



DEPARTMENT OF
**ENVIRONMENTAL
PROTECTION**



Montgomery County, Maryland
DIVISION OF SOLID WASTE SERVICES

QUARTERLY REPORT

OCTOBER, NOVEMBER, AND DECEMBER 2016
(2ND Quarter of FY17)



Picking Christmas trees out of compostable materials. This separation allows the trees to be ground into mulch, and the other yard debris to be composted for higher value.

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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the months of October, November, and December 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	Oct FY17	FY17 YTD	Oct FY16	Oct FY15
Materials Recovery Facility ⁽¹⁾	5,645 tons	23,859 tons	5,872 tons	6,274 tons
Other Landfill Facilities	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	44,735 tons	185,899 tons	49,864 tons	49,361 tons
Yard Trim Compost Facility	6,789 tons	17,024 tons	3,974 tons	4,765 tons
Honeygo Run Reclamation ⁽³⁾	1,936 tons	6,471 tons	416 tons	293 tons
Other Rubble and Soil Recycling ⁽⁴⁾	3,221 tons	19,757 tons	4,673 tons	1,989 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	14,169 tons	57,728 tons	16,408 tons	15,401 tons
By Pass MSW to Landfills	10,172 tons	39,921 tons	0 ton	0 ton

FACILITY	Nov FY17	FY17 YTD	Nov FY16	Nov FY15
Materials Recovery Facility ⁽¹⁾	6,070 tons	29,929 tons	6,042 tons	5,749 tons
Other Landfill Facilities	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽²⁾	45,021 tons	230,920 tons	50,760 tons	47,431 tons
Yard Trim Compost Facility	12,169 tons	29,193 tons	16,105 tons	12,695 tons
Honeygo Run Reclamation ⁽³⁾	1,437 tons	7,908 tons	475 tons	58 tons
Other Rubble and Soil Recycling ⁽⁴⁾	1,557 tons	21,314 tons	1,351 tons	1,817 tons
Ash Recycling (Old Dominion LF) ⁽⁵⁾	14,395 tons	72,123 tons	13,948 tons	13,522 tons
By Pass MSW to Landfills	5,929 tons	45,850 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	Dec FY17	FY17 YTD	Dec FY16	Dec FY15
Materials Recovery Facility ⁽¹⁾	6,811 tons	36,739 tons	7,188 tons	7,441 tons
Other Landfill Facilities	0 ton	0 ton	0 ton	0 ton
Resource Recovery Facility ⁽³⁾	25,587 tons	256,507 tons	54,728 tons	48,450 tons
Yard Trim Compost Facility	8,166 tons	37,359 tons	14,404 tons	15,116 tons
Honeygo Run Reclamation ⁽⁴⁾	568 tons	8,476 tons	543 tons	0 ton
Other Rubble and Soil Recycling ⁽⁵⁾	1,043 tons	22,357 tons	851 tons	1,635 tons
Ash Recycling (Old Dominion LF) ⁽⁶⁾	11,455 tons	83,578 tons	15,039 tons	13,922 tons
By Pass MSW to Landfills	11,820 tons	57,670 tons	0 ton	0 ton

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(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 October, November, and December program staff:

- Researched properties and entered billing changes into the database;
- Prepared monthly house counts for collection contractors;
- Processed vacancy refunds payable in October, November, and December;
- 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 October, November, and December 2016 totaling \$3,314,872.86 (a decrease of \$804,464.14 below the same quarter in 2015);
- Updated the Aging Report (30-day average arrearage was less than \$10,000 per month for the quarter);
- Reconciled October, November, and December 2016 tons to monies posted in ERP, as well as to the total dollars charged in Paradigm;
- Submitted FY18 Solid Waste Operating budget to OMB;
- Updated the County Stat and Performance Measures data; and
- Performed FY17 2nd Quarter Analysis.

CITIZEN COMMITTEES

Dickerson Area Facilities Implementation Group (DAFIG) – DAFIG met on Tuesday, December 13, 2016. Topics discussed included the following:

- Planning for FY18 Environmental Monitoring
- DEP Complaint Report
- Facilities Update

The next quarterly DAFIG meeting will be held on March 14, 2017.

Solid Waste Advisory Committee (SWAC)

October – SWAC expressed an interest in playing a role in DEP’s plans to procure capacity for food scrap recycling. Sara Ducey elected Chair; Jessica Weiss elected Vice-Chair for the 2017 term.

November – Annual presentations by DSWS Section Chiefs.

December – Vacation. No meeting.

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.

October 2016	121
October 2015	82
Difference	+ 39

November 2016	114
November 2015	58
Difference	+ 56

December 2016	251
December 2015	73
Difference	+178

Resident Service Requests:

October 2016

22 gallon bin pick-up	432
22 gallon bin request	1,437
Bulk trash requests	2,242
Cart pick-up	12
Cart repair	324
65 gallon cart	123
35 gallon cart	102
Field check	340
Literature	214
Property damage/missing	16
Same day	377
Scrap Metal request	1,816

November 2016

22 gallon bin pick-up	412
22 gallon bin request	1,390
Bulk trash requests	2,150
Cart pick-up	18
Cart repair	353
65 gallon cart	152
35 gallon cart	88
Field check	272
Literature	154
Property damage/missing	19
Same day	323
Scrap Metal request	1,766

December 2016

22 gallon bin pick-up	416
22 gallon bin request	1,693
Bulk trash requests	2,158
Cart pick-up	8
Cart repair	412
65 gallon cart	145
35 gallon cart	102
Field check	461
Literature	105
Property damage/missing	29
Same day	395
Scrap Metal request	1,696

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 **October**, 1,135 cards were dropped off with a return rate of 8%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	99%	1%	0%	0%	0%
County Provided Collection Services	82%	17%	1	0%	0%

In **November**, 957 cards were dropped off with a return rate of 10%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	94%	5%	1%	0%	0%
County Provided Collection Services	80%	14%	5%	1%	0%

In **December**, 930 cards were dropped off with a return rate of 9%.

	Excellent	Good	Average	Fair	Poor
Service Request Fulfillment	96%	4%	0%	0%	0%
County Provided Collection Services	90%	9%	1%	0%	0%

Collection Section Enforcement Actions:

October:

- Citations: There were no citations issued.
- Notices of Violation: There was one (1) Notice of Violation issued.
 - Collected solid waste within the County without a valid collector's tag 48-20a.

November:

- Citations: There was one citation issued.
 - Collected solid waste after 9 p.m. and before 7 a.m. within 500 feet of a Residential structure 48-21b.
- Notice of Violation: There was one (1) Notice of Violation issued.
 - Left collection vehicle running and unattended 48-23.

December:

- Citations: There was one citation issued.
 - Collected solid waste after 9 p.m. and before 7 a.m. within 500 feet of a Residential structure 48-21b.
- Notice of Violation: There were no NOVs issued.

Website:

Solid Waste Services Website

Metric	October 2016	November 2016	December 2016
Users	38,677	35,465	54,052
Sessions	54,970	53,268	81,525
Page Views	117,660	120,416	191,926

Email List Memberships

Topic	Subscribers (new this month)		
	October 2016	November 2016	December 2016
Holiday Reminder	24,826 (0)	24,708 (0)	24,025 (0)
Holiday Reminder (by route)	6,617 (500)	7,270 (661)	9,843 (2,615)
HHW Announcements	10,515 (0)	10,492 (0)	10,450 (0)
Facility Updates	7,962 (100)	8,023 (86)	8,136 (147)
Electronics recycling	12,046 (142)	12,141 (125)	12,258 (167)
Expanded Polystyrene Ban news and updates	363 (13)	382 (21)	422 (44)
Go Green	5,012 (0)	8,023 (86)	4,979 (0)
Civic Loop	4,242 (12)	4,243 (15)	4,250 (28)
SORRT Newsletter	3,681 (12)	3,660 (14)	498 (0)
TRRAC Newsletter	2,370 (10)	2,361 (29)	2,385 (27)
Quarterly Report	2,829 (21)	2,375 (15)	2,389 (26)
Paper Shredding Events	10,173 (198)	10,311 (159)	10,473 (199)
Recycling Volunteers – Active	243 (0)	253 (14)	253 (0)
Recycling Volunteers – Prospective	144 (0)	143 (0)	143 (0)
Learn about new web features	296 (10)	313 (18)	342 (32)
Total Subscriptions	91,319 (1,018)	94,698 (1,243)	90,846 (3,285)

Most Popular Web Pages

October 2016	November 2016	December 2016
1. Transfer Station – detail page	Transfer Station – detail page	Holidays
2. Holidays	Collection Day Lookup	Transfer Station – detail page
3. Collection Day Lookup	Holidays	Collection Day Lookup
4. Recycling, Trash, and Yard Trim Programs - home	Recycling, Trash, and Yard Trim Programs - home	Holiday List Subscribe
5. DSWS home page	DSWS home page	Recycling, Trash, and Yard Trim Programs - home
6. Bulk trash	How Do I Recycle/Dispose...- home page	DSWS home page
7. Webstore – home page	Bulk trash	How Do I Recycle/Dispose... - home page
8. Webstore – Single-family recycling containers	Webstore – home	Bulk trash
9. Transfer Station – home page	Webstore – 22-gal blue bin	Webstore – home
10. Paper Shredding events	Transfer Station – home page	Webstore – Single-family recycling containers

ADDITIONAL RECYCLING

Product Recycled	Oct FY17	FY17 YTD	Oct FY16	Oct FY15
TV's and PC's	124 tons	586 tons	106 tons	164 tons
Propane Tanks	2 tons	11 tons	2 tons	3 tons
Textiles	5 ton	14 tons	11 tons	11 tons
Construction Materials (Don't Dump – Donate)	1 ton	1 ton	0 ton	0 ton
Vehicle Batteries	9 tons	43 tons	6 tons	7 tons
Scrap Metal	621 tons	2,999 tons	451 tons	431 tons

Product Recycled	Nov FY17	FY17 YTD	Nov FY16	Nov FY15
TV's and PC's	130 tons	716 tons	133 tons	148 tons
Propane Tanks	2 tons	13 tons	2 tons	2 tons
Textiles	7 tons	21 tons	12 tons	6 tons
Construction Materials (Don't Dump – Donate)	1 ton	2 tons	1 ton	0 ton
Vehicle Batteries	9 tons	52 tons	12 tons	8 tons
Scrap Metal	600 tons	3,599 tons	432 tons	350 tons

Product Recycled	Dec FY17	FY17 YTD	Dec FY16	Dec FY15
TV's and PC's	36 tons	752 tons	124 tons	164 tons
Propane Tanks	3 tons	16 tons	2 tons	2 tons
Textiles	5 tons	26 tons	10 tons	11 tons
Construction Materials (Don't Dump – Donate)	0 ton	2 tons	3 tons	1 ton
Vehicle Batteries	7 tons	59 tons	4 tons	7 tons
Scrap Metal	518 tons	4,117 tons	475 tons	368 tons

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste (HHW) Collection – There were a total of 23,077 patrons to the program in the second quarter (October, November, and December). During normal business hours we had 22,133 patrons; after 5 p.m., we had 944 patrons.

Small Quantity Generator/ECOWISE Program – There were 52 ECOWISE participants in the second quarter that discarded 2.21 tons of business related hazardous materials.

WASTE REDUCTION

Bicycle Recycling – Several nonprofit organizations removed .37 tons of bikes in the second fiscal quarter for shipment to countries worldwide.

Paint Reduction – The free paint giveaway program through the County paint store reuse program ended on October 31; however, more than 76 gallons of latex paint given to 5 County residents and more than 42.70 tons was donated to nonprofit organizations. Paint that does not have the ability to be reused or donated was solidified and further processed which resulted in more than 4,696 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 bio-diesel production. In the second 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 – There was no exceedence of air permit limits on stack emissions during the quarter. However, MDE has issued a Site Complaint referencing air pollution caused by the pit fire that took place in December.

TES Contract (Weather Station) – All of the instrumentation worked normally this quarter. Data recovery for all parameters was 100 percent. Precipitation for the month of October was .31, November was 2.33 inches and December was 2.34 inches.

WASTE REDUCTION AND RECYCLING

Public Education and Outreach – Staff from the Waste Reduction and Recycling Section and Recycling Program Volunteers participated in a total of 19 community education and outreach events and activities between October 1, 2016 and December 31, 2016, reaching an estimated audience of 4,620 people. 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 and responded to ten (10) requests for information. SORRT (Smart Organizations Reduce and Recycle Tons) Program staff and Recycling Investigators continue to distribute the informational fact sheet on the ban (which is also posted on the DSWS website) at events and during on-site visits conducted to businesses. Staff updated the listing of vendors that sell recyclable or compostable food service ware (also posted on the DEP website) with additional vendors prior to the January 1, 2017 requirement that all disposable food service ware provided must be recyclable or compostable. During October, staff

coordinated with the Board of Elections to ensure that all polling sites for the 2016 General Election had an appropriate number of recycling containers in place, and all election volunteers were aware of the on-site recycling procedures at each polling site. Staff visited the 10 early voting sites and the 50+ polling sites located in non-County facilities. DEP provided a limited quantity of recycling containers to ensure all volunteers and voters had the ability to recycle mixed paper and commingled materials on-site on Election Day. In addition, DEP contacted Montgomery County Public School (MCPS) staff to ensure each of the 171 polling sites located on MCPS property had voter-accessible recycling on-site for Election Day. Staff participated in several public affairs programs on radio and television to encourage residents and businesses to reduce waste during the holiday season and to recycle everything that can be recycled. These programs included reports on WHAG-TV, Montgomery Al Dia, Montgomery Mosaics on WOL 1540AM and Radio One.

On-Site Composting and Waste Reduction Activities – A total of 396 backyard compost bins were distributed between October 1, 2016 and December 31, 2016 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. DEP responded to eight (8) requests for information and educational materials pertaining to backyard composting and grasscycling. Staff and recycling program volunteers distributed compost bins at four (4) events this quarter which included: Olney Community Night, Greenbriar Local Park Grand Opening, and at both educational events at Habitat for Humanity Restore locations in Rockville and Silver Spring. Staff maintained contact with each of the 21 compost bin distribution sites to ensure each site had an adequate supply of compost bins for residents to pick up, and completed 20 requests for compost bin deliveries to these distribution sites.

Recycling Investigations Unit – Since the unit was established in 2005, 73,056 site visits and 7,133 formal investigations have been conducted. During this quarter, 149 NOV's were issued to businesses and multi-family properties for infringements against the recycling regulations and Chapter 48. A total of 16 citations were issued to businesses and multi-family properties for the following reasons: nine (9) citations were issued to businesses for failure to recycle required recyclable materials; one (1) citation was issued to a multi-family property for failure to provide containers for required recyclable materials; four (4) citations were issued for failure to properly maintain the premises by permitting solid waste to be stored outside of approved containers (two of which were issued to businesses and two to multi-family properties); one (1) citation was issued to a collector for failure to collect and deliver to a recycling facility materials that were source separated from the solid waste stream; and one (1) citation was issued to a collector for depositing solid waste on someone else's property without written consent.

Commercial Recycling and Waste – Staff of the SORRT Program conducted 1,654 site visits to businesses this quarter. Staff resolved seven (7) complaints, participated in 20 educational events reaching 974 people, distributed 736 desk-side (7-gallon) recycling bins and 262 Slim Jim (23-gallon) recycling containers to businesses to help set-up and/or improve existing recycling programs. Staff also responded to 285 requests for

information ranging from educational materials to presentations for property managers, tenants, and employees. On November 18, staff participated in the 3rd Biotech Roundtable hosted by MedImmune. The roundtable gathered several biotech business representatives from the DC Metro area to identify common issues regarding disposal and recycling of certain types of waste generated by the biotech community. The representatives agreed to continue their meetings in 2017 to further explore the issues discussed. The SORRT Program hosted quarterly Recycling Oversight Committee (ROC) meeting for representatives from local, State and Federal government agencies on October 17 and December 3. The meetings provide an opportunity to share information pertaining to the County's business recycling requirements and discuss experiences and ideas to help participants improve their recycling efforts. Staff emailed notifications regarding the CY2016 Annual Business Recycling and Waste Reduction Report to 583 businesses and commercial properties, with only six copies of the report being sent via US Postal Service to businesses. All large-sized businesses are required to file their annual recycling report by February 1, 2017, and all medium-sized businesses and selected small businesses, as well as property owners of multi-tenant commercial properties are required to file their reports by March 1, 2017. A webinar educating businesses on how to use the online annual recycling reporting system was held on November 30 with 23 businesses participating in the webinar. A second webinar is scheduled for January 11, 2017.

Multi-Family Recycling and Waste Reduction – Staff from the TRRAC (Think, Reduce and Recycle at Apartments and Condominium) Program conducted 670 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. The staff participated in 16 multi-family property educational events, reaching 374 people. These events included community recycling displays and several resident recycling presentations, staff trainings, resident board meetings, lobby events, seminars and webinars. Staff responded to 56 requests for information and resolved four complaints. In addition, staff distributed 1,602 baby blue (6-gallon) multi-family recycling bins, 12 Slim Jim (23-gallon) recycling containers, 87 WasteWatcher XL (32-gallon) recycling containers, and 85 Glutton (56-gallon) recycling containers to multi-family properties to increase recycling capacity. Two issues of the TRRAC quarterly newsletter were published and announcements (with the link to the PDF of the newsletters) were emailed to 2,390 email addresses registered on the multi-family newsletter subscriber list. Also, TRRAC staff conducted a webinar on December 14 demonstrating the use of the online annual recycling reporting system.

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 41 Recycling Volunteers, some of them participating in multiple events, contributed almost 138 hours of their time to support waste reduction and recycling activities this quarter. One volunteer provided over 48 hours of office

assistance which included filing, and counting and bundling of educational materials for distribution at outreach events. Fifteen (15) volunteers participated in eight community outreach events and provided almost 63 hours of direct service to provide information on waste reduction, reuse, recycling and composting to residents. Six (6) volunteers contributed 12 hours of time preparing reusable bags and recycling information for distribution at the Montgomery County Silver Spring Thanksgiving Parade. Additionally, 14 volunteers contributed 60 hours of service participating in the Thanksgiving parade by carrying signs to inform residents and viewers about the County's goal to reduce waste and recycle 70 percent by 2020, and distributing reusable bags stocked with recycling information to residents lining the parade route. In addition to these activities, five (5) neighborhood outreach Block Captains provided almost four (4) hours of their time to provide recycling information to residents in their neighborhoods. The recycling volunteer program recruited 18 new volunteers, nine applicants, and 20 prospect volunteers this quarter. Sixteen new volunteers attended and received information about the County's various recycling and solid waste programs during three (3) new volunteer orientation sessions held on October 11, November 5 and December 10. The recycling volunteers received monthly program updates and the fall edition of the Recycler via email. As of December 31, 2016, there are 369 active recycling 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. For the project to-date (November 1, 2011 – November, 2016) in which pre-consumer food scraps are separated for recycling collection, a total of 97.4 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. Staff also monitored the food scrap recycling collection containers for the cafeterias at the Council Office Building (COB) and the Public Safety Headquarters Building (PSHB). Additional quantities of compostable/biodegradable bags were distributed to all three locations during this quarter.

FACILITY ACTIVITIES

Resource Recovery Facility (RRF) – The RRF processed a total of 115,343 tons for the quarter, or an average of 1,254 tons per day. During this time nine (9) tours of the plant were given. The plant exported 69,208,000 kilowatt-hours to the power grid. About 1,455 tons of ferrous material was recovered from the ash and recycled.

Processing tons were down during the quarter due to numerous problems and scheduled outages which stretched the limits of waste storage capacity at the plant and making it ultimately necessary to bypass almost 28,000 tons of waste to other disposal facilities.

It was a difficult quarter for the plant. In addition to a couple of tube leak events that took or kept units down for repairs, the plant experienced problems with Unit #1 feedchute and feedtable throughout the quarter which limited the unit's ability to process trash. Unit #2 experienced a problem in its new ash discharger which was attributed to a design flaw. Twice, a unit was brought down for grate bar repairs. A lack of ash box deliveries required the plant to reduce its load to reduce ash generation for a day. The oil slick in the Potomac, which was attributed to NRG resulted in loss of normal water supply to the plant intake which limited processing based on the available temporary pumping capacity that could be procured and water that was trucked in from other local sources. Finally, in December a fire in the incoming trash spread to an extremely full pit. The resulting pit fire took weeks to manage and trash processing was difficult and limited while new trash deliveries were halted. When trash deliveries resumed, it was at a greatly reduced rate. An assessment of the damage and management of the onsite stormwater receiving pond water continues. Some repairs have already been made. Staff continues to address questions resulting from the incident.

Materials Recovery Facility (MRF) – During the second quarter, construction of the new fiber processing line at the MRF continued. Commencing in late August, the project will continue through February 2017. The new fiber processing systems will result in more than 50,000 tons of cardboard and fiber related materials processing internally rather than the exportation process that occurred historically. The fiber line sorting equipment began installation and PEPCO has supplied and powered up electricity to the building.

MRF production resulted in the processing of more than 7,508 tons of incoming comingled recyclable materials and more than 12,405 tons of cardboard and other fiber-related materials being exported to vendors under contractual agreements.

During regular and preventative maintenance programs, the following maintenance items were addressed: six (6) conveyor belts were replaced due to wear or damage; two (2) pulleys, two (2) rollers, and three (3) sets of bearings were replaced; rubber cutting edges on one of the material loaders were replaced; Komatsu loads had six (6) injectors, oil cooler and the radiator replaced; the Caterpillar 966 Loader had the steering cylinders replaced, tires were replaced on two forklifts, both pit conveyors were cleaned and excess

liquid material vacuumed out; and general repairs and maintenance was performed on all processing equipment and rolling stock.

Oaks Landfill – **Power Plant Update** - The 2.4 megawatt landfill gas-to-energy (LFGE) facility's mechanically operating well. However, gas quality (low methane quantity) issues are hampering the electricity generation from July. CB&I is proposing to install more extraction wells in gas-rich areas.

Groundwater Quality Update - The County sends the semi-annual groundwater monitoring data to SCS for evaluation purposes. The SCS effort is related to a Nature and Extent Investigation of historically low-level groundwater contamination in the northwest sector of the Oaks Landfill property that may be partially related to gas migration and is in addition to the routine post-closure monitoring and reporting done by DEP. So far, data from four sampling events has been analyzed, and no significant conclusions are evident yet. DEP finished the fall sampling event in September and waiting for final reports. DEP will forward this information along with monthly gas monitoring reports to SCS to conclude the two-year Nature and Extent investigation.

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

In December, DEP performed the quarterly inspection of stormwater outfalls at the Oaks Landfill. No non-stormwater discharges were observed at any of the outfall locations.

During December 16-20, water used to fight the fire at the Montgomery County Resource Recovery Facility was received at the Oaks Sanitary Landfill Leachate Pretreatment Plant. This "fire flow" water was placed in a clean, lined holding lagoon (Lagoon 2) and is to remain in the lagoon pending review of various treatment options. Treatment and hauling of the landfill leachate continues unremarkably. Approximately 875,000 gallons of leachate (fire flow) was hauled and stored at Oaks Sanitary landfill pretreatment plant, Lagoon 2.

Gude Landfill – The 0.8 MW megawatt landfill gas-to-energy (LFGE) facility continues to operate. After the installation of three new extraction wells, the gas quality improved after the installation of three new extraction wells.

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. Gas monitoring probe #26 is also in compliance after the relocation of the probe. There have been continued exceedances with probe #28S and near the pond off of the 600 East Gude Drive entrance. The operations contractor, CB&I, collected the gas sample in the probe in December to rule out any presence of swamp gas or natural gas. DEP is waiting for the final reports. Gas monitoring data is regularly provided to the Gude Landfill Concerned Citizens (GLCC) which includes current and historical results.

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

In December, DEP performed the annual site evaluation at the Gude Landfill. There were no non-stormwater discharges observed at any of the outfall locations or at any on-site pollution sources.

The monthly meeting, upon request, between GLCC (i.e. the community) and DEP was conducted on October 5, 2016 and November 30, 2016 at the Transfer Station. DEP also conducted a public information meeting on October 19, 2016. The community expressed their satisfaction on the DEP public outreach efforts. The meetings will continue throughout the remediation process at the landfill. Written updates will be provided during months when there is insufficient new information to justify a meeting.

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 November. Results indicated reduced methane concentrations at the old dump site, after Phase I, Passive Venting Monitoring, well enhancements. However, in the fourth quarter out of 82 wells monitored, twenty-seven (27) wells indicated exceedances from 6 to 74 percent of lower explosive limit. In the last three-quarters the exceedances are limited to three to eight wells for each quarter.

DEP is considering this situation and asked a third party to test the probes. To cross check DEP's readings, DEP is also getting the gas measurement instrument (GEM 500) recalibrated for accuracy.

Solid Waste Transfer Station – Covanta shipped 109,731 tons of processible waste via rail from the Transfer Station for the second quarter of FY17 compared to 155,315 for the same period last year.

The inbound radiation detectors had 21 total alarms this quarter – 18 alarms by vehicles whose loads were identified as containing low levels of medical isotopes with short half-lives in trash, and three alarms from drivers who had undergone recent medical tests. The Public Unloading Facility radiation detectors had ten alarms. 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 58 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	0	1	3
48.5	<i>License required to collect or dispose of solid waste</i>	1	0	0	1
48-11	<i>Illegal dumping, dumping in another's container, dumping solid waste on a public right-of-way</i>	0	0	4	4
48-19(a)(1)	<i>Transporting Solid Waste without a valid Collectors/Hauler tag</i>	0	0	0	0
48-19(a)(3)	<i>Person cannot engage in business of collecting or transporting solid waste without obtaining a license</i>	0	0	0	0
48-19(a)(2)(a)	<i>Improper or no tarps on resident vehicle</i>	22	2	2	26
48-19(a)(2)b	<i>Transporting solid waste without a canvas or tarp covering the load tightly Commercial</i>	1	3	4	8
48-20(a)	<i>Un-permitted Vehicle of a Licensed Company</i>	3	2	8	13
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>	1	0	0	1
48-23	<i>Leaving Vehicle (Trash Truck) Unattended</i>	0	0	0	0
48-24(c)	<i>Container Standards must be maintained</i>	1	1	0	2
48-48(a)	<i>Disposing of Solid Waste Acceptable for Recycling (Generators)</i>	0	0	0	0
	TOTALS	31	8	19	58

Site 2 Landfill Properties – During the quarter, staff forwarded the contact information to DGS Real Estate section of someone interested in renting the barn on the Draper property. The current tenant informed us that they would not be renting the barn after their contract expires in February 2017. In November, staff again attempted to reach out to the Historic Preservation Office (HPO) to cooperate with them about filling in an open bore well located on the Chiswell property.

Yard Trim Compost Facility – The facility received 27,12 tons of material for composting this quarter. This compares with 33,483 tons of materials received during the same period last year. No materials were diverted to back-up composting facilities this quarter. There were 11,257 cubic yards of bulk LeafGro™ shipped this quarter; compared with 17,227 cubic yards for the same period last year. (sold out of material early).

Bagging Operation – 254,400 bags of LeafGro™ were shipped to distributors this quarter. This compares with 80,450 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 the second quarter of FY17, approximately 40,019 tons of ash residue was 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 at the RRF and during the screening process at Old Dominion Landfill.

Perry Hall, Maryland – Approximately 3,941 tons of asphalt, soil, concrete, brick and block and other non-processibles was sent to the Honeygo Run Recycling site in Perry Hall, Maryland, for construction and demolition debris recycling or disposal for the second quarter of FY17.

DOT Pad Recycling – Since July, 2014, Covanta has been operating the DOT pad for construction and demolition recycling to include a soil screening operation. In the second quarter, 5,821 tons of concrete and dirt was processed and sent to vendors for recycling.

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 DSWS	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	91,588
# Residences receiving collection of recyclables in blue bins and yard trim collection	216,445
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
COB	Council Office Building
DAFIG	Dickerson Area Facilities Implementation Group
DEP	Department of Environmental Protection
DGS	Department of General Services
DOT	Department of Transportation
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
MDE	Maryland Department of the Environment
MES	Maryland Environmental Services
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NOV	Notice of Violation
PSHB	Public Safety Headquarters Building
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
VOCs	Volatile Organic Compounds

WSSC	Washington Suburban Sanitary Commission
WVO	Waste Vegetable Oil
YTD	Year-To-Date