



TOWN OF FAIRFAX STAFF REPORT July 13, 2016

TO: Mayor and Town Council

FROM: Michele Gardner, Town Clerk *MG*

SUBJECT: Acceptance of Marin Sanitary Service First Quarterly Report (January-March 2016)

RECOMMENDATION

Accept the report

DISCUSSION

Attached is the First Quarterly Report from Marin Sanitary Service for the Council's review and acceptance. The quarterly report covers the first quarter period from January through March 2016.

ATTACHMENT

Marin Sanitary Service First Quarterly Report 2016

AGENDA ITEM # 6

Town of Fairfax

Quarterly Report January-March, 2016

Marin Sanitary Service

CONSERVATION – OUR EARTH, OUR MISSION, OUR JOB



2016

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Town of Fairfax

Quarterly Report January-March, 2016

Curbside Collection: Residential, Commercial & Multifamily

The “Evolving Ton”

Why is our recycling rate not really changing even though we are recycling more by volume? This question is being repeated across the country. Jurisdictions all over the nation are seeing similar trends in recycling rates partially due to the “evolving ton”. Recycling rates are based on weight not volume. The types of materials in the waste stream are changing. There are fewer newspapers in print, less glass, lighter weight paper, metals and plastics, and more film pouch packaging compared to 10 years ago. Over the years packaging has changed drastically.

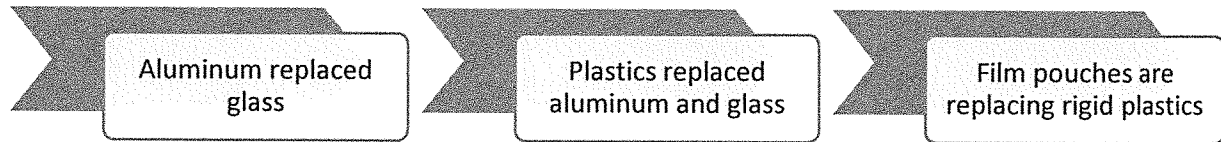
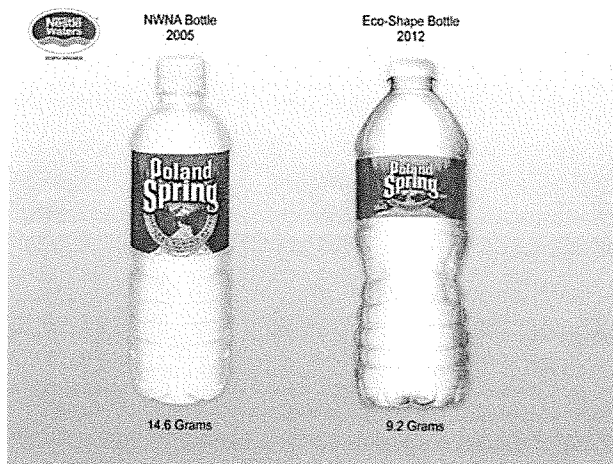


FIGURE 1: LIGHTER PLASTIC PACKAGING (2005 AND 2012)



Single use disposable plastic containers and plastic packaging increase more every year. Plastic bottles are thinner and weigh significantly less than they did in the past. On average, it takes 25% more plastic by volume to make the same ton today compared with 2005 (Figure 1). Though more volumes of materials are being recycled and processed, this shift combined with less overall disposal makes the recycling rates appear to be unchanged or even decreasing according to an EPA Webinar Series on “The Changing Waste Stream”, November 13, 2014.

The evolving ton is making us rethink how we measure and report recycling rates. The traditional method of only tracking tonnage does not tell the entire story. The overarching goal is less waste to the landfill. This is best measured by the State

Disposal metric, pounds per person per day (PPD). Two other important metrics to compare are tonnage and volumetric service levels.

Residential Recycling Rates by Weight and by Volume

Tables 1 (Fairfax) and 2 (MSS Service Area) show the total gross available service volume in cubic yards. This is the cumulative amount of service subscribed to for residential customers. Table 3 shows the actual tonnage collected and diverted for residential customers. While the volumetric recycling rate did not change, it remains higher (80%) than to the entire MSS Service Area (77%). Fewer tons were sent to the landfill Q1 2016 compared to Q1 2015 and the weight based recycling rate has increased 3%.

TABLE 1: FAIRFAX RESIDENTIAL RECYCLING RATE BY VOLUMETRIC SERVICE LEVELS (CUBIC YARDS OF SERVICE)

Fairfax Residential Total Gross Service Volume (Cubic Yards)		
	Q1 2015	Q1 2016
Landfill	405	393
Recycle	815	797
Organics	817	810
Recycling Rate	80%	80%

TABLE 2: MSS SERVICE AREA RESIDENTIAL RECYCLING RATE BY VOLUMETRIC SERVICE LEVELS (CUBIC YARDS OF SERVICE)

Service Area Residential Total Gross Service Volume (Cubic Yards)		
	Q1 2015	Q1 2016
Landfill	5709	5602
Recycle	9507	9535
Organics	9609	9619
Recycling Rate	77%	77%

TABLE 3: RESIDENTIAL RECYCLING RATES BY WEIGHT (TONS)

	RESIDENTIAL	
	Q1 2015	Q1 2016
Tons Collected:		
Curbside Yard Waste	397	371
Curbside Recycle	234	268
Transfer Station	291	257
Commercial Food Waste (F2E)	* N/A	* N/A
Commercial processed at MRRC	* N/A	* N/A
Total Tons Collected	922	896

*Commercial yard waste is co-collected with residential yard waste. Tonnage is included with Residential. F2E and Commercial Processed at MRRC are included in Commercial.

	RESIDENTIAL	
	Q1 2015	Q1 2016
Tons Diverted:		
Curbside Yard Waste	397	371
Curbside Recycle	234	268
Commercial Food Waste (F2E)	* N/A	* N/A
Commercial recovered through MRRC	* N/A	* N/A
Total Tons Diverted	631	639

*Commercial yard waste is co-collected with residential yard waste. Tonnage is included with Residential. F2E and Commercial Processed at MRRC are included in Commercial.

Recycling Rate	68%	71%
Landfilled	291	257

Commercial Recycling Rates by Weight and by Volume

Tables 4 (Fairfax) and 5 (MSS Service Area) show the total gross available service volume in cubic yards. This is the cumulative amount of service subscribed to for commercial customers. Table 6 shows the actual tonnage collected and diverted for commercial customers. The volumetric recycling rate increased 2% from Q1 2015 to Q1 2016 and remains significantly higher (54%) than the entire MSS Service Area (37%). Fewer tons were sent to the landfill Q1 2016 compared to Q1 2015 and the weight based recycling rate has increased 1%.

TABLE 4: FAIRFAX COMMERCIAL/MULTIFAMILY VOLUMETRIC SERVICE RECYCLING RATE (CUBIC YARDS OF SERVICE)

Fairfax Commercial & MFD Total Gross Service Volume (Cubic Yards)		
	Q1 2015	Q1 2016
Landfill	283	276
Recycling	274	288
Organics	24	31
Recycling Rate	51%	54%

TABLE 5: MSS SERVICE AREA COMMERCIAL/MULTIFAMILY VOLUMETRIC SERVICE RECYCLING RATE (CUBIC YARDS OF SERVICE)

Service Area Commercial & MFD Total Gross Service Volume (Cubic Yards)		
	Q1 2015	Q1 2016
Landfill	11151	10867
Recycling	5217	5648
Organics	454	600
Recycling Rate	34%	37%

TABLE 6: COMMERCIAL RECYCLING RATE BY WEIGHT (TONS)

	COMMERCIAL	
	Q1 2015	Q1 2016
Tons Collected:		
Curbside Yard Waste	* N/A	* N/A
Curbside Recycle	90	101
Transfer Station	250	273
Commercial Food Waste (F2E)	13	19
Commercial processed at MRRC	53	57
Total Tons Collected	406	450

*Commercial yard waste is co-collected with residential yard waste. Tonnage is included with Residential. F2E and Commercial Processed at MRRC are included in Commercial.

	COMMERCIAL	
	Q1 2015	Q1 2016
Tons Diverted:		
Curbside Yard Waste	* N/A	* N/A
Curbside Recycle	90	101
Commercial Food Waste (F2E)	13	19
Commercial recovered through MRRC	40	43

Total Tons Diverted	143	163
*Commercial yard waste is co-collected with residential yard waste. Tonnage is included with Residential. F2E and Commercial Processed at MRRC are included in Commercial.		
Recycling Rate	35%	36%
Landfilled	263	287

Jurisdiction Wide Recycling Rates by Weight and Diversion Service Participation Rates

From Q1 2015 to Q2 2016, there has been an overall recycling rate increase of 2% (Table 7) for the Town. The overall tons sent to the landfill have decreased by 10 tons while the overall tons collected and diverted have increased. Table 8 shows the overall tons collected and diverted for the entire MSS Service Area. The Town continues to have a higher overall recycling rate.

TABLE 7: FAIRFAX OVERALL RECYCLING RATE BY WEIGHT (TONS) Q1 2015 COMPARED TO Q1 2016.

	Fairfax TOTAL	
	Q1 2015	Q1 2016
<u>Tons Collected:</u>		
Curbside Yard Waste	397	371
Curbside Recycle	324	369
Transfer Station	541	530
Commercial Food Waste (F2E)	13	19
Commercial processed at MRRC	53	57
Total Tons Collected	1,328	1,346

*Commercial yard waste is co-collected with residential yard waste. Tonnage is included with Residential. F2E and Commercial Processed at MRRC are included in Commercial.

	Fairfax TOTAL	
	Q1 2015	Q1 2016
<u>Tons Diverted:</u>		
Curbside Yard Waste	397	371
Curbside Recycle	324	369
Commercial Food Waste (F2E)	13	19
Commercial recovered through MRRC	40	43
Total Tons Diverted	774	802

*Commercial yard waste is co-collected with residential yard waste. Tonnage is included with Residential. F2E and Commercial Processed at MRRC are included in Commercial.

Recycling Rate	58%	60%
Landfilled Tons	554	544

TABLE 8: SERVICE AREA OVERALL RECYCLING RATE BY WEIGHT (TONS) Q1 2015 COMPARED TO Q1 2016.

	Total Service Area	
	Q1 2015	Q1 2016
<u>Tons Collected:</u>		
Curbside Yard Waste	4,990	5,042
Curbside Recycle	4,925	5,098
Transfer Station	11,210	11,608
Commercial Food Waste (F2E)	318	537
Commercial processed at MRRC	2,581	2,712
Total Tons Collected	24,025	24,997

*Commercial yard waste is co-collected with residential yard waste. Tonnage is included with Residential. F2E and Commercial Processed at MRRC are included in Commercial.

	Total Service Area	
	Q1 2015	Q1 2016
<u>Tons Diverted:</u>		
Curbside Yard Waste	4,990	5,042
Curbside Recycle	4,925	5,098
Commercial Food Waste (F2E)	318	537
Commercial recovered through MRRC	1,938	2,037
Total Tons Diverted	12,171	12,714
*Commercial yard waste is co-collected with residential yard waste. Tonnage is included with Residential. F2E and Commercial Processed at MRRC are included in Commercial.		
Recycling Rate	51%	51%

Tables 8 and 9 show the overall percentage of participation in all diversion (recycling) services for Fairfax and the entire MSS Service Area respectively. The participation rates in the Town are 13% higher than the MSS Service Area as a whole most likely due to the partnership between the Town, Sustainable Fairfax and MSS to get the message out to customers.

TABLE 9: FAIRFAX OVERALL PARTICIPATION IN DIVERSION SERVICES

Fairfax	
Diversion Service	Participation
Paper Recycling	74%
Containers Recycling	80%
Cardboard Recycling	46%
Organics Recycling	22%
F2E	10%
Average Participation	46%

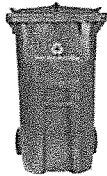
TABLE 10: MSS SERVICE AREA OVERALL PARTICIPATION IN DIVERSION SERVICES

MSS Service Area	
Diversion Service	Participation
Paper Recycling	62%
Containers Recycling	53%
Cardboard Recycling	36%
Organics Recycling	10%
F2E	5%
Average Participation	33%

Residential Service Levels

Residential Customers: Comprehensive hauling services for one low rate

We're more than just the garbage company - we're your resource hauler, providing comprehensive recycling and landfill services in a basic bundled service package for one low cost.



Dual Sort Recycling

Recycle bottles, cans and containers on the brown side and paper products on the blue side.



Organics Yard /Food Waste

Recycle yard trimmings, kitchen scraps and food soiled paper in the green cart so they can be composted into a rich soil amendment.



Garbage Hauling

Everything put in the garbage goes directly to landfill.

The more you recycle, the more you save. See reverse side to learn how.

Visit www.marinsanitaryservice.com for guidelines on what is recyclable and compostable.

All residential customers are offered three services as part of the bundled “resource hauling” rate. This includes a gray “landfill” (garbage) cart, a split body recycling cart and a green organics cart. The fee is based on the size of the landfill cart. In 2014, MSS introduced a larger 95-gallon split cart for recycling and a smaller 35-gallon green cart for organics. There is a nominal fee for the rental of additional MSS tipper carts for organics and recycling. MSS encourages the use of company owned carts to increase collection efficiency, decrease damage to customer owned containers, and increase safety of our drivers by preventing risk of injury due to the manual moving and emptying of customer owned containers.

Table 10 below details the Residential service levels and the percentage change from Q1 2015 to Q1 2016. The number of subscriptions to 32, 64 and 96 gallon landfill carts have decreased while the number of subscriptions to 20 gallon landfill carts continues to increase. These numbers are only for MSS supplied tipper carts and do not reflect customer owned cans or bags that contain extra garbage, yard waste and/or recycling.

TABLE 11: RESIDENTIAL CURBSIDE SUBSCRIPTIONS TO RECYCLING, ORGANICS & GARBAGE

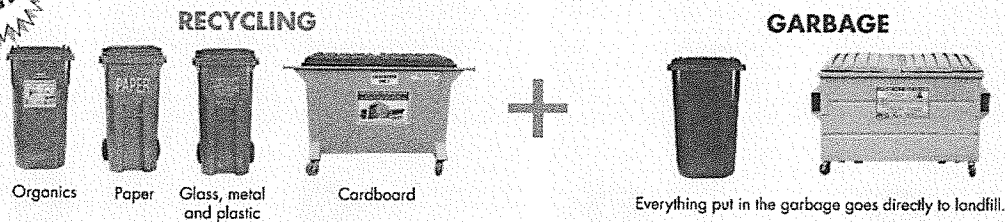
Residential Weekly Garbage Service			
CART size	Q1 2015	Q1 2016	% Change
20 gallon	487	591	21%
32 gallon	1,931	1,801	-7%
64 gallon	151	143	-5%
96 gallon	7	9	29%

Residential Weekly Split Cart Recycling Service			
CART size	Q1 2015	Q1 2016	% Change
5 gallon	66	56	-15%
32 gallon	2	1	-50%
64 gallon	2,516	2,417	-4%
96 gallon	33	62	88%
Residential Weekly Compost			
CART size	Q1 2015	Q1 2016	% Change
35 gallon	25	51	104%
64 gallon	2,498	2,471	-1%
96 gallon	46	40	-13%

Multifamily Dwelling (MFD) Service Levels

Multifamily Dwellings: Comprehensive hauling services for **one low rate**

We're more than just the garbage company - we're your resource hauler, providing comprehensive recycling and landfill services in a basic bundled service package for one low rate.



The more you recycle, the more you save. See reverse side to learn how.
Call 415-456-2601 or visit www.marinsanitaryservice.com for more information.

Multifamily Dwellings (MFDs) are offered recycling services as part of a "bundled rate". Beginning in 2016, a full scale organics program will be offered to tenants at apartment buildings and will be included as part of the bundled rate. In addition, MFD tenants will receive kitchen pails after attending a workshop for the collection of compostable materials.

Since there is a wide variety of container types and sizes and collection frequency, the data is reported based on overall weekly yardage of service. MFD customers are offered the following containers types and service for landfill (garbage) materials.

- 32, 64, and 96 gallon MSS tipper carts. 20 gallon carts are offered only after a successful recycling and composting program has been established.
- 1, 2, 3, 4, 5, and 6 cubic yard bins.
- 10, 18, 20, 25 cubic yard roll-off boxes. Larger sizes are available upon request.
- Compactors: sizes range from 3 cubic yards to 40 cubic yards.

Recycling and Organics Services are primarily offered for collection in carts. Cardboard and Organic materials may be collected in bins. The following container types and sizes are available for MFD customers

- 32, 64, and 96 gallon blue carts for paper recycling.
- 32, 64, and 96 gallon brown carts for containers recycling (plastic, glass, metal bottles & cans).
- 32 and 64 gallon organics carts for composting.
- 1, 2, and 3 cubic yard bins for cardboard recycling.
- 1 and 2 yard bins organics bins for composting.

Table 11 shows the overall service collections per week for all multifamily dwellings in the Town. This does not show how many containers are in service but how many times a certain size container is emptied. For instance, a customer may have one 32-gallon cart but it is emptied six days per week. This would count as six 32-gallon pick-ups. From Q1 2015 to Q1 2016, there was one additional collection of a 3-yard landfill bin in the Town. Diversion services have increased in the Town, especially for the organics program. MSS is hopeful that with increased outreach & education and the partnership with Sustainable Fairfax, we will continue to see a decrease in landfill and an increase in diversion services.

TABLE 12: CURBSIDE WEEKLY COLLECTIONS FOR RECYCLING, ORGANICS & GARBAGE FOR MULTIFAMILY DWELLINGS

MFD Total Weekly Pick Ups Garbage				MFD Total Weekly Pick Ups Recycling			
CART size	Q1 2015	Q1 2016	% Change	CART size	Q1 2015	Q1 2016	% Change
32 gallon	153	153	0%	32 gallon	1	1	0%
64 gallon	38	38	0%	64 gallon	207	222	7%
96 gallon	39	39	0%	96 gallon	12	12	0%
1 yard	3	3	0%	32 gallon	1	1	0%
2 yard	8	8	0%	MFD Total Weekly Pick Ups Organics			
3 yard	3	4	33%	CART size	Q1 2015	Q1 2016	% Change
4 yard	1	1	0%	32 gallon	2	4	100%
				64 gallon	24	33	38%
				96 gallon	2	2	0%

Commercial Service Levels

Commercial businesses are offered recycling services as part of a “bundled rate”. Beginning in 2015, two organics programs were offered for the same charge to all commercial customers. Since there is a wide variety of container types, sizes and collection frequency, the data is reported based on overall weekly yardage of service. Commercial business customers are offered the following containers types and service for landfill (garbage) materials.

- 32, 64, and 96 gallon MSS tipper carts. 20 gallon carts are offered only after a successful recycling and composting program has been established.
- 1, 2, 3, 4, 5, and 6 cubic yard bins.
- 10, 18, 20, 25 cubic yard roll-off boxes. Larger sizes are available upon request.
- Compactors: sizes range from 3 cubic yards to 40 cubic yards.

Recycling and Organics Services are primarily offered for collection in carts. Cardboard and Organic materials may be collected in bins. The following container types and sizes are available for commercial customers.

- 32, 64, and 96 gallon blue carts for paper recycling.
- 32, 64, and 96 gallon brown carts for containers recycling (plastic, glass, metal bottles & cans).
- 32 and 64 gallon organics carts for composting.
- 32 and 64 gallon food waste carts for food to energy.
- 1, 2, and 3 cubic yard bins for cardboard recycling.
- 1 and 2 yard bins for food waste for food to energy.

Overall, the percentage of landfill service subscriptions to larger size containers have decreased and the level of “diversion” services have increased (Table 12). This is significant and is primarily due to our partnership with Sustainable Fairfax and the enhanced commercial recycling service offerings and

Commercial Customers:
BUNDLED SERVICES FOR ONE LOW RATE

We're more than just the garbage company —we're your resource hauler, providing comprehensive recycling and landfill services in a basic bundled service package for one low rate.

Recycling



Paper Glass, metal and plastic Cardboard

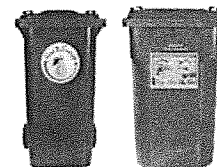
Garbage



Everything put in the garbage goes directly to landfill.

AND SAVE UP TO 30% WITH ORGANICS

Commercial Composting and Food Scraps 2 Energy carts cost less than garbage carts.



Keep organics out of the landfill and save money!

**The more you recycle,
the more you save.
See reverse side to learn how.**

 *Marin Sanitary Service*

outreach & education by MSS. Since roll-off boxes and compactors are weighed individually, they are not covered in the overall service yardage report.

TABLE 13: CURBSIDE WEEKLY COLLECTIONS FOR RECYCLING, ORGANICS & GARBAGE FOR COMMERCIAL BUSINESSES

Commercial Total Weekly Pick Ups Garbage Service			
CART size	Q1 2015	Q1 2016	% Change
32 gallon	112	111	-1%
64 gallon	34	34	0%
96 gallon	24	18	-25%
1 yard	10	10	0%
2 yard	17	14	-18%
3 yard	28	29	4%
4 yard	4	3	-25%
6 yard	2	2	0%

Commercial Total Weekly Pick Ups Recycling Services			
CART size	Q1 2015	Q1 2016	% Change
5 gallon	3	2	-33%
32 gallon	26	33	27%
64 gallon	272	262	-4%
96 gallon	16	18	13%
1 yard	4	7	75%
2 yard	50	54	8%

Commercial Total Weekly Pick Ups Organics			
CART size	Q1 2015	Q1 2016	% Change
32 gallon	1	3	200%
64 gallon	36	42	17%

Commercial Total Weekly Pick Ups Food 2 Energy			
CART size	Q1 2015	Q1 2016	% Change
32 gallon	4	14	250%
64 gallon	9	9	0%

Mandatory Commercial Recycling Compliance

MSS is working with the Town and Sustainable Fairfax to implement recycling and/or organic services at all Commercial and Multifamily Dwellings per the Town's Mandatory Commercial Recycling Ordinance, [8.08.130](#). Currently, all multifamily and commercial businesses are compliant with the Town's recycling ordinance. Thirty commercial business are enrolled in an organics recycling program: 22 (4 schools, 3 churches, 15 businesses, and the Town Corp yard) are enrolled in the commercial compost program and 10 restaurants are enrolled in the commercial food to energy program. All Multifamily Dwellings (Apartments with 4 or more units) have recycling and 20 have organics composting service.

TABLE 14 COMPLIANCE: COMMERCIAL BUSINESSES AND APARTMENTS

Customer Type	Required and NOT compliant	Required and is compliant	Grand Total
Multifamily Dwelling	0	26	26
Commercial Business	0	96	96
Total	0	119	122

Market Values of Materials Diverted

Overall, salvage prices per ton for primary curbside commodities have been decreasing. This trend is expected to continue. Table 14 shows the per ton price for glass and aluminum Q1 2015 compared to Q1 2016. Glass remains stable at \$18 per ton. Aluminum salvage prices per ton has decreased in 2016. Figures 1 and 2 show the average scrap values per ton of plastics and papers respectively Q1 2015 compared to Q1 2016. Prices for these commodities have decreased significantly and there continues to be no markets for the #3-7 plastics.

TABLE 15 AVERAGE MARKET VALUE PER TON OF CURBSIDE ALUMINUM AND GLASS (\$- DENOTES NO SALE THAT MONTH)

Q1 2015			Q1 2016		
Month	Aluminum	Glass	Month	Aluminum	Glass
January	\$1,580	\$18	January	\$1,100	\$18
February	\$-	\$18	February	\$1,120	\$18
March	\$1,440	\$18	March	\$1,180	\$18

FIGURE 2 AVERAGE MARKET VALUE PER TON OF CURBSIDE PLASTICS Q1 2015 AND Q1 2016 (\$- DENOTES NO SALE THAT MONTH)

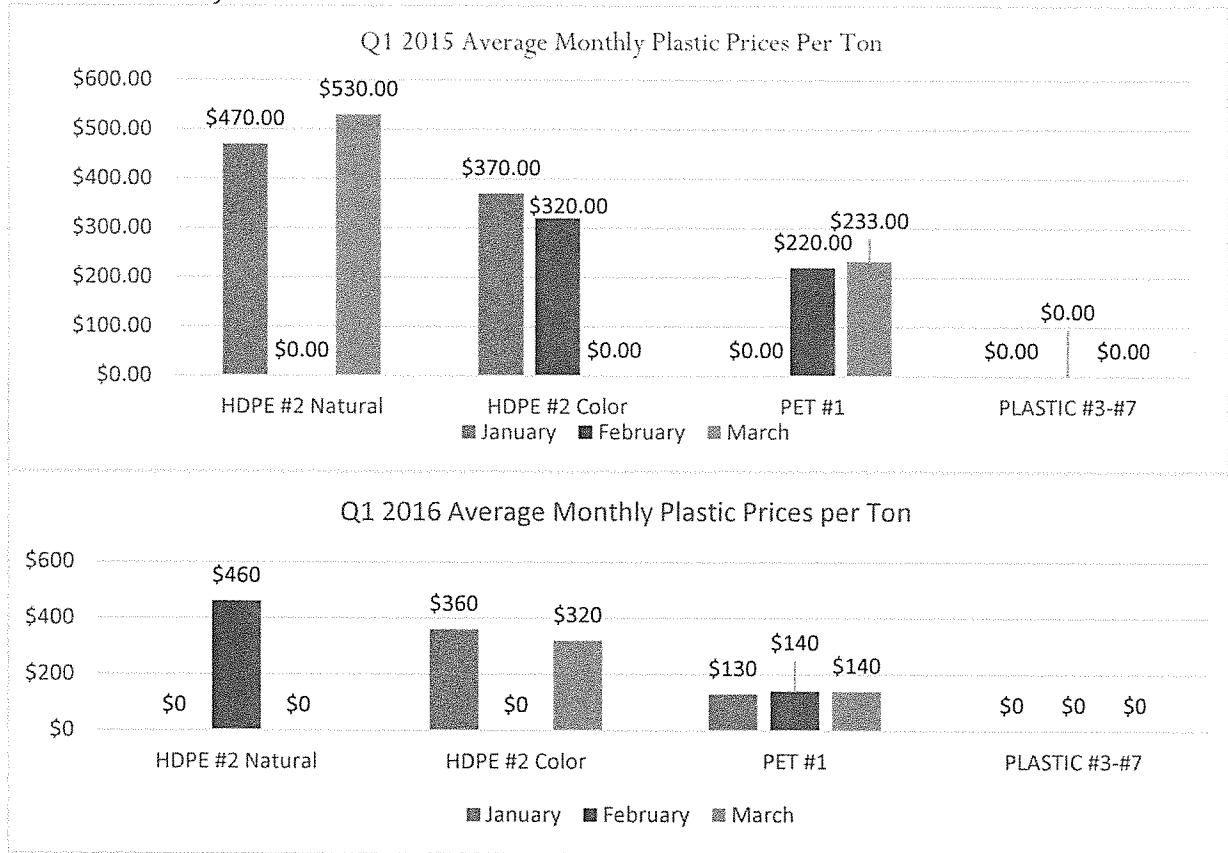
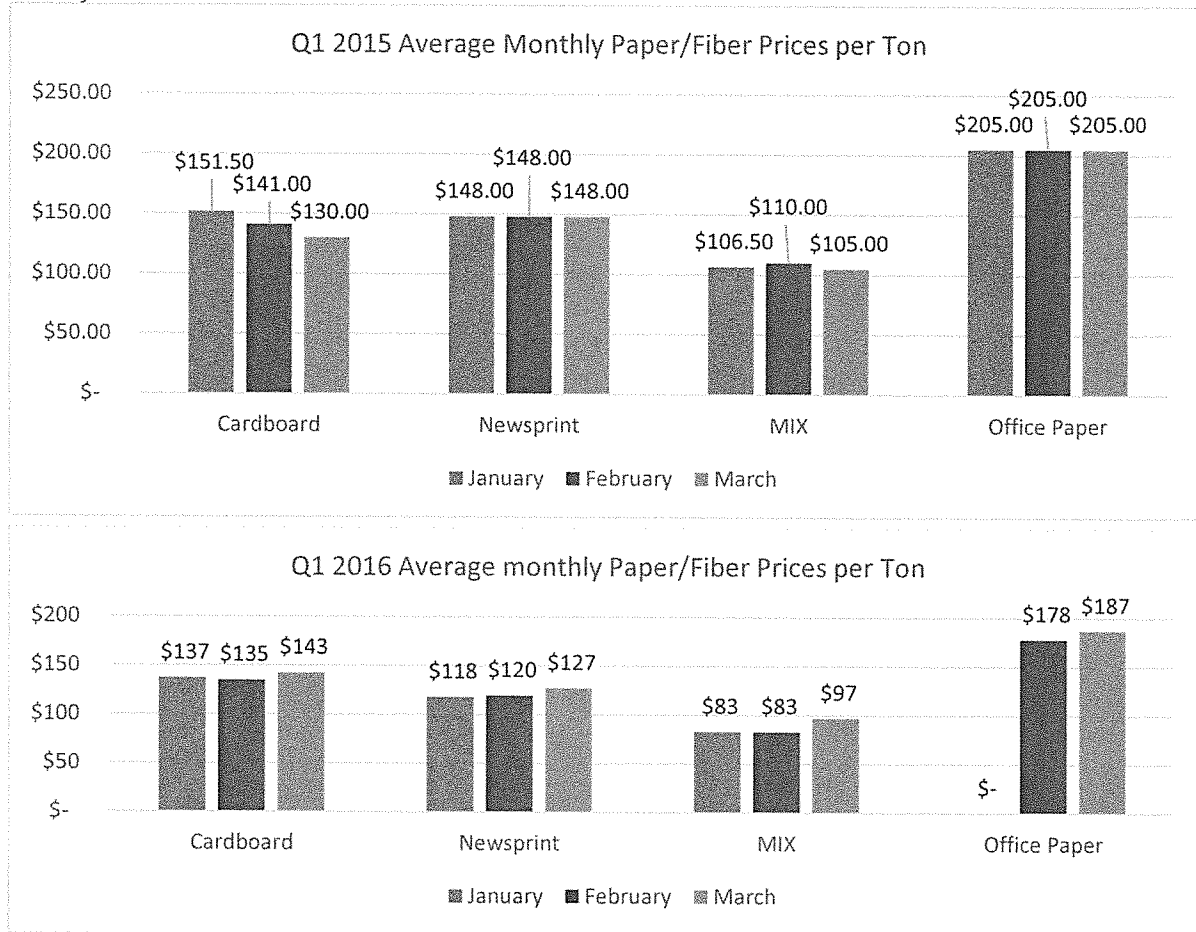


FIGURE 3 AVERAGE MARKET VALUE PER TON OF CURBSIDE PAPER/FIBER Q1 2015 AND Q1 2016 (\$- DENOTES NO SALE THAT MONTH)



Household Hazardous Waste (HHW)

Table 15 compares participation in the HHW program by customer type for Q1 2015 and Q1 2016. Due to poor participation in the Residential curbside HHW collection program, beginning July 1, 2016, this program will be eliminated and replaced with a scheduled curbside collection of extra recycling/yard waste/garbage and an on-call collection of two bulky items.

TABLE 16 HHW PARTICIPANTS BY CUSTOMER MONTH

	Q1 2015	Q1 2016
CUSTOMER TYPE	PARTICIPANTS	PARTICIPANTS
RESIDENTIAL	332	287
CESQG	0	4
RESIDENTIAL CURBSIDE COLLECTION (RCC)	1	1

Customer Service

In the first quarter of 2016, there were a total of 3,385 calls from the Town. Of these, 227 were for complaint related issues (115 misses, 97 broken cart/bin repairs, and 15 missing carts).