



DEPARTMENT OF
**ENVIRONMENTAL
PROTECTION**



Montgomery County, Maryland

4TH QUARTERLY REPORT for FY-18

APRIL, MAY AND JUNE 2018



County Executive Ike Leggett is recognized by the Department of Environmental Protection with a special recycling achievement award in recognition of his extraordinary and longstanding commitment and leadership to improving the community and protecting the environment. Mr. Leggett's personal and professional efforts to increase recycling through the embodiment of his actions have greatly advanced recycling achievement in the County.

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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the months of April, May, and June including the fiscal year to date (FY YTD), and the same calendar month in the two prior fiscal years (County Fiscal Year 2018 began July 1, 2017).

FACILITY	April FY18	FY18 YTD	April FY17	April FY16
Recycling Center ⁽¹⁾	5,708 tons	56,296 tons	5,547 tons	5,678 tons
Non Processibles to Greencastle, PA ⁽⁶⁾	5,000 tons	20,974 tons	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	51,889 tons	507,149 tons	46,200 tons	55,803 tons
Yard Trim Compost Facility	5,042 tons	46,521 tons	4,552 tons	5,280 tons
Honeygo Run Reclamation ⁽³⁾	0 ton	0 ton	1,102 tons	648 tons
Other Rubble and Soil Recycling ⁽⁴⁾	2,643 tons	23,653 tons	3,633 tons	4,883 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	16,122 tons	155,156 tons	13,079 tons	16,347 tons
MSW Bypass to Landfills	372 tons	17,141 tons	4,500 tons	0 ton

FACILITY	May FY18	FY18 YTD	May FY17	May FY16
Recycling Center ⁽¹⁾	5,832 tons	62,296 tons	3,690 tons	5,859 tons
Non Processibles to Greencastle, PA ⁽⁶⁾	5,174 tons	26,148 tons	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	40,524 tons	547,673 tons	55,416 tons	56,776 tons
Yard Trim Compost Facility	3,735 tons	50,255 tons	6,342 tons	5,577 tons
Honeygo Run Reclamation ⁽³⁾	0 ton	0 ton	1,227 tons	1,040 tons
Other Rubble and Soil Recycling ⁽⁴⁾	4,072 tons	19,946 tons	4,521 tons	4,318 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	13,271 tons	168,427 tons	14,636 tons	15,813 tons
MSW Bypass to Landfills	3,003 tons	20,144 tons	8,084 tons	0 ton

(1) Recycling Center tons reported as outgoing.

(2) RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here.

(3) Non-processible waste sent to be sorted for recycling and landfilled.

(4) As of July 1, 2014, the Shady Grove Processing Facility and Transfer Station began soil screening operations to increase rubble and soil recycling.

(5) Ash sent to Old Dominion Landfill for internal roads within working landfill cells and alternate daily cover.

(6) As of July 1, 2017, the Shady Grove Processing Facility and Transfer Station began shipping non processible waste (Mountain View Reclamation Landfill, Greencastle, PA).

FACILITY	June FY18	FY18 YTD	June FY17	June FY16
Recycling Center ⁽¹⁾	6,087 tons	68,215 tons	2,638 tons	6,632 tons
Non Processibles to Greencastle, PA ⁽⁶⁾	5,073 tons	31,221 tons	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	55,404 tons	603,077 tons	43,448 tons	55,271 tons
Yard Trim Compost Facility	4,742 tons	54,997 tons	4,880 tons	4,895 tons
Honeygo Run Reclamation ⁽³⁾	0 ton	0 ton	818 tons	1,406 tons
Other Rubble and Soil Recycling ⁽⁴⁾	5,292 tons	32,996 tons	6,090 tons	4,647 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	15,508 tons	183,935 tons	13,469 tons	14,592 tons
MSW Bypass to Landfills	6,498 tons	26,642 tons	6,503 tons	0 ton

(1) Recycling Center tons reported as outgoing.

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Revenue Analysis and Systems Evaluation

During April, May and June program staff:

- Researched properties and entered billing changes into the database;
- Prepared monthly house counts for collection contractors;
- Processed vacancy refunds payable in April, May and June;
- Updated Access™ databases and Excel™ spreadsheets for monthly Refuse and Recycling Collection contractor reports;
- Continued routine research and correction of solid waste fee abnormalities as they emerge in the property tax database;
- Generated Hauler/Collector Credit Account invoices for April, May and June 2018 totaling \$4,068,702.98 (a decrease of \$124,829.12 below the same quarter in 2017);
- Updated the Aging Report (30-day average arrearage was less than \$15,000 per month for the quarter);
- Reconciled April, May and June 2018 tons to monies posted in ERP, as well as to the total dollars charged in Paradigm;
- Completed the FY18 3rd Quarter budget analysis;
- Continue implementing credit card system at Transfer Station scale house;
- Encumber funds for FY19 approved budget for contracts that will began work on July 1st; and
- Continue the year-end process review for FY18 budget.

CITIZEN COMMITTEES

Dickerson Area Facilities Implementation Group (DAFIG) – DAFIG met on Tuesday, June 12, 2018. Topics discussed included the following:

- Rustic Road Maintenance
- RRF – Corrective Action Plan
- Site II – Deer Management
- Environmental Monitoring Update
- DEP Compliance Report
- HHS participation on DAFIG meeting
- Facilities Update
- Solid Waste Master Plan – County's selected Task Force

The next quarterly DAFIG meeting will be held on September 11, 2018.

Solid Waste Advisory Committee (SWAC)

April – Reviewed FY19 Budget comments, discussed calendar events, membership status, legislative concerns, and MRF debrief. Sugarloaf Citizens' Association President, Lauren Greenberger, raised concerns over the 2021 contract renewal for the RRF and operations.

May – Eileen Kao, Chief, Waste Reduction and Recycling Section (DSWS), gave a presentation on the Strategic Plan to Advance Composting, Compost Use, and Food Waste Scraps Diversion in Montgomery County. Discussed the Montgomery County's Integrated Waste System Master Plan Initiative: "The Future of Responsible Solid Waste Management in Montgomery County."

June – HDR Engineering, Inc. gave a presentation on the County's Integrated Waste System Strategic Plan, and the Montgomery County Public Schools gave a presentation on the public schools recycling programs.

COLLECTIONS

Resident Missed Collection Complaints: These are calls from residents contacting MC311 one or two days after their collection day informing us that their solid waste or recyclables were not collected.

April 2018	111
April 2017	459
Difference	- 348
May 2018	209
May 2017	1,642
Difference	- 1,433

June 2018	149
June 2017	528
Difference	- 379

Resident Service Requests:

April 2018

22 gallon bin pick-up	837
22 gallon bin request	2,305
Bulk trash requests	2,559
Cart pick-up	22
Cart repair	600
65 gallon cart	142
35 gallon cart	123
Field check	427
Literature	378
Property damage/missing	31
Same day	342
Scrap Metal request	2,255

May 2018

22 gallon bin pick-up	804
22 gallon bin request	2,256
Bulk trash requests	3,074
Cart pick-up	27
Cart repair	561
65 gallon cart	196
35 gallon cart	123
Field check	524
Literature	426
Property damage/missing	24
Same day	571
Scrap Metal request	2,821

June 2018

22 gallon bin pick-up	531
22 gallon bin request	1,496
Bulk trash requests	3,010
Cart pick-up	23
Cart repair	390
65 gallon cart	122
35 gallon cart	87
Field check	480
Literature	370
Property damage/missing	28
Same day	411
Scrap Metal request	2,646

Outreach:

Survey Cards:

Our driver/clerk distributes a survey card at each container related service stop. Figures in tables are percentages.

In **April**, 479 cards were dropped off with a return rate of 12%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	94%	6%	0%	0%	0%
County Provided Collection Services	71%	19%	8%	2%	0%

In **May**, 627 cards were dropped off with a return rate of 9%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	93%	7%	0%	0%	0%
County Provided Collection Services	87%	13%	0%	0%	0%

In **June**, 669 cards were dropped off with a return rate of 11%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	88%	5%	3%	3%	1%
County Provided Collection Services	81%	15%	3%	1%	0%

Collection Section Enforcement Actions:

April:

- Citations: There were no citations issued.
- Notices of Violation: There were no notices of violation issued.

May:

- Citations: There were no citations issued.
- Notices of Violation: There were no notices of violation issued.

June:

- Citations: There were no citations issued.
- Notices of Violation: There were no notices of violation issued.

Website:

Solid Waste Services Website

Metric	April 2018	May 2018	June 2018
Users	36,198	42,389	37,090
Sessions	56,858	64,469	57,638
Page Views	144,242	151,056	140,681

Email / Text Message List Memberships

Topic	Subscribers		
	April 2018	May 2018	June 2018
Holiday Reminder	22,776 (3)	22,717 (-59)	22,653 (-64)
Collection Reminders	18,745 (207)	18,934 (189)	19,074 (140)
HHW Announcements	11,628 (-2)	11,603 (-2)	11,580 (-23)
Facility Updates	9,453 (112)	9,523 (70)	9,603 (80)
Electronics recycling	13,973 (157)	14,074 (101)	14,189 (115)
Expanded Polystyrene Ban news and updates	698 (21)	717 (19)	730 (13)
Go Green	4,738 (-1)	4,725 (-13)	4,713 (-12)
Civic Loop	4,252 (19)	4,253 (1)	4,257 (4)
SORRT Newsletter	3,784 (20)	3,818 (34)	3,814 (-4)
TRRAC Newsletter	2,618 (20)	2,606 (-12)	2,608 (2)
Quarterly Report	3,019 (21)	3,027 (8)	3,035 (8)
Paper Shredding Events	12,795 (148)	12,886 (91)	13,010 (124)
Recycling Volunteers - Active	249 (0)	249 (0)	320 (71)
Recycling Volunteers - Prospective	133 (0)	133 (0)	276 (143)
Learn about new web features	562 (21)	579 (17)	591 (12)
Total Subscriptions	109,423 (740)	109,844 (421)	110,453 (609)

Most Popular Web Pages

April 2018	May 2018	June 2018
1. Transfer Station detail page	Transfer Station detail page	Transfer Station detail page
2. How Do I	Recycling, Trash and Yard Trim Programs – home	Webstore – 22-gallon bins
3. Recycling, Trash and Yard Trim Programs – home	How Do I	How Do I
4. Bulk Trash	Bulk Trash	Bulk Trash
5. DSWS home page	Holidays	DSWS home page
6. Collection Day Lookup	Collection Day Lookup	Paper Shredding
7. Paper Shredding	DSWS home page	Collection Day Lookup
8. Webstore – 22-gallon bins	Webstore – 22-gallon bins	Webstore – 22-gallon bins
9. Holidays	Webstore – Shopping cart	Webstore – Shopping cart
10. Webstore – Shopping cart	Paper Shredding	Webstore – Recycling bins and containers

ADDITIONAL RECYCLING

Product Recycled	April FY18	FY18 YTD	April FY17	April FY16
TVs and PCs	114 tons	1,268 tons	136 tons	153 tons
Propane Tanks	4 tons	24 tons	2 tons	2 tons
Textiles	3 tons	57 tons	5 tons	12 tons
Construction Materials (Don't Dump – Donate)	0 ton	2 tons	0 ton	0 ton
Vehicle Batteries	8 tons	63 tons	12 tons	10 tons
Scrap Metal	635 tons	6,051 tons	739 tons	397 tons

Product Recycled	May FY18	FY18 YTD	May FY17	May FY16
TVs and PCs	128 tons	1,396 tons	135 tons	155 tons
Propane Tanks	4 tons	28 tons	5 tons	4 tons
Textiles	2 tons	59 tons	95 tons	6 tons
Construction Materials (Don't Dump – Donate)	1 ton	3 tons	1 ton	0 ton
Vehicle Batteries	11 tons	74 tons	8 tons	5 tons
Scrap Metal	723 tons	6,774 tons	661 tons	689 tons

Product Recycled	June FY18	FY18 YTD	June FY17	June FY16
TVs and PCs	134 tons	1,530 tons	147 tons	151 tons
Propane Tanks	5 tons	33 tons	4 tons	4 tons
Textiles	8 tons	67 tons	7 tons	0 ton
Construction Materials (Don't Dump – Donate)	0 ton	3 tons	0 ton	0 ton
Vehicle Batteries	10 tons	84 tons	10 tons	14 tons
Scrap Metal	588 tons	7,362 tons	805 tons	751 tons

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste (HHW) Collection – There were a total of 36,894 patrons in the program during the fourth fiscal quarter. During normal business hours, we had 35,141 patrons; after 5:00 p.m., we had 1,753 patrons.

Small Quantity Generator/ECOWISE Program – There were 38 ECOWISE participants this quarter that discarded 3.78 tons of business-related hazardous materials during the quarter.

WASTE REDUCTION

Bicycle Recycling – “Bikes for the World” removed 3 tons of bikes in this quarter for shipment to countries worldwide.

Paint Reduction – During this fourth quarter, 423 gallons of latex paint was given to 53 residents, and 63 tons of latex paint was donated to nonprofit organizations. Paint that cannot be reused or donated was further processed which resulted in more than 165 tons of paint being processed for proper disposal.

Straight Vegetable Oil (SVO) Recycling – The Transfer Station has a vendor that accepts Waste Vegetable Oil (WVO) for the sole purpose of biodiesel production. During the fourth fiscal quarter, 10 tons of WVO were shipped out for processing into biodiesel.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility (RRF): CEMS Tracking of RRF Emissions – On Thursday, June 14, 2018, at 2:57 a.m., Unit #2 developed a tube leak that required the unit be taken offline. As result the facility exceeded its 1-hr and 4-hr CO mass limits. Exceedances of this type are reported under the facility's air permit. No regulatory consequences are expected. There was no other exceedence of air permit emission limits during the quarter.

TES Contract (RRF Weather Station) – All the instrumentation worked normally this quarter. Data recovery for all parameters was 100 percent. Precipitation for the month of April 2.86 inches, May was 6.51 inches and June 5.33 inches.

WASTE REDUCTION AND RECYCLING

Public Education and Outreach –

- Staff from the Waste Reduction and Recycling Section and Recycling Program volunteers actively participated in 17 activities, events and training sessions reaching 3,688 people this quarter.
- Staff responded to 16 requests for information and printed materials on the County's waste reduction, reuse and recycling programs.
- Staff responded to three (3) questions pertaining to the ban on the use and sale of expanded polystyrene food service products and packaging peanuts; and forwarded eight (8) complaints regarding the use of expanded polystyrene food service products to the Recycling Investigators for follow-up and investigation.
- Staff members and recycling program volunteers participated in DEP's annual GreenFest event, held May 5, 2018.

- Staff continued to actively participate in DEP’s planning efforts for the 2018 Montgomery County Agricultural Fair, August 10-18, 2018.
- Staff coordinated and conducted a series of confidential paper shredding/recycling and clothing/household items reuse collection events this spring:

Date	Location	Total amount of confidential paper shredded/recycled and cardboard recycled
April 8	Kennedy High School	44,960 lbs.
May 12	Watkins Mill High School	28,840 lbs.
June 3	Poolesville High School	8,080 lbs.

- Coordinated and conducted a community-wide confidential paper shredding and recycling event in partnership with NBC-4, Shred-It, and Montgomery College on June 23, 2018. A total of 1,504 vehicles came through the event and shredded and recycled 99,035 pounds of confidential paper and 3,240 pounds of cardboard boxes.
- Provided comprehensive technical assistance, training, and education for the 2018 Quicken Loans National at TPC Avenel from June 25 through July 1, 2018. Assistance included the loaning of 300 event recycling containers that were placed throughout the event site to maximize recycling opportunities for spectators, players, staff, vendors, and concessionaires.
- Staff completed the development of the Strategic Plan to Advance Composting, Compost Use, and Food Scraps Diversion, as required per Council Bill 28-16. The Plan was transmitted to Council on April 12, 2018 and a T&E Session is scheduled for July 12, 2018.
- Staff reviewed and provided comments on “Recycling Facility Plans” for two (2) planned multi-family properties in Bethesda seeking to achieve public benefit points.
- Staff coordinated and conducted waste reduction, reuse and recycling assemblies at 12 private schools as part of 2018 Montgomery County Recycling Awareness Week (week of May 21-25, 2018). In addition, the 19th annual Recycling Achievement Recognition Ceremony was held on May 22nd and highlighted the exemplary waste reduction, reuse and recycling efforts of 31 individuals, multi-family properties and businesses. At the recognition ceremony, DEP presented the County Executive with a Lifetime Recycling Achievement Award for his many accomplishments in recycling, and for his leadership and advocacy to advance the County’s efforts to reduce, reuse and recycle more.
- Staff provided a presentation on food scraps diversion at the 2018 MRN & SWANA Mid-Atlantic Annual Conference on June 19, 2018.

On-Site Composting and Waste Reduction Activities – Staff and recycling volunteers continued to provide education and training to encourage and motivate residents to manage yard trim materials (grass clippings, leaves and garden trimmings) on-site through backyard/on-site composting and grasscycling. Staff accomplished the following this quarter:

- Distributed 589 backyard compost bins to residents through distribution at various events in addition to the 22 compost bin pick-up locations in the County.
- Thirty-two (32) residents participated in a backyard composting demonstration and compost bin distribution event at Meadowside Nature Center on April 6, 2018.
- Conducted two (2) composting workshops this spring (GEICO Headquarters and Brookside Gardens), reaching 515 people.
- Added a compost bin distribution site at Kensington Park Library during May, bringing the number of locations where residents can pick-up a compost bin to 22 locations.
- Ensured that all 22 compost bin pick-up locations throughout the County had an adequate supply of compost bins; completed 23 requests for deliveries of additional compost bins.
- Responded to sixteen (16) requests for information or materials related to backyard composting/grasscycling.

Recycling Investigations Unit – Since the unit was established in 2005, 81,453 site visits and 8,090 formal investigations have been conducted. During this quarter:

- 149 NOVs were issued to businesses and multi-family properties for infringements against the recycling regulations and Chapter 48.
- 23 citations were issued to businesses as follows:

# of Citations Issued	Reason for Citation	Citation issued to Business, Collector, Multi-Family Property, or Other
8	Failure to recycle required recyclable materials	Business
12	Failure to submit an annual recycling and waste reduction report (multi-family)	Multi-Family
1	Failure to submit an annual recycling and waste reduction report (business)	Business
1	Failure to provide and maintain an approved container for the storage of solid waste	Business
1	Failure to store solid waste in a vermin-proof and waterproof container equipped with a tight-fitting lid	Business
23	Total Number of Citations Issued	

Commercial Recycling and Waste –

- Staff from the SORRT (Smart Organizations Reduce and Recycle Tons) Program conducted 1,440 site visits to businesses, non-profit organizations, and Federal, State and County government facilities to monitor the status and progress of their recycling programs, and to recommend on-site recycling program improvements.
- Staff participated in 57 business-related educational events, reaching 5,314 employees.
- Staff resolved 8 complaints and responded to 301 requests for information and materials.
- Staff distributed the following types and quantities of recycling containers to businesses to increase on-site recycling efforts:

Desk-Side (13-gal) Recycling Bins	Slim Jim (23-gal) Recycling Bins
1,279	80

- DEP conducted its third annual school recycling poster contest entitled “Reduce, Reuse and Recycle: Each Day. Every Day”. Over 300 students from different public and private educational institutions in Montgomery County submitted their entries. A panel of six (6) independent judges, with professional art experience, selected eighteen winning posters that best depicted this year’s poster contest theme. The students with the winning entries were recognized during a recognition ceremony on April 19 and received a certificate of achievement, an enlarged laminated version of their poster, and a recycled-content towel that featured their artwork.
- On June 20, 45 business representatives attended the Business Waste Reduction and Recycling seminar entitled “Make Waste Reduction and Recycling A Core Value at Your Business.” The seminar featured four (4) guest speakers who presented on their workplace waste reduction and recycling programs and how they have made these efforts part of their daily operations, as well as information pertaining to markets for recyclable materials.
- Training and certifications were completed this spring for Janitorial and Maintenance Service Companies/Providers. DSWS conducted 11 training sessions and trained 186 employees from ten janitorial/maintenance service companies. Five of these companies are new to the program.
- The SORRT Program received a total of 557 Annual Business Recycling and Waste Reduction Reports covering Calendar Year 2017. The SORRT team is in the process of conducting field verifications of the annual recycling reports to ensure the accuracy of the data submitted.

Multi-Family Recycling and Waste Reduction –

- Staff from the TRRAC (Think, Reduce and Recycle at Apartments and Condominium) Program conducted 129 on-site visits to multi-family properties to monitor the status and progress of their recycling programs and to recommend on-site recycling program improvements.

- Staff participated in 8 multi-family property educational events, reaching 269 people.
- Staff responded to 120 requests for information and resolved 14 complaints.
- Staff distributed the following types and quantities of recycling containers to multi-family apartments and condominiums to increase on-site recycling efforts:

Baby Blue (6-gal) Recycling Bins	Slim Jim (23-gal) Recycling Bins	WasteWatcher XL (32-gal) Recycling Bins	Glutton (55-gal) Recycling Bins
1,635	129	145	32

- On June 6, 2018, TRRAC hosted a Multi-Family Waste Reduction and Recycling Seminar at the Hyatt Regency Bethesda hotel. Twenty-two multi-family property managers and staff attended.
- All required CY2017 Annual Multi-Family Recycling and Waste Reduction Reports were received, covering 695 properties. Staff continued processing, field verifying, and approving the submitted reports.
- The TRRAC Program conducted three (3) focus groups to solicit comments and feedback from multi-family residents and property managers on existing educational materials. Fourteen multi-family residents participated in two separate research sessions and six (6) property managers participated in a third session.

Mixed Paper Recycling – Existing educational materials were distributed to residents at several events. Larger quantities of materials were also provided to homeowner associations and civic groups for their use and distribution. In addition, to raise awareness of paper recycling to businesses and multi-family properties, Lewis Selis, President and Owner of Georgetown Paper Stock in Rockville, was invited to participate in the SORRT and TRRAC waste reduction and recycling seminars this spring. Mr. Selis presented information and discussed the impacts of contamination on paper recycling markets, and the future of recycling programs for businesses and multi-family properties.

Volunteer Activities – A total of 114 Recycling Program volunteers, some participating in multiple events, contributed over 484 hours of their time to support waste reduction, reuse and recycling activities this quarter.

- Five (5) recycling volunteers provided over 50 hours of office assistance.
- Thirty-seven (37) recycling volunteers provided nearly 107 hours of service during eight (8) community events and provided information on waste reduction, reuse and recycling to 1,605 residents.
- Thirty-one (31) recycling volunteers contributed 138 hours of service during the three (3) spring paper shredding/recycling and reuse collection events at Kennedy High School, Watkins Mills High School, and Poolesville High School.
- Forty-one (41) recycling program volunteers contributed 189 hours of time for the NBC-4 Community Paper Shredding/Recycling event at Montgomery College on June 23, 2018.

- Staff continued efforts to recruit new recycling volunteers. During this quarter, five (5) new recycling volunteers and 16 volunteer applicants were recruited.
- A total of 13 new and existing recycling volunteers received information about the County's recycling and solid waste programs and services during two (2) volunteer orientation and trainings sessions provided this quarter.
- Through June 30, 2018, there are 476 active recycling program volunteers.

PILOT PROGRAMS

Cooperative Collection/Alternative Collection – The SORRT Program continued to monitor all three Cooperative Collection Projects in Silver Spring to ensure that the participants are recycling properly.

EOB Cafeteria Food Scrap Recycling Model Project – DEP continued to monitor the model food scrap recycling collection project for the EOB cafeteria.

- To date (November 1, 2011 – May 31, 2018), a total of 133.9 tons of pre-consumer food scraps have been collected and recycled.
- Staff continues to monitor the collection area daily and check for feedback from cafeteria staff on a regular basis.
- Staff continues to monitor the food scrap recycling collection containers for the cafeterias at the Council Office Building and the Public Safety Headquarters Building.
- Compostable/biodegradable bags were distributed to all three locations this quarter.

FACILITY ACTIVITIES

Resource Recovery Facility (RRF) –

RRF processed	147,817 tons / 1,624 per day
RRF tours	4
RRF exported power	85,184,000 kilowatt-hours to the power grid
Ferrous material recovered from ash	3,248 tons

Average boiler availability was 85% while the plant ran at 82% capacity based on steam flow.

During the quarter Units 1, 2 and 3 were offline for scheduled cold iron outage. Unit 2 was also offline for its spring major outage which last 21 days. It included significant repairs to the boiler and a replacement of the scrubber cylinder, roof, outlet duct and expansion joint. In addition, the units were down to repair tube leaks, and a fan bearing on a combustion air fan. There was a need to purchase 263.8 MWh of electricity during the quarter.

Recycling Center – During the fourth quarter, the Recycling Center production continued as two separate and distinct operations to better account for the operational and production aspects between the commingled material and the new mixed paper processing facility. Between both systems the Recycling Center received more than 19,010 tons of recyclable material of which more than 8,085 tons of incoming commingled recyclable material and more than 10,925 tons of cardboard, mixed paper, and other fiber-related materials were processed and/or exported to commodity vendors and processors under contractual agreements.

The fourth quarter's production continued to be affected by China's decision to restrict certain levels of fiber-related material, as well as certain mixed plastic commodities. The impact of the China decision impacted all domestic markets; however, the financial impact on the County's commodity rates seemed to level out and even saw an increase in some of the plastic commodities categories. The main effect of the China decision was on our mixed paper production due to restricted access to overseas containers shipping exported materials to China.

Although the export of mixed paper was impacted, we had entered into a multi-month agreement to move our mixed paper through September of 2018, in order to minimize the potential impact to the County. Likewise, the County entered in to a multi-year contract for our OCC and cardboard to be processed through domestic markets. These medium and longer-term agreements allowed us to guarantee that we would not encounter excess storage of baled material.

More than 4,013 tons of commingled material was exported under cooperation agreements as well due to the lack of system processing capacity.

During the fourth quarter regular and preventative maintenance programs continued on both the commingled and fiber sorting systems, and interval hour maintenance was performed on the loaders and other rolling stock equipment; routine repair and maintenance was performed on all processing equipment and rolling stock.

Oaks Landfill

Landfill Gas – The landfill gas collection systems are operational. The 2.4-Megawatt landfill gas-to-energy (LFGE) facility continues to operate with minor periods of outage due to maintenance requirements and low methane content. Scheduled maintenance for the engine genset(s) occurred in May 2018. APTIM and their subcontractor (Montrose Air Quality Services) performed the emissions stack testing for the Oaks LFGE facility in May 2018. The emissions report will be submitted to MDE in July 2018.

Nature and Extent Investigation – In consideration of MDE's approval of the NEI Comprehensive Report recommendations, DSWS initiated planning activities for the next phase of site investigations. This initial planning work was included in Task Order #24 for groundwater reporting services, under an option services task.

Leachate Pretreatment Facility – Normal landfill leachate treatment and hauling of the pretreated leachate to the Transfer Station discharge point continues as needed. DSWS and its Leachate Pretreatment Facility O&M Contractor performed testing of the influent and effluent leachate to compare against new potential WSSC discharge limits in May-June 2018. Initial testing results indicate compliance with discharge limits. Testing results in a summary report are anticipated in July-August 2018. DSWS held the Kick-off meeting for the new Leachate Pretreatment Facility O&M Contract in June 2018.

Groundwater Monitoring – The Spring 2018 semi-annual groundwater sampling was completed in April-May 2018. Task Order #24 for groundwater reporting services was initiated and awarded in May-June 2018. Task Order #25 was initiated, awarded, and completed for groundwater monitoring repairs in April-May 2018.

Gude Landfill

Landfill Gas – The Landfill Flare System is operational (including the gas collection system). The landfill gas monitoring systems are operational. One gas probe (W-18) continues to indicate the presence of methane gas above regulatory thresholds and DSWS's landfill gas contractor (APTIM) is investigating corrective measures. DEP continues weekly monitoring of the landfill gas probes.

Soil Stockpile Project – M-NCPPC provided the Forest Stand Delineation approval letter in late March 2018. DSWS was issued the County DPS Erosion and Sediment (E&S) Control Permit in April 2018. Construction field changes were submitted to County DPS and the revised E&S Control Permit approval was issued in May 2018. The Purple Line Transit Partners (the Contractor) installed E&S controls at soil stockpile site in June 2018. MDOT/MTA and the Purple Line are awaiting suitable excavation locations to become available in order to initiate hauling activities to the landfill. Hauling activities are anticipated to begin in July 2018.

Landfill Remediation Design Engineer Contract – Monthly Progress meetings have occurred from April-June 2018. DSWS conducted the County Senior Level Management Briefing in June 2018. Project Initiation, Pre-Design, and 30% Design activities have been started during April-June 2018 by EA Engineering. DSWS Meetings with the Gude Landfill Concerned Citizens (GLCC) occurred in April and June 2018.

Groundwater Monitoring – The Spring 2018 semi-annual groundwater sampling was completed in March-April 2018. Task Order #24 for groundwater reporting services was initiated and awarded in May-June 2018.

Beantown Dump Project

DEP continues to perform quarterly monitoring of the eighty-eight (88) above grade venting wells, which are part of the County's passive landfill gas venting system at the former Beantown Dump. The former Beantown Dump is located in proximity of Dover Road and East Gude Drive in Rockville, MD. DSWS is currently within the initial discussion and planning stages for a potential project to reduce the presence of methane gas at the former Beantown Dump.

Solid Waste Transfer Station – Covanta shipped 146,784 tons of processible waste via rail from the Transfer Station for the fourth quarter of FY18 compared to 144,029 for the same period last year.

The inbound radiation detectors had 16 total alarms this quarter by vehicles whose loads were identified as containing low levels of medical isotopes with short half-lives in the solid waste; and the Public Unloading Facility radiation detectors had 0 alarm.

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Transfer Station Enforcement – Under Chapter 48 of the Montgomery County Code, a total of 61 enforcement actions were issued during the reporting period. The enforcement composition breakdown includes:

Code Section	Description	Verbal	NOV	Citation	TOTAL
48.00.05.03(d)	<i>Delivering of solid waste acceptable for recycling</i>	2	1	1	4
48-11	<i>Illegal dumping, dumping in another's container, dumping solid waste on a public right-of-way</i>	0	0	0	0
48-19(a)(1)	<i>Transporting Solid Waste without a valid Collectors/Hauler tag</i>	0	0	1	1
48-19(a)(2)(a)	<i>Improper or no tarps on resident vehicle</i>	11	4	1	16
48-19(a)(2)(b)	<i>Transporting solid waste without a canvas or tarp covering the load tightly Commercial</i>	0	7	3	10
48-19(a)(3)	<i>Person cannot engage in business of collecting or transporting solid waste without obtaining a license</i>	2	1	6	9
48-20(a)	<i>Un-permitted Vehicle of a Licensed Company</i>	0	1	17	18
48-20(c)	<i>3-inch high letters required on vehicle</i>	0	0	0	0
48-20(d)	<i>Unsafe Vehicle</i>	0	1	0	1
48-22	<i>Permit Required for Transporting trash from Out of State into County</i>	0	0	0	0
48-23	<i>Leaving Vehicle (Trash Truck) running unattended</i>	0	0	2	2
48-24(c)	<i>Container Standards must be maintained</i>	0	0	0	0
48-48(a)	<i>Recycle compliance by Recycler</i>	0	0	0	0
48-48(b)	<i>Compliance by Hauler/Collector</i>	0	0	0	0
	TOTALS	15	15	31	61

Site 2 Landfill Properties – DGS Real Estate is in the process of preparing the Draper farm house to be rented. Notice was given that the current Washe Road house tenant will be leaving in six months.

Yard Trim Compost Facility –

April, May and June	FY18	FY17
Materials composted in tons	13,518 tons	15,774 tons
Materials diverted to back-up composting facilities	0	0
LeafGro™ shipped	5,417 cu yds.	3,395 cu yds.
LeafGro™ bagged shipped to distributors (Each bag is 1.5 cubic feet weighing 45 lbs.)	172,390 bags	128,200 bags

OUT-OF-COUNTY HAUL

Old Dominion Landfill, Richmond, VA – In the fourth quarter of FY18, approximately 44,901 tons of ash residue were transported to the Old Dominion Landfill for ash recycling and metal recovery. The Ash is screened into two grades for use as road base and alternate daily cover within the confines of the landfill owned by Republic Services. Metals are also removed from the ash both at the RRF and during the screening process at Old Dominion Landfill.

Mountain View Reclamation Landfill, Greencastle, PA. Approximately 15,247 tons of non-processibles were sent to Greencastle, PA in the third quarter of FY18 compared to 3,147 tons sent to Honeygo Run Reclamation site in Perry Hall, Maryland, for the same period last year.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste	311 or 240-777-0311
Customer Service	311 or 240-777-0311
Transfer Station	240-777-6560 (County Office) 301-916-3031 (Covanta) 301-330-2840 (MES)
Recycling Center	240-777-6591 (County Office) 301-417-1433 (MES)
Resource Recovery Facility	240-777-6494 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DEP	www.montgomerycountymd.gov/solidwaste www.montgomerycountymd.gov/recycling www.montgomerycountymd.gov/hazardouswaste www.montgomerycountymd.gov/yardtrim

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

Serena Bell
Department of Environmental Protection
Division of Solid Waste Services
101 Monroe Street, 6th Floor
Rockville, MD 20850
Tel: 240-777-6459
Fax: 240-777-6465
Email: serena.bell@montgomerycountymd.gov

SOLID WASTE FACTS IN A NUTSHELL

TOPIC OR FACILITY	
Latest Tonnage of Materials Recycled in Montgomery County	598,514 (CY16)
Latest Recycling and Waste Diversion Rate Reported in Montgomery County	61% (CY16)
Recycling Goal	70% by December 31, 2020
Resource Recovery Facility (RRF)	Permitted Capacity = 657,000 tons per calendar year (based on 5,500 BTU/lb waste)
Yard Trim Compost Facility	<p>Under the Sugarloaf Settlement Agreement, operations are limited to the receipt of 77,000 tons per fiscal year.</p> <p>In FY16, 65,104 tons of yard trim were received at the Dickerson facility.</p>
# Residences receiving trash collection by County contractors	91,900
# Residences receiving collection of recyclables in blue bins and yard trim collection	217,828
Transportation and recycling or beneficial reuse of ash residue from the RRF.	Through a task order with the Northeast Maryland Waste Disposal Authority, who in turn has a contract with BFI Waste Systems of Virginia, LLC, doing business as Old Dominion Landfill, that goes from July 1, 2017 through June 2024 with an optional 7 year renewal.

GLOSSARY OF ACRONYMS

BTU	British Thermal Unit
CEMS	Continuous Emissions Monitoring System
CY	Calendar Year
DAFIG	Dickerson Area Facilities Implementation Group
DGS	Department of General Services
DEP	Department of Environmental Protection
DSWS	Division of Solid Waste Services
E&S	Erosion and Sediment
ERP	Enterprise Resource Planning
EOB	Executive Office Building
FY	Fiscal Year
GLCC	Gude Landfill Concerned Citizens
HHW	Household Hazardous Waste
kWh	Kilowatt-hours
LFGE	Landfill Gas-to-Energy
MDOT/MTA	Maryland Department of Transportation / Maryland Transit Administration
MES	Maryland Environmental Services
MWh	Mega Watt hours
NOV	Notice of Violation
OCC	Old Corrugated Cardboard
REOI	Request for Expression of Interest
RRF	Resource Recovery Facility
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
SVO	Straight Vegetable Oil
TRRAC	Think Reduce and Recycle at Apartments and Condominiums
YTD	Year-To-Date