

ENVIRONMENTAL ADVISORY BOARD

The Environmental Advisory Board of the City of Raleigh held a meeting on Thursday, January 10, 2019 at 4:30 p.m. in Room 303, Wilders Grove Solid Waste Services Center, 630 Beacon Lake Drive, Raleigh, NC 27610 with the following present:

BOARD MEMBERS

Graham Smith, Chair
Brian Starkey, Vice Chair
Linda Watson
Beverly Clark
Brian Starkey
Anya Gordon
Jamie Cole
Justin Senkbeil
Benjamin Bobay
Aranzazu Lascurain

STAFF

Megan Anderson, Sustainability Office
Cindy Holmes, Sustainability Office
Nicole Goddard, Sustainability Office
Greg Sponseller, Sustainability Office
Stan Joseph, Solid Waste Services
Amanda Astor, Solid Waste Services
Alyssa Kiefer, Solid Waste Services

ABSENT

CITY COUNCIL

PUBLIC

Elaine A Cohen Hubal, PhD

- I. Tour of Solid Waste Services Wilders Grove LEED Platinum Facility**
 - a. Ms. Amanda Astor conducted a tour of the Wilders Grove Facility highlighting the LEED building features and environmental designs.
- II. Call to Order**

Mr. Graham Smith called the meeting to order at 5:00 p.m.
- III. Approval of Meeting Minutes**

The minutes from the December meeting were approved as written.
- IV. Public Comment**

No public comments were provided.
- V. SWS Presentation**
 - a. Mr. Stan Joseph provided a presentation to the Board offering an overview of Solid Waste Services operations including scope of services, technology, finances, recycling and waste markets, and future plans for the department.
 - b. Potential activities for upcoming meetings involving Solid Waste Services were discussed.
 - i. A tour of the yard waste facility will take place prior to the meeting on February 13th at 4:15 p.m. The meeting will be held at the Wilders Grove facility. The Board will meet at Wilders Grove and take a bus to the yard waste site.
- VI. Staff Updates**
 - a. 2019 Environmental Awards
 - i. Ms. Nicole Goddard stated that the EA subcommittee had a second meeting and discussed room layout and other tactical plans.

- ii. The Awards Celebration agenda was adjusted to reduce the time of the awards and extend the networking time.
- iii. All Board members were asked to contact organizations and individuals that may be award worthy, since there have not been many applications submitted for the Environmental Awards yet.
- iv. The deadline for applications is February 1st, 2019.

VII. Announcements/Member Comments

- a. Ms. Linda Watson requested an update on the posting of the EAB minutes to the City website. She requested a deadline or expected completion date for when this information will be available on the website.
- b. Ms. Aranzazu Lascurain was welcomed back from her temporary climate research assignment at the USGS facility in Virginia.

VIII. Other Business

- a. No other business was discussed.

IX. Upcoming Meetings/Events

- i. Next Meeting – February 13, 2019 at the Wilders Grove Solid Waste Services Facility. The Board will meet at 4:15 p.m. at Wilders Grove, 630 Beacon Lake Drive, Raleigh, NC 27610, and tour the Yard Waste Facility with the meeting to follow immediately after.
- ii. **The Environmental Awards will be held on April 4, 2019 at 6 p.m. at Market Hall.**

X. Adjournment

The meeting concluded at 6:30 p.m.

Attachments:

SWS Presentation

Solid Waste Services
Department

Wilders Grove Overview

Director, Stan Joseph



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Wilders Grove Solid Waste Facility

- Wilders Grove Facility, is the nation's first integrated solid waste facility. The 27-acre LEED platinum facility consists of a 24,000-sf administration building designed to accommodate up to 300 employees, a vehicle wash bay, fueling center and parking for nearly 200 collection and support vehicles.
- Completed in March 2012, at a cost of \$14.65 million, the facility reduces energy consumption by more than 40 percent using renewable geothermal energy, LED lighting, solar photo voltaic panels and a web-based building control system. Recycled building materials were incorporated throughout construction of the facility, and nearly 95 percent of the construction waste was diverted from landfills.





Scope of Solid Waste Services

Garbage

Residential Curbside Collection
Central Business District

Recycling

Curbside Collections
Multifamily Recycling Program
Recycling Drop Off Centers
Textile Recycling (Pilot)





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Scope of Solid Waste Services (cont)

Yard Waste

Residential Curbside Yard Waste Collection
Yard Waste Center Operations

Special Services

Bulky/Special Load Collections
Special Event Support
Dead Animal Removal
Big Belly Solar Garbage & Recycling
eRecycling & Shred Events
Seasonal Christmas Tree & Grease Collection

Solid Waste Assets

191 Personnel
160 Solid Waste Vehicles
4 CNG Vehicles





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Waste Management Technology

- FleetMind
- Geographic Information System (GIS)
- Radio Frequency Identification (RFID)
- RouteSmart
- Waste Wizard
- Push to Talk (Ongoing)
- Centralized Dispatching (Ongoing)



Where we Operate

Demographics

- 130,000 – Households
- 120 – Commercial Businesses (CBD)
- 454 – Multifamily Communities

Convenient Center Sites

- Jaycee Park
- Habitat Wake Restore
- Yard Waste Center



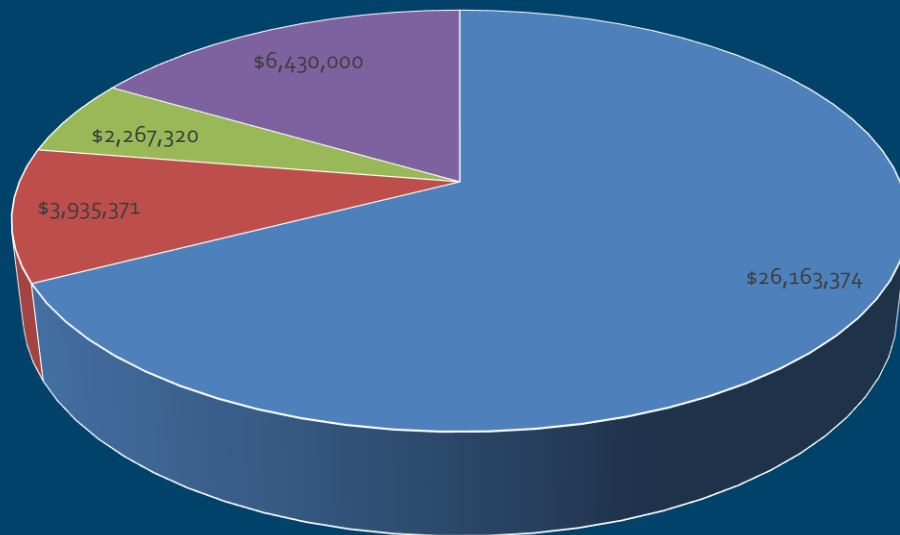


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Solid Waste by the Numbers

FY 19 Adopted Budget \$38,653,685

SWS FY 19 Revenues

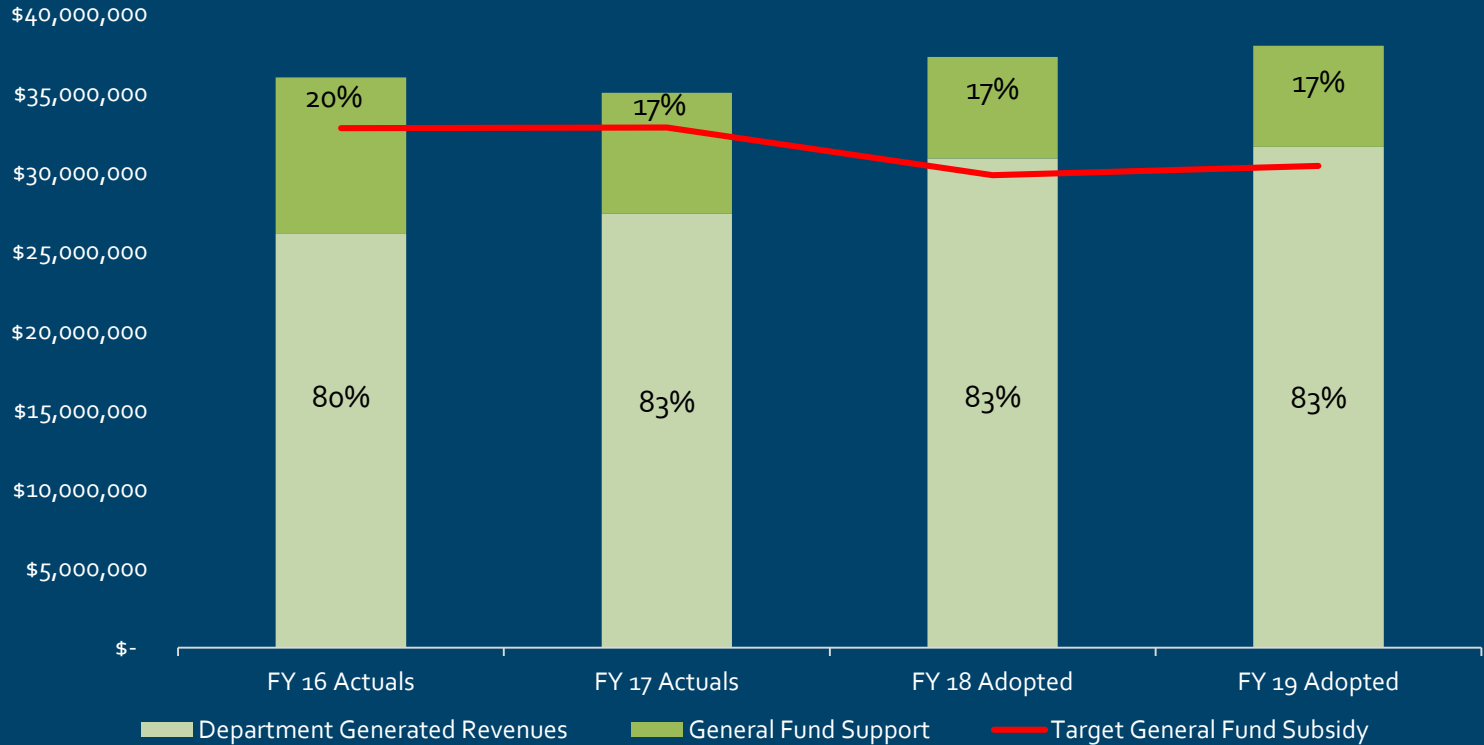


■ Operating Revenues

■ Other Revenues

■ Fund Balance Appropriation

■ General Fund Support





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Yard Waste Center

- The [Yard Waste Center](#), opened in 1992, and serves as a recycling center for yard waste collected as part of the curbside yard waste collection program.
- Items such as grass clippings, shrubbery trimmings, leaves, limbs, logs, brush and pine straw, are recycled into wood chips, mulch, compost and made available for purchase during business hours.





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Environmental Compliance

Ongoing Challenges and Opportunities

The Yard Waste Center currently has a backlog estimated at 950,000cy of compacted feedstock. An average of 29,521 tons were not distributed and stockpiled from FY00–FY18 (*regulation is 75% of the received material by tons). As a result of the backlog, a violation was issued by NC DEQ on August 30, 2017.

FY00 – FY18

- 40,169 tons received
- 10,648 tons distributed*

FY19 July 1st – Dec 31st

- 26,009 tons received
- 6,110 tons distributed*



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Landfill

Stream Restoration Project

The City identified a need for stream restoration on the closed landfill. Applications for pre construction have been submitted.

The extent of the project is significant in size about 50' wide by 25' deep. Projected costs is \$500,000. Design and construction plans have been completed by AECOM.

Landfill Gas

Due to reduced methane concentrations and emissions, the landfill gas collection system is in the initial phase of applying to reduce the Title V Air Quality Permit. The flare monitoring device was upgraded to remote monitoring system in July 2017. The flare start-up shut-down can now be regulated via cell phones.





RECYCLE ONLY THESE ITEMS:

- | | | |
|--|---|---|
| 1

METAL CANS, TINS, CLEAN FOIL | 2

GLASS BOTTLES, JARS | 3

CARDBOARD |
| 4

PAPER | 5

PAPER BOWLS, PAPER CUPS, PAPER PLATES | 6

PLASTIC BOTTLES, PLASTIC JUGS, PLASTIC TUBS |
| 7

HOUSEHOLD APPLIANCES, ELECTRONICS, FURNITURE, ETC. | DO NOT RECYCLE THESE ITEMS:

FOOD WASTE

LIQUIDS | |

RECYCLE ONLY THESE ITEMS:

- | | | |
|--|---|---|
| 1

METAL CANS, TINS, CLEAN FOIL | 2

GLASS BOTTLES, JARS | 3

CARDBOARD |
| 4

PAPER | 5

PAPER BOWLS, PAPER CUPS, PAPER PLATES | 6

PLASTIC BOTTLES, PLASTIC JUGS, PLASTIC TUBS |
| 7

HOUSEHOLD APPLIANCES, ELECTRONICS, FURNITURE, ETC. | DO NOT RECYCLE THESE ITEMS:

FOOD WASTE

LIQUIDS | |

PROPERTY OF THE CITY OF RALEIGH
FOR RECYCLING SERVICES, CONTACT
919.996.5246

Multifamily Recycling Program

Dumpsters and Cabinets



Recycling Dumpsters



Customer Care

RECYCLE ONLY THESE ITEMS:

1



METAL CANS, TRAYS,
CLEAN FOIL

2



GLASS BOTTLES,
JARS

3



CARTONS

4



PAPER

5



PAPER BOXES,
TUBES, SPIRAL CANS

6



PLASTIC BOTTLES,
TUBS, #1 CLAMSHELLS

7



CARDBOARD

DO NOT RECYCLE THESE ITEMS



FOAM



PLASTIC BAGS

PROPERTY OF THE CITY OF RALEIGH
SOLID WASTE SERVICES DEPARTMENT
FOR SERVICE CONCERNS, CALL
919.996.3245



Roger Austin
@RogerTheGeek

Follow

Hey @RaleighGov please tell the Solid Waste guys we appreciate their work. They just picked up a bunch of our yard waste in the nasty rain.

11:55 AM - 4 Jan 2019



Education and Outreach Social Media



Simple Recycling Partnership

Curbside Textile Recycling (Pilot)

- Raleigh offers free curbside textile recycling for single family residential customers. The pilot program began Feb. 2018. The service is meant to collect unwanted clothing, shoes, and accessories that otherwise would be thrown in the trash.





Zero Waste Initiative

- Wilders Grove is among the City's first to adopt and implement a Zero Waste Plan! Zero Waste is an initiative to help reduce consumption, minimize waste, maximize recycling and ensure products are made to be reused or recycled.
- Compost bins have been installed to capture compostable wastes – including food scraps, used/soiled napkins and paper plates, and compostable plastic ware.



On the Horizon

- Evolution of Recycling
- Central Business District (CBD)
- Route Optimization
- Yard Waste/Compost





Questions?
