



DEPARTMENT OF
**ENVIRONMENTAL
PROTECTION**



Montgomery County, Maryland

DIVISION OF SOLID WASTE SERVICES

QUARTERLY REPORT

APRIL, MAY AND JUNE 2017

(4th Quarter of FY17)



The Mixed Paper Processing Facility (MPPF) opened May 2017.

Paper makes up 61 percent of all recyclables. The MPPF receives 170 tons of cardboard and mixed paper every day, five days per week, potentially saving over 14,000 trees per day.



Printed on Recycled and Recyclable Paper



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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 2017 began July 1, 2016).

FACILITY	April FY17	FY17 YTD	April FY16	April FY15
Materials Recovery Facility ⁽¹⁾	5,547 tons	60,083 tons	5,678 tons	6,234 tons
Other Landfill Facilities	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	46,200 tons	424,695 tons	55,803 tons	51,585 tons
Yard Trim Compost Facility	4,552 tons	48,258 tons	5,280 tons	6,029 tons
Honeygo Run Reclamation ⁽³⁾	1,102 tons	12,560 tons	648 tons	334 tons
Other Rubble and Soil Recycling ⁽⁴⁾	3,633 tons	33,567 tons	4,883 tons	4,093 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	13,079 tons	131,658 tons	16,347 tons	15,738 tons
By Pass MSW to Landfills	4,500 tons	70,011 tons	0 ton	0 ton

FACILITY	May FY17	FY17 YTD	May FY16	May FY15
Materials Recovery Facility ⁽¹⁾	3,690 tons	63,773 tons	5,859 tons	5,905 tons
Other Landfill Facilities	0 ton	0 ton	555 tons	0 ton
Resource Recovery Facility ⁽²⁾	55,416 tons	480,111 tons	56,776 tons	49,369 tons
Yard Trim Compost Facility	6,342 tons	54,600 tons	5,577 tons	6,492 tons
Honeygo Run Reclamation ⁽³⁾	1,227 tons	13,787 tons	1,040 tons	1,738 tons
Other Rubble and Soil Recycling ⁽⁴⁾	4,521 tons	38,088 tons	4,318 tons	3,417 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	14,636 tons	146,294 tons	15,813 tons	14,016 tons
By Pass MSW to Landfills	8,084 tons	78,095 tons	0 ton	0 ton

(1) MRF 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.

FACILITY	June FY17	FY17 YTD	June FY16	June FY15
Materials Recovery Facility ⁽¹⁾	2,638 tons	66,411 tons	6,632 tons	6,481 tons
Other Landfill Facilities	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	43,448 tons	523,559 tons	55,271 tons	60,984 tons
Yard Trim Compost Facility	4,880 tons	59,480 tons	4,895 tons	5,023 tons
Honeygo Run Reclamation ⁽³⁾	818 tons	14,605 tons	1,406 tons	546 tons
Other Rubble and Soil Recycling ⁽⁴⁾	6,090 tons	44,178 tons	4,647 tons	5,338 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	13,469 tons	159,763 tons	14,592 tons	17,108 tons
By Pass MSW to Landfills	6,503 tons	84,598 tons	0 ton	0 ton

(1) MRF 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.

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 2017 totaling \$4,193,532.10 (a decrease of \$311,322.52 below the same quarter in 2016);
- Updated the Aging Report (30-day average arrearage was less than \$15,000 per month for the quarter);
- Reconciled April, May and June 2017 tons to monies posted in ERP, as well as to the total dollars charged in Paradigm;
- Processed all FY17 encumbrances and payments to meet year-end requirements;
- Began training for FY19 CIP;
- Encumbered approximately \$67.4 million, 54 requisitions, for FY18 purchase orders to meet July 1st start date; and
- Created DPO's for emergency refuse and recycling contracts in Area's 1 and 4.

CITIZEN COMMITTEES

Dickerson Area Facilities Implementation Group (DAFIG) – DAFIG met on Tuesday, June 13, 2017. Topics discussed included the following:

- Updated Environmental Monitoring and Health Risk Assessments
- December Fire Report and Response
- DEP Complaint Report
- Facilities Update
- Improved Community Notification Protocol

The next quarterly DAFIG meeting will be held on Tuesday, September 12, 2017.

Solid Waste Advisory Committee (SWAC)

April – Dr. Ray Liou provided an update on the County's most recent update to the Comprehensive 10-year Solid Waste Management Plan. SWAC expressed interest in getting involved in the development of the plan. Sara Bixby discussed the concept of the County developing Zero Waste Goals.

May – Meeting cancelled.

June – Meeting cancelled.

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 was not collected.

April 2017	459
April 2016	81
Difference	+378

May 2017	1642
May 2016	78
Difference	+1564

June 2017	528
June 2016	123
Difference	+405

Resident Service Requests:

April 2017

22 gallon bin pick-up	634
22 gallon bin request	1,886
Bulk trash requests	2,518
Cart pick-up	23
Cart repair	468
65 gallon cart	172
35 gallon cart	114
Field check	759
Literature	293
Property damage/missing	32
Same day	712
Scrap Metal request	2,226

May 2017

22 gallon bin pick-up	534
22 gallon bin request	2,150
Bulk trash requests	1,823
Cart pick-up	13
Cart repair	434
65 gallon cart	137
35 gallon cart	92
Field check	396
Literature	140
Property damage/missing	23
Same day	469
Scrap Metal request	1,372

June 2017

22 gallon bin pick-up	496
22 gallon bin request	1,881
Bulk trash requests	2,010
Cart pick-up	15
Cart repair	523
65 gallon cart	124
35 gallon cart	106
Field check	443
Literature	178
Property damage/missing	18
Same day	436
Scrap Metal request	1,518

Outreach:

Survey Cards:

The Public Service Workers distributed survey cards while performing recycling container deliveries/pick-ups or repairs. Figures in tables are percentages.

In **April**, 842 cards were dropped off with a return rate of 15%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	94%	4%	1%	1%	0%
County Provided Collection Services	84%	10%	5%	1%	0%

In **May**, 1,360 cards were dropped off with a return rate of 13%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	93%	4%	2%	0%	1%
County Provided Collection Services	82%	14%	2%	0%	2%

In **June**, 1,168 cards were dropped off with a return rate of 9%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	92%	4%	2%	0%	2%
County Provided Collection Services	68%	26%	2%	3%	1%

Collection Section Enforcement Actions:

April:

- Citations: There were no citations issued.
- Notices of Violation: There was one (1) Notice of Violation issued.
 - Found vehicle to be in an unsafe, physical, mechanical or unsanitary condition. 48-20d. (Real seal leak)

May:

- Citations: There were no citations issued.
- Notices of Violation: There was one (1) Notice of Violation issued.
 - Vehicle left unattended and running 48-23.

June:

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

Website:

Solid Waste Services Website

Metric	April 2017	May 2017	June 2017
Users	38,888	48,504	36,668
Sessions	59,944	75,015	57,726
Page Views	144,792	189,422	147,852

Email List Memberships

Topic	Subscribers (new this month)		
	April 2017	May 2017	June 2017
Holiday Reminder	23,838 (1)	23,895 (0)	23,848 (0)
Holiday Reminder (by route)	11,638 (170)	11,862 (267)	11,884 (107)
HHW Announcements	12,131 (1,751)	12,080 (0)	11,933 (0)
Facility Updates	8,565 (109)	8,629 (101)	8,647 (106)
Electronics recycling	12,759 (118)	12,806 (113)	12,832 (151)
Expanded Polystyrene Ban news and updates	508 (19)	528 (24)	545 (23)
Go Green	4,947 (1)	4,922 (0)	4,867 (0)
Civic Loop	4,293 (15)	4,293 (0)	4,255 (14)
SORRT Newsletter	3,731 (11)	3,738 (16)	3,721 (15)
TRRAC Newsletter	2,653 (232)	2,662 (18)	2,661 (14)
Quarterly Report	2,935 (19)	2,945 (25)	2,939 (22)
Paper Shredding Events	11,160 (91)	11,194 (128)	11,350 (228)
Recycling Volunteers - Active	253 (0)	253 (0)	253 (0)
Recycling Volunteers - Prospective	143 (0)	143 (0)	143 (0)
Learn about new web features	413 (14)	427 (17)	438 (17)
Total Subscriptions	99,967 (801)	100,203 (728)	99,864 (697)

Most Popular Web Pages

April 2017	May 2017	June 2017
1. Transfer Station detail page	Transfer Station detail page	Transfer Station detail page
2. How Do I recycle/dispose...- Home page	DSWS home page	How Do I recycle/dispose...- Home page
3. Recycling, Trash, and Yard Trim Programs - home	Collection Day Lookup	Recycling, Trash, and Yard Trim Programs - home
4. DSWS home page	Recycling, Trash, and Yard Trim Programs - home	Bulk trash pickup
5. Collection Day Lookup	How Do I recycle/dispose...- Home page	DSWS home page
6. Bulk trash	Holidays	Collection Day Lookup
7. Webstore – home page	Bulk trash pickup	Paper Shredding
8. Holidays	Webstore – home page	Webstore – Single-family recycling containers
9. Webstore – Single-family recycling containers	Request a ... - home page	Webstore – purchase
10. Paper Shredding	Collection Day Lookup	Webstore – Recycling bins and containers

ADDITIONAL RECYCLING

Product Recycled	April FY17	FY17 YTD	April FY16	April FY15
TV's and PC's	136 tons	1,247 tons	153 tons	119 tons
Propane Tanks	2 tons	32 tons	2 tons	2 tons
Textiles	5 tons	48 tons	12 tons	10 tons
Construction Materials (Don't Dump – Donate)	0 ton	3 tons	0 ton	0 ton
Vehicle Batteries	12 tons	87 tons	10 tons	10 tons
Scrap Metal	739 tons	6,679 tons	752 tons	486 tons

Product Recycled	May FY17	FY17 YTD	May FY16	May FY15
TV's and PC's	135 tons	1,382 tons	155 tons	142 tons
Propane Tanks	5 tons	37 tons	4 tons	2 tons
Textiles	9 tons	57 tons	6 tons	12 tons
Construction Materials (Don't Dump – Donate)	1 ton	4 tons	0 ton	1 ton
Vehicle Batteries	8 tons	95 tons	5 tons	7 tons
Scrap Metal	661 tons	7,340 tons	689 tons	544 tons

Product Recycled	Jun FY17	FY17 YTD	Jun FY16	Jun FY15
TV's and PC's	147 tons	1,529 tons	151 tons	203 tons
Propane Tanks	4 tons	41 tons	4 tons	6 tons
Textiles	7 tons	64 tons	0 ton	13 tons
Construction Materials (Don't Dump – Donate)	0 ton	4 tons	0 ton	3 tons
Vehicle Batteries	10 tons	105 tons	14 tons	14 tons
Scrap Metal	805 tons	8,145 tons	751 tons	574 tons

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste (HHW) Collection – There were a total of 33,477 patrons to the program in the fourth fiscal quarter (April, May, June). During normal business hours, we had 31,929 patrons; after 5:00 p.m., we had 1,548 patrons.

Small Quantity Generator/ECOWISE Program – There were 51 ECOWISE participants in the fourth quarter that discarded 6.17 tons of business related hazardous materials during the quarter.

WASTE REDUCTION

Bicycle Recycling – “Bikes for the World” removed 8 tons of bikes in the fourth fiscal quarter for shipment to countries worldwide.

Paint Reduction – The free paint giveaway program, through the County paint store’s reuse program, reopened on April 1, 2017 and resulted in 782 gallons of latex paint being given to 57 residents. More than 41 tons of latex paint was donated to nonprofit organizations. Paint that does not be reused or donated is solidified and further processed which resulted in more than 11,500 gallons 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. In the fourth fiscal quarter, 11 tons of WVO were shipped out for processing into biodiesel.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility (RRF): CEMS Tracking of RRF Emissions – There was no exceedence of air permit limits on stack emissions during the quarter.

TES Contract (Weather Station) – All the instrumentation worked normally this quarter. Data recovery for all parameters was 100 percent. Precipitation for the month of April was 2.96 inches, 5.17 inches in May and 1.79 inches in June.

WASTE REDUCTION AND RECYCLING

Public Education and Outreach – Staff from the Waste Reduction and Recycling Section and Recycling Program Volunteers actively participated in many activities, events, and training sessions during Earth Month (April) and throughout the spring. This included a total of 33 community education and outreach events and activities reaching an estimated audience of 6,487 people. DEP conducted two paper shredding events this spring: April 2 at Damascus High School and May 13 at Northwest High School. During these two events, we served a total of 1,372 vehicles, collected 53,760 pounds (26.9 tons) of confidential paper for shredding and recycling as well as 4,360 pounds (2.2 tons) of cardboard boxes for recycling. In addition, residents donated usable clothing and other quality household items to fill almost 1¼ box trucks for reuse donation benefitting several charitable organizations in the County. The third event scheduled for Paint Branch High School on June 3 was canceled due to a scheduling conflict at the school. Due to the short notice regarding the cancellation, DEP sent information via the confidential paper shredding event notification listserv (11,402 email addresses), posted notification on the DEP and DSWS websites, coordinated with the Public Information Office and had a staff

member on-site to talk to any residents who showed up without realizing that the event had been cancelled. A total of 52 cars arrived on the day the event was scheduled for and were provided with information pertaining to other opportunities for confidential paper shredding services. On **June 24**, DEP partnered with NBC4 for their Community Paper Shredding and Recycling event held at Montgomery College - Rockville Campus. During the 3-hour event, we served 2,309 cars, collected 99,035 lbs. (49.5 tons) of paper for shredding and recycling, and collected 4,120 lbs. (2.06 tons) of cardboard for recycling. Overall, 52 tons of shredded paper and cardboard was recycled from this event. The highlight of the spring was the 18th Annual Montgomery County Recycling Awareness Week (May 22 through May 26, 2017). DEP provided an educational program for twelve private schools, to motivate students to reduce, reuse and recycle to keep our land, air and water clean. On **May 24**, County Executive Isiah Leggett, Council Member Craig Rice, and DEP Director Lisa Feldt congratulated the recipients of 18th Annual Recycling Achievement Recognition awards for their efforts to reduce, reuse and recycle, and educate their communities, multi-family properties and businesses. On **June 27**, County Executive Leggett and DEP Director Lisa Feldt held an open house event at the County's mixed paper recycling sorting facility at the Recycling Center. Mr. Leggett placed a container full of mixed paper items, including cardboard, onto the paper sorting conveyor belt for processing and separation. DEP provided on-site technical assistance and loaned event organizers hundreds of Clear Stream event recycling containers for use during the 2017 Quicken Loans National golf tournament at TPC Potomac at Avenel Farm (June 26-July 2, 2017). Staff rotated on shifts from 6 a.m. to 7 p.m. daily to monitor the on-site recycling and refuse collection containers and provide technical guidance to address issues that arose during the tournament. During the spring, staff continued to answer questions from businesses and residents about the ban on the use and sale of expanded polystyrene food service products and packaging peanuts; responded to one (1) request for information; and forwarded 11 complaints regarding the use of expanded polystyrene food service products to the Recycling Investigators for follow-up and investigation. An informational fact sheet on the ban, posted on the DEP website, continues to be distributed at events and during on-site visits to businesses conducted by SORRT (Smart Organizations Reduce and Recycle Tons) Program staff and Recycling Investigators. Staff also continued to provide information to residents, multi-family properties and businesses on what they can do to reduce the risk for trash fires. Updates were made to the DEP website. Information was provided at community education events in the spring, as well as highlighted during two Multi-Family Waste Reduction and Recycling seminars and two Business Waste Reduction and Recycling seminars held this spring. Staff continued to increase the use of social media (Twitter, Facebook and Blogs) to share information about events and activities taking place in the County. On June 27, staff participated in an on-air interview on Montgomery Al Dia on Radio America, reminding listeners to reduce waste and recycle everything that can be recycled to make progress towards the County's 70 percent recycling goal.

On-Site Composting and Waste Reduction Activities – A total of 1,076 backyard compost bins were distributed to encourage residents to compost their leaves and grass

clippings on-site, in a continuing effort to reduce the amount of yard trim materials that require processing by the County. Staff and recycling volunteers participated in four (4) composting workshop events and spoke to 312 people, providing detailed information on backyard and on-site composting. There are currently 21 compost bin pick-up locations throughout the County, several of which offer evening and weekend hours, where residents can obtain a compost bin. Staff received and fulfilled 30 requests for additional compost bins for the various distribution sites to ensure an adequate supply of compost bins are available for County residents. Staff also responded to sixteen requests for information or materials related to backyard composting/grasscycling during this quarter.

Recycling Investigations Unit – Since the unit was established in 2005, 76,192 site visits and 7,531 formal investigations have been conducted. For this period, 165 NOVs were issued to businesses and multi-family properties for infringements against the recycling regulations and Chapter 48. A total of 29 citations were issued to businesses and multi-family properties for the following reasons: eleven (11) citations were issued to businesses for failure to recycle required recyclable materials; one (1) citations issued to businesses for failure to provide containers for required recyclable materials; one (1) citation issued to a multi-family property for failure to provide containers for required recyclable materials; one (1) citation issued to a business for failure to provide recycling collection service and storage space to their tenants; five (5) citations were issued to businesses for failure to properly maintain the premises by permitting solid waste to be stored outside of approved containers; one (1) citation issued to a multi-family property for failure to properly maintain the premises by permitting solid waste to be stored outside of approved containers; two (2) citations issued to businesses for failure to provide and maintain an approved container for the storage of solid waste; four (4) citations were issued to businesses for failure to file an annual business waste reduction and recycling report; two (2) citations were issued to multi-family properties for failure to file an annual multi-family waste reduction and recycling report; and one (1) citation was issued to a business for using non-recyclable or non-compostable disposable food service ware.

Commercial Recycling and Waste Reduction – Staff of the SORRT (Smart Organizations Reduce and Recycle Tons) Program conducted 1,787 site visits to businesses. Staff resolved 11 complaints, participated in 55 educational events reaching 4,801 people, distributed 1,104 desk-side recycling bins and 653 “slim jim” recycling containers to businesses to help set-up and/or improve existing recycling programs. Staff responded to 175 requests for information ranging from educational materials to presentations for property managers, tenants, and employees. DEP conducted its third annual school recycling poster contest entitled “Recycle Everywhere for Clean Land, Air and Water”. 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 twelve 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 reusable lunch box that featured their artwork. Two (2) Business Waste Reduction and Recycling Seminars were conducted this

spring: on April 6 at the Gaithersburg Marriott Washingtonian Center and on June 21 at the Cambria Suites in Rockville. The seminars provided business owners, managers, employees and property management staff with information on the County's business recycling and solid waste regulations, roles and responsibilities, and ensured their recycling programs are successful. A total of 29 businesses/organizations participated in the seminars. The SORRT Program received a total of 583 annual business waste reduction and recycling reports covering Calendar Year 2016. 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 – During this quarter, staff from the TRRAC (Think, Reduce and Recycle at Apartments and Condominium) Program conducted 676 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 13 multi-family property educational events, reaching 512 people. These events included community recycling displays and several resident recycling presentations, staff trainings, resident board meetings, lobby events, seminars and webinars. Staff also responded to 114 requests for information and resolved 12 complaints. In addition, staff distributed the following recycling containers to ensure residents and staff have adequate capacity to recycle everything that can be recycled at their property: 2,858 baby blue (6-gallon) multi-family recycling bins; 17 Slim Jim (23-gallon) recycling containers; 43 WasteWatcher XL (32-gallon) recycling containers; and 31 Glutton (56-gallon) recycling containers. An email notice and a postcard invitation were sent to 687 property managers announcing the Multi-Family Recycling and Waste Reduction Seminar, which was held on May 4 at the Bethesda Marriott. Twenty-two (22) multi-family property managers and staff attended this event. All multi-family properties submitted their Calendar Year 2016 annual recycling and waste reduction reports (688 total reports received). TRRAC staff are in the process of conducting field verifications of all multi-family annual recycling reports to ensure the accuracy of the information submitted.

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.

Volunteer Activities – A total of 76 Recycling Program Volunteers, some participating in multiple events, contributed almost 344 hours of their time and effort to support waste reduction, reuse and recycling activities this quarter. Two (2) volunteers provided over 54 hours of office assistance which included filing, preparing bundles of educational materials for distribution at various outreach events, as well as other administrative tasks. Eight (8) volunteers participated in five (5) community outreach events and provided almost 44 hours of direct service to disseminate information on waste reduction, reuse, recycling and composting to residents. These events included: Rockville Science Day, Earth Day at Brookside Garden, Grow It Eat It, Long Branch Community Unity Festival, and Ross Boddy Recreation Center Family Day. In addition, 18 volunteers contributed

almost 69 hours of service during the paper shredding/recycling and reuse collection events on April 2 and May 13. Thirty-three (33) volunteers contributed over 145 hours of service during the NBC4 Community Paper Shredding and Recycling event held on June 24 at Montgomery College. The recycling volunteers were provided with safety equipment and received on-site training prior to them assisting with unloading confidential paper, breaking down cardboard boxes for recycling, as well as other duties. Three (3) Neighborhood Block and Building Recycling Captain volunteers contributed five (5) hours of service providing outreach and education about waste reduction, reuse, recycling and backyard composting to neighbors, and distributed recycling information to 87 homes. Also, nine (9) volunteers contributed almost 27 hours of time assisting staff by preparing craft supplies to be used during the upcoming Montgomery County Agricultural Fair (August 11-19, 2017) as well as other outreach events. On Earth Day, April 22, DEP recognized the efforts of our recycling volunteers during the annual Recycling Volunteer Appreciation and Recognition Ceremony. The recycling volunteers were invited to an Earth Day cookout and were given certificates of appreciation and recognition for their service and on-going support. Several recycling volunteers received special recognition for providing 20 hours or more of service during the past year. Volunteer recruitment efforts continued during this quarter with the recycling volunteer program recruiting seven (7) new volunteers and 11 volunteer applicants. In addition, seven (7) volunteers attended a new volunteer orientation session and received information about the County's recycling and solid waste programs and services. There are 388 active recycling program volunteers as of June 30, 2017.

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. Regal Paints, one of the original participants in the cooperative collection project, closed at the end of June 2017. The only remaining original business in the project, Plaza Arts, continues to hold the contract and remains open to sharing the containers with other new businesses if the opportunity arises. Currently, two of the other newer businesses in the area are sharing recycling and refuse collection services.

EOB Cafeteria Food Scrap Recycling Model Project – DEP continued to monitor the model food scrap recycling collection project for the EOB cafeteria. For the project to-date (November 1, 2011 – June 30, 2017) in which pre-consumer food scraps are separated for recycling collection, a total of 111.7 tons of food waste has been collected and recycled. DEP continues to monitor the collection area daily and checks for feedback from cafeteria staff on a regular basis. Also, Staff monitored the food scrap recycling collection containers for the cafeterias at the Council Office Building and the Public Safety Headquarters Building. Additional quantities of compostable/biodegradable bags were distributed to all three locations.

FACILITY ACTIVITIES

Resource Recovery Facility (RRF) – Resource Recovery Facility (RRF) – The RRF processed a total of 145,064 tons this quarter, an average of 1,594 tons per day. During the quarter, eight (8) tours of the plant were given. The plant exported 78,762,000 kilowatt-hours to the power grid. About 2,135 tons of ferrous material was recovered from the ash and recycled.

Processing tons were down during the quarter as compared to previous years as the plant goes through extended outages to perform major equipment replacements and repairs. Scheduled outages and tighter controls on waste storage capacity at the plant made it necessary to bypass 19,074 tons of waste.

During this timeframe, the units were down to repair grate bars, tube leaks, drain line leaks, and a combustion air fan bearing. In addition, the turbine tripped and the plant had to purchase 35 MWh of electricity because the newly rebuilt Uninterrupted Power Supply (UPS) equipment was too sensitive and went into a bypass mode.

At the start of the quarter, Unit #3 was in a major outage. Baghouse screws, baghouse hoppers, and ash discharge systems were replaced. Later, Unit #2 was taken offline for a major outage. Work included replating the feed hopper and replacing the feed chute and feed table, replacing superheater pendants, replacing ash screw conveyors, replacing baghouse hoppers, reverse air fan, inlet dampers, and expansion joints; replacing the induced draft fan; replacing the combustion air fan shaft, damper and rotor.

Materials Recovery Facility (MRF) – During the fourth quarter, construction of the new fiber processing line at the MRF continued. Commencing in late August the project continued through the end of March, with full operations beginning May 1, 2017. The new fiber processing systems will result in more than 50,000 tons of cardboard and fiber-related material processing internally rather than the exportation process that occurred historically.

MRF production resulted in the processing of more than 7,787 tons of incoming commingled recyclable material and more than 3,663.01 tons of cardboard, mixed paper, and other fiber-related materials being exported to vendors under contractual agreements. Since fiber sorting operations began May 1, 2017, more than 8,509 tons of fiber related materials such as cardboard and mixed paper were processed through the new systems as part of our acceptance and testing phase of the project.

During regular and preventative maintenance programs, the following maintenance items were addressed: three conveyor belts were replaced due to wear or damage; ten pulleys, two rollers, and four sets of bearings were replaced; rubber cutting edge was replaced on the 938 and Komatsu loaders; both pit conveyors were cleaned and excess liquid material vacuumed out; and general repair and maintenance was performed on all

processing equipment and rolling stock. Installation of the 27-year old air-conditioning, heating, and air-handling system began the process of replacing the main unit, circuit boards, processors, and thermostats that were no longer technologically repairable and to comply with existing environmental regulations. A complete rebuild of one of our main comingled conveyors was conducted to extend the life of the existing commingled processing equipment.

Oaks Landfill

Power Plant Update - The 2.4 Megawatt landfill gas-to-energy (LFGE) facility continues to operate. However, capacity wise gas quality (low methane quantity) issues are hampering the electricity generation since July 2016. The gas to energy contractor (CB&I) is proposing to install three more vertical gas extraction wells in gas-rich areas to improve gas quality.

CB&I completed the gas sampling around the landfill for the fourth quarter gas monitoring events in June, and no exceedances were noted.

Fire extinguishing water [fire flow] held at the Oaks Sanitary Landfill Leachate Pretreatment Plant from the Montgomery County Resource Recovery Facility fire of December 2016 has been treated and has been completely removed, hauled and discharged at the Transfer Station. Holding lagoon 2 North has been cleaned and is currently off-line from landfill operations in a clean standby surplus storage mode. Normal landfill leachate treatment and hauling of the pre-treated leachate to the Transfer Station discharge point continues unremarkably.

Gude Landfill – The 0.8 MW Megawatt landfill gas-to-energy (LFGE) facility discontinued operations on June 1, 2017.

The methane gas monitoring wells on the northwest boundary of the Landfill adjacent to the gas line right-of-way and the Derwood Station community have been largely in compliance. However, Probe #4 and #5 are having occasional exceedances issues after the shutdown of gas to energy plant. Adjusting the nearby extraction wells vacuum the exceedances are mitigated. There have been continued exceedances with newly installed Probe #18 as it is drilled through the buried waste. From the analysis of gas samples collected at Probe #28, the presence of swamp gas or natural gas is confirmed.

CB&I completed the gas sampling around the landfill for the first quarter gas monitoring event in June, and only a few exceedances were noted from probe #18 and #28. As stated in the above paragraph, these are being addressed by the contractor.

The monthly meetings, between GLCC (i.e. the community) and DEP was conducted in April, May, and June, at the Transfer Station. The meetings will continue throughout the remediation process. Written updates will be provided during months when there is insufficient new information to justify a meeting.

A new weather station is installed on the south side of landfill to collect yearlong weather data that can be used in the planning of the construction phases for toupee cap. Real time Weather data will be linked to the remediation web site.

Beantown Dump Project – This project involves reducing the presence of methane gas at the former Beantown Dump near the intersection of Gude Drive and Dover Road.

DEP completed the quarterly gas monitoring in May 2017. Results indicated reduced methane concentrations at the old dump site, after Phase I, Passive Venting Monitoring, well enhancements. However, results also indicated the exceedances only in five probes. Due to the reduced exceedances DEP is considering to continue the monitoring for the next three quarters and will decide the future course of action.

Solid Waste Transfer Station – Covanta shipped 144,029 tons of processible waste via rail from the Transfer Station for the fourth quarter of FY17 compared to 167,066 for the same period last year.

The inbound radiation detectors had 40 total alarms this quarter – 25 alarms by vehicles whose loads were identified as containing low levels of medical isotopes with short half-lives in trash; the Public Unloading Facility radiation detectors had 13 alarms; one load was rejected; and one false alarm. All alarms involved drivers or passengers who had undergone recent medical tests and/or treatment involving radioactive isotopes and residual radiation.

Transfer Station Enforcement – Under Chapter 48 of the Montgomery County Code, a total of 150 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>	10	0	0	10
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	1	1	2
48-19(a)(2)(a)	<i>Improper or no tarps on resident vehicle</i>	87	3	1	91
48-19(a)(2)(b)	<i>Transporting solid waste without a canvas or tarp covering the load tightly Commercial</i>	8	6	3	17
48-19(a)(3)	<i>Person cannot engage in business of collecting or transporting solid waste without obtaining a license</i>	0	0	3	3
48-20(a)	<i>Un-permitted Vehicle of a Licensed Company</i>	0	2	16	18
48-20(d)	<i>Unsafe Vehicle</i>	0	0	0	0
48-22	<i>Permit Required for Transporting trash from Out of State into County</i>	0	0	0	0
48-24(c)	<i>Container Standards must be maintained</i>	0	0	1	1
48-48(a)	<i>Compliance of Recycling by Generators</i>	0	0	0	0
48-48(a)	<i>Recycle compliance by Recycler</i>	0	0	2	2
48-48(b)	<i>Compliance by Hauler/Collector</i>	0	0	6	6
	TOTALS	105	12	33	150

Site 2 Landfill Properties – The Department of General Services, Real Estate section leased the barn on the Draper property to a new tenant. Staff inspected the vacated Draper farm house to assess any needed work prior to renting the house again. Staff performed its annual inspection of the properties. Repairs to the roof of the small brick shelter by the Draper barn were completed.

Yard Trim Compost Facility – The facility received 15,774 tons of material for composting this quarter; this compares with 15,751 tons of materials received during the same period last year. No material was diverted to back-up composting facilities this quarter. There were 13,512 cubic yards of bulk LeafGro™ shipped this quarter; compared with 11,705 cubic yards for the same period last year. (sold out of material early).

Bagging Operation – 128,200 bags of LeafGro™ were shipped to distributors this quarter. This compares with 200,300 bags shipped during the same period last year. (Each bag is 1.5 cubic feet weighing 45 lbs.)

OUT-OF-COUNTY HAUL

Old Dominion, Richmond, VA – In this quarter, approximately 41,184 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.

Honeygo Run Reclamation, Perry Hall, Maryland – Approximately 3,147 tons of non-processibles were sent to the Honeygo Run Reclamation site in Perry Hall, Maryland, for construction and demolition debris recycling or disposal.

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)
Materials Recovery Facility	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	625,407 (CY15)
Latest Recycling and Waste Diversion Rate Reported in Montgomery County	61.01% (CY15)
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 Agreement	91,714
# Residences receiving collection of recyclables in blue bins and yard trim collection	216,914
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2017 including an approval option for a five-year renewal. (Service started October 20, 1997.)

GLOSSARY OF ACRONYMS

BTU	British Thermal Unit
CB&I	Chicago Bridge and Iron Company
CEMS	Continuous Emissions Monitoring System
DAFIG	Dickerson Area Facilities Implementation Group
DEP	Department of Environmental Protection
DSWS	Division of Solid Waste Services
ERM	Environmental Resources Management
ERP	Enterprise Resource Planning
FY	Fiscal Year
GLCC	Gude Landfill Concerned Citizens
HHW	Household Hazardous Waste
kWh	Kilowatt-hours
LFGE	Landfill Gas-to-Energy
MES	Maryland Environmental Services
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NOV	Notice of Violation
RRF	Resource Recovery Facility
SCS	SCS Engineers
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
UPS	Uninterrupted Power Supply
VOCs	Volatile Organic Compounds
WVO	Waste Vegetable Oil
YTD	Year-To-Date