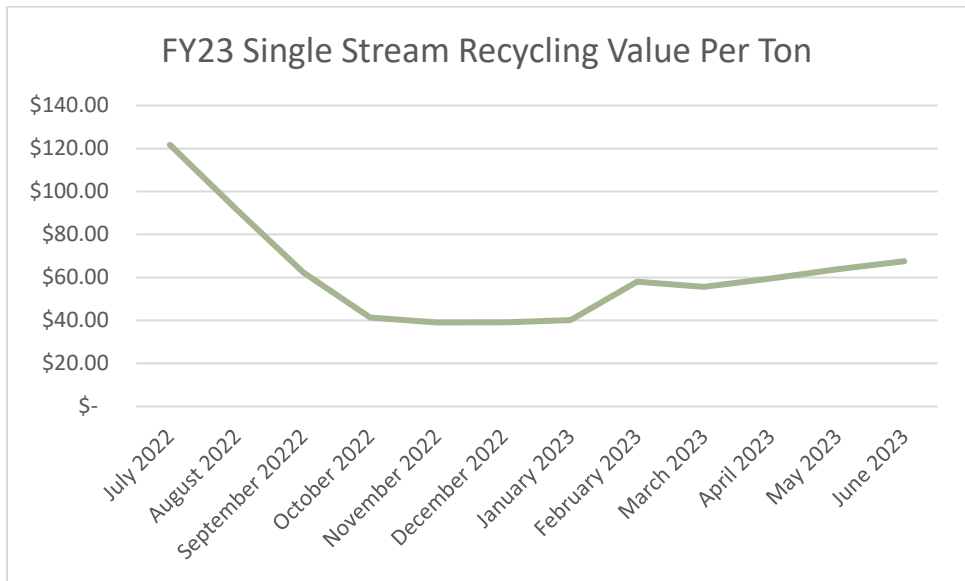


Figure 4 Single Stream Recycling Value Per Ton

Recycling Audit

The Commonwealth of Virginia mandates that localities must prove a 25% recycling rate. The R-Board conducts a voluntary recycling audit of commercial entities within its jurisdiction. The voluntary reporting of this recycling activity source is essential to meeting the state percentage requirements. For the calendar year 2022, a 32.5% recycling rate was submitted to the Department of Environmental Quality. At the time of this report, the State has not formally approved the report submission.

Electronic Waste Collection

The Aquia Harbour Lions Club took over the electronics recycling program in May 2023. The total electronics recycling for FY23 is 40,897 pounds of E-waste. During FY23, the electronics recycling program expanded to the Belman Road Convenience Center.



Litter Control

Goals

- Coordinate efforts from available resources: paid staff, volunteers, partnerships, and organizations
- Focus roadside litter pickup efforts on high-traffic areas in the City of Fredericksburg and Stafford County
- Reduce illegal dumping through litter crew enforcement
- Provide timely responses to citizen calls on particular areas of concern

Programs

- Rappahannock Regional Jail (RRJ) Inmate Roadside Litter
- Rappahannock Regional Jail (AAP) Adult Probationer Program
- Rappahannock Area Office on Youth (OOY)
- Community Cleanups
- Volunteer Cleanups
- Social Media & Website Messaging

R-Board staff monitors roadways for the City of Fredericksburg and Stafford County and collects litter by using volunteers and paid labor. In FY2023, 216,053 pounds of litter were removed from our communities.

- 442 Volunteers for all Clean-up Events
- 27 Program Clean-up Events
- 145 Probationary Assignees



Community Outreach and Education

Goals

- Provide recycling and litter prevention education in the City of Fredericksburg and Stafford County
- Provide Backyard Composting classes to the City of Fredericksburg and Stafford County
- Participate in special events to promote recycling and litter prevention in the City of Fredericksburg and Stafford County

Programs

- Recycling and Litter Prevention tabling
- Recycling and Litter Prevention education for the community
- Environmental Education Trailer
- Social Media & Website Messaging



More than 3,500 people were reached through group presentations, workshops, and tabling events that provided education on topics such as recycling, litter prevention, and composting.

Over 2,500 K-12 youth were educated on recycling and litter prevention. Below are some outreach activities completed last year:

- The R-Board attended the Fredericksburg Rappahannock Earth Day on April 22, 2023. The R-Board brought the environmental education trailer, which provided environmental education and community outreach to over 300 residents.
- The R-Board took the environmental education trailer to several area schools in the City of Fredericksburg and County of Stafford.
- The R-Board attended the Fredericksburg Parks, Recreation, & Events, Earth Day 2022 event on Saturday, April 23, 2022. The R-Board brought the recycling education trailer and provided a recycling relay game at the booth. This event allowed the R-Board to provide recycling education



and community outreach. The R-Board distributed around 500 reusable shopping bags to event attendees.

- On May 12, 2023, the R-Board hosted a Compost-A-Thon that involved composting demonstrations, a composting panel, free countertop food scrap collectors and free compost bins for over 250 participants.
- The R-Board participated in Stafford County's Dare Day on May 23, 2023, at Pratt Park. Over 700 students were in-attendance and invited to explore the environmental education trailer. Students were also provided a backpack which included a recycling education workbook, bookmark, glow in the dark frisbee, and a pencil made from repurposed blue jeans.
- On June 11, 2023, the R-Board hosted a mini Compost-A-Thon event at the Lion's Farmers Market in Stafford. Food Scrap collection kits and backpacks filled with a recycling activity book, were offered to over 150 residents. Residents also had the option to register for a free Earth Machine Compost Bin.
- On June 17, 2023, the R-Board participated at the Embrey Mill's Juneteenth Day celebration. Information regarding litter prevention, recycling and composting was provided.