



TO: Environmental Commission

FROM: Cresson S. Slotten, P.E., Public Services Area

DATE: August 20, 2019

SUBJECT: Responses to Environmental Commission Requests at 6/27/19 Commission Meeting

Below are the responses to three requests made by the Environmental Commission during the report from the Solid Waste Working Group at the June 27, 2019 regular Commission meeting and which have been included in the draft meeting minutes:

Item #1: *Commissioner Mirsky requested a new written solid waste quarterly update, fulfilling a long-standing commitment by the City Administrator to the commission, focusing on FY19 revenues, expenses, one-time impacts and the resultant status of the reserve fund. In the past 6-9 months the Commission has only received reports on the status of the SWRMP Update and related Advisory Committee meetings; no financial updates/forecasts have been provided.*

Response: Staff has prepared the attached quarterly Solid Waste Fund Financial report which will be distributed to the Commission. This report will be run at the end of each fiscal quarter, and will be snapshots of the Solid Waste Fund revenues and expenses recorded in the City's financial system at that time. Please note, this report contains only items that have been booked to the financial system at that point in time; therefore, it does not represent revenue and expenditures for services through each quarter end.

The first quarterly Solid Waste Fund Financial report is attached, and is through 6/30/19, the end of the fourth quarter of FY19. It should be noted that the information contained in this report is subject to change as all expenditures and revenues are not yet processed/posted to the financial system and are subject to final audit of the fund.

Please note regarding the status and forecasts related to the Solid Waste Fund reserves, these are reported annually during the budget process. We are happy to share the information prepared for City Council with the Environmental Commission at that time.

Items #2: *Commissioner Mirsky requested an analysis which shows changes to recycling commodity market prices have impacted A2 solid waste revenues, e.g., on a quarterly basis for FY19.*

Response: When analyzing commodity market prices and the City's solid waste revenues associated with the City's Interim MRF Operations Contract with Recycle Ann Arbor (RAA), there are multiple factors that are included in the analysis.

- *Commodity Categories Unit Prices* – The City/RAA contract includes several different commodity categories representing the various materials included in the City's single-stream recyclables. These categories have commodity market indices that are used to establish the value of the materials collected and form the basis for calculating the City's revenue share, i.e., MRF credit, for the monthly invoicing. A few of the items - - miscellaneous scrap metal, mixed glass and residuals - - have fixed prices and are not tied to these indices.
- *Commodity Categories Percent Allocation* – Periodic material composition audits are performed to measure the percentage of each commodity category to establish the make-up of the City's recyclable materials used in the monthly invoicing. These percentages are used in the monthly invoicing until the next audit is performed. Audits have been performed on 8/4/17, 11/3/17, 2/16/18, 10/5/18 and 4/5/19.
- *Tonnages* – The amount of material that is collected and processed in a particular month will affect the amount of revenue/credit that is received by the City. If a high tonnage is collected during a month when a higher percentage of high value material, then the revenue/credit will be higher than during a month with a low tonnage, or possibly than a month with a high tonnage with a lower percentage of high value material depending on the market index value.

Attached are the tables and figures for these factors and the resulting MRF credit and the calculated average credit across all of the commodity categories over the two years of the City/RAA contract to-date.

Item #3: *Commissioner Mirsky would also like the Commission to receive a copy of RAA's MRF activation proposal submitted to the City in April and the City's evaluation of it - - not just the status/timing of a potential contract but also comments on the content of the proposal (pros, concerns, etc.).*

Response: Rather than move forward with this unsolicited proposal, staff has issued Request for Proposals (RFP) #19-28 seeking proposals from vendors to sort, process and market the City's recyclable materials that are delivered to the MRF by City crews and the City's collection contractor(s). The proposals may be for using the MRF as a transfer facility to transload recyclables to another MRF for processing with information on where the processing MRF(s) is located to compare with other proposals, and/or for re-equipping the MRF and performing sorting and processing of the recyclables at the City's MRF. The RFP was issued on Friday, August 16, 2019 with a proposal due date of September 17, 2019. The target date for providing a recommended contract award to City Council is October 21, 2019.

Additional Item from Chair Brown: Environmental Commission Chair Stephen Brown has requested an update on the status of recruitment for the Solid Waste Manager (Resource Recovery Manager) position.

Response: Recruitment for the new Resource Recovery Manager position is well underway. Applications for the position have been received and interviews have been performed. Due to the sensitive nature of personnel matters and a recruitment process that is still in progress, specifics regarding any candidates cannot be provided. It is hopeful that a hire for this position will be made by early fall.

Attachments

cc: Howard S. Lazarus, City Administrator
 Craig Hupy, Public Services Area Administrator
 Missy Stults, Sustainability and Innovations Manager
 Marti Praschan, Public Services Chief of Staff
 Molly Maciejewski, Public Works Manager

Budget Performance Report

Year to Date

06/30/2019

Account Type	Expenses
Process Status	Posted

Expenditures

Account	Column Labels		
	Fiscal Calendar 2019		
	Spent	Budget	% Used
0072 Solid Waste			
018 Finance			
1600 Treasurer			
Personnel & Fringes	\$ 193,428	\$ 208,002	93%
Pass Throughs	\$ 84,180	\$ 84,185	100%
Personnel Other	\$ 235	\$ -	
Other	\$ 4,919	\$ 1,699	290%
1600 Treasurer Total	\$ 282,761	\$ 293,886	96%
018 Finance Total	\$ 282,761	\$ 293,886	96%
019 Non-Departmental			
1113 Tax Refunds			
Other	\$ -	\$ 5,000	0%
1113 Tax Refunds Total	\$ -	\$ 5,000	0%
019 Non-Departmental Total	\$ -	\$ 5,000	0%
029 Sustainability & Innovation			
1300 Energy Management			
Personnel & Fringes	\$ 29,864	\$ 46,641	64%
1300 Energy Management Total	\$ 29,864	\$ 46,641	64%
029 Sustainability & Innovation Total	\$ 29,864	\$ 46,641	64%
040 Engineering			
9161 Container Storage Building			
Pass Throughs	\$ -	\$ 11,244	0%
Other Contracted & Professional Services	\$ -	\$ -	
9161 Container Storage Building Total	\$ -	\$ 11,244	0%
9182 2015 Dead End Streets			
Personnel & Fringes	\$ 2,023	\$ -	
Other	\$ (2,023)	\$ 10,935	-19%
9182 2015 Dead End Streets Total	\$ 0	\$ 10,935	0%
9269 2019 Misc Utility Projects			
Pass Throughs	\$ 21,756	\$ 21,756	100%
9269 2019 Misc Utility Projects Total	\$ 21,756	\$ 21,756	100%
9270 2019 Dead End Streets			
Personnel & Fringes	\$ 545	\$ -	
Pass Throughs	\$ -	\$ 3,873	0%
Other Contracted & Professional Services	\$ 1,781	\$ -	
Other	\$ (2,326)	\$ -	
9270 2019 Dead End Streets Total	\$ (0)	\$ 3,873	0%
040 Engineering Total	\$ 21,756	\$ 47,808	46%

Budget Performance Report

Year to Date

06/30/2019

Expenditures

Column Labels				
046 Systems Planning				
8500 System Planning				
1000 Administration				
Personnel & Fringes	\$	0	\$	-
Fleet	\$	229	\$	-
Pass Throughs	\$	6,912	\$	6,913 100%
Materials and Supplies	\$	10	\$	-
Other Contracted & Professional Services	\$	-	\$	-
Other	\$	48	\$	2,890 2%
1000 Administration Total	\$	7,198	\$	9,803 73%
3360 Planning				
Personnel & Fringes	\$	184	\$	-
Other	\$	57	\$	-
3360 Planning Total	\$	241	\$	-
7019 Public Engagement				
Personnel & Fringes	\$	31,716	\$	41,931 76%
Materials and Supplies	\$	118	\$	-
Other	\$	709	\$	-
7019 Public Engagement Total	\$	32,543	\$	41,931 78%
7021 Partnerships				
Personnel & Fringes	\$	230	\$	-
7021 Partnerships Total	\$	230	\$	-
7023 Program Management				
Personnel & Fringes	\$	421	\$	-
7023 Program Management Total	\$	421	\$	-
7024 Asset Management				
Personnel & Fringes	\$	7,380	\$	5,098 145%
Personnel Other	\$	509	\$	750 68%
Other	\$	73	\$	150 49%
7024 Asset Management Total	\$	7,963	\$	5,998 133%
8500 System Planning Total	\$	48,596	\$	57,732 84%
046 Systems Planning Total	\$	48,596	\$	57,732 84%
061 Public Works				
1000 Administration				
Personnel & Fringes	\$	491,114	\$	585,809 84%
Fleet	\$	4,277	\$	19,863 22%
Pass Throughs	\$	112,171	\$	111,897 100%
Materials and Supplies	\$	2,452	\$	5,800 42%
Personnel Other	\$	-	\$	21,500 0%
Other Contracted & Professional Services	\$	209,097	\$	487,597 43%
Other	\$	69,409	\$	72,816 95%
1000 Administration Total	\$	888,520	\$	1,305,282 68%

Budget Performance Report

Year to Date

06/30/2019

Expenditures

		Column Labels		
2000 Waste				
Personnel & Fringes	\$	1,342,243	\$ 1,409,660	95%
Energy/ Utilities	\$	10,226	\$ 1,210	845%
Fleet	\$	1,350,813	\$ 1,694,845	80%
Pass Throughs	\$	34,610	\$ 30,000	115%
Materials and Supplies	\$	34,898	\$ 21,650	161%
Personnel Other	\$	172,777	\$ 119,930	144%
Other Contracted & Professional Services	\$	3,088,144	\$ 3,237,905	95%
Other	\$	57,453	\$ 43,556	132%
2000 Waste Total	\$	6,091,164	\$ 6,558,756	93%
2500 Compost				
Personnel & Fringes	\$	288,701	\$ 28,054	1029%
Fleet	\$	331,518	\$ 15,000	2210%
Pass Throughs	\$	9,132	\$ 9,127	100%
Materials and Supplies	\$	24,761	\$ 12,500	198%
Personnel Other	\$	36,187	\$ 36,800	98%
Other Contracted & Professional Services	\$	239,828	\$ 1,025,000	23%
Other	\$	241,801	\$ 9,700	2493%
2500 Compost Total	\$	1,171,928	\$ 1,136,181	103%
3000 Material Recovery				
Personnel & Fringes	\$	356,190	\$ 396,681	90%
Energy/ Utilities	\$	32,899	\$ 36,500	90%
Fleet	\$	1,001,886	\$ 874,472	115%
Pass Throughs	\$	5,952	\$ 5,957	100%
Materials and Supplies	\$	51,312	\$ 74,400	69%
Personnel Other	\$	30,313	\$ 25,300	120%
Other Contracted & Professional Services	\$	4,218,788	\$ 4,392,006	96%
Other	\$	129,659	\$ 151,652	85%
3000 Material Recovery Total	\$	5,826,999	\$ 5,956,968	98%
6200 Landfill				
Personnel & Fringes	\$	8,567	\$ -	
Energy/ Utilities	\$	39,100	\$ 39,230	100%
Fleet	\$	(1,257)	\$ 16,000	-8%
Materials and Supplies	\$	282	\$ 1,000	28%
Personnel Other	\$	1,082	\$ 2,650	41%
Other Contracted & Professional Services	\$	139,506	\$ 160,000	87%
Other	\$	158,015	\$ 160,330	99%
6200 Landfill Total	\$	345,296	\$ 379,210	91%
061 Public Works Total	\$	14,323,907	\$ 15,336,397	93%
070 Public Services Administration				
1000 Administration				
Personnel & Fringes	\$	305,126	\$ 324,818	94%

Budget Performance Report
Year to Date
06/30/2019

Expenditures

	Column Labels		
Depreciation	\$ 832,076	\$ 942,450	88%
Fleet	\$ 35	\$ -	
Pass Throughs	\$ 316,311	\$ 316,378	100%
Materials and Supplies	\$ 574	\$ 12,500	5%
Other Contracted & Professional Services	\$ 87,889	\$ 70,350	125%
Other	\$ 819,890	\$ 554,280	148%
1000 Administration Total	\$ 2,361,901	\$ 2,220,776	106%
1124 Leave Accr/Depreciation			
Other	\$ 161,791	\$ -	
1124 Leave Accr/Depreciation Total	\$ 161,791	\$ -	
070 Public Services Administration Total	\$ 2,523,693	\$ 2,220,776	114%
071 Solid Waste			
9205 Landfill Plume Remediation			
Personnel & Fringes	\$ 0	\$ -	
Pass Throughs	\$ -	\$ -	
9205 Landfill Plume Remediation Total	\$ 0	\$ -	
9488 T/S Grinder Pump Repl			
Capital Expenses	\$ -	\$ -	
Other	\$ -	\$ -	
9488 T/S Grinder Pump Repl Total	\$ -	\$ -	
9489 Landfill Entrance Improvements			
Personnel & Fringes	\$ 9,519	\$ -	
Capital Expenses	\$ -	\$ (1)	0%
Other Contracted & Professional Services	\$ 111,162	\$ 120,682	92%
Other	\$ (120,681)	\$ -	
9489 Landfill Entrance Improvements Total	\$ -	\$ 120,681	0%
071 Solid Waste Total	\$ 0	\$ 120,681	0%
0072 Solid Waste Total	\$ 17,230,577	\$ 18,128,921	95%
Grand Total	\$ 17,230,577	\$ 18,128,921	95%

Budget Performance Report

Year to Date

06/30/2019

Account Type	Revenue
Process Status	Posted

Revenue

Account	Column Labels		
	Fiscal Calendar 2019		
	Spent	Budget	% Used
0072 Solid Waste			
018 Finance			
Other			
6200 - Investment Income	\$ (477,450)	\$ (268,049)	178%
6203 - Interest/Dividends	\$ (430,484)	\$ -	
Other Total	\$ (907,934)	\$ (268,049)	339%
018 Finance Total	\$ (907,934)	\$ (268,049)	339%
061 Public Works			
1000 Administration			
Other			
6998 - Prior Year Fund Balance	\$ -	\$ (207,597)	0%
Other Total	\$ -	\$ (207,597)	0%
1000 Administration Total	\$ -	\$ (207,597)	0%
2000 Waste			
Other			
5537 - Front Load-Reg Pick-Ups	\$ (2,993,149)	\$ (2,633,733)	114%
5548 - DDA Waste Cart Collection	\$ (104,271)	\$ (132,000)	79%
5549 - Commercial Waste Cart Collection	\$ (65,219)	\$ (55,000)	119%
5550 - Residential Cart Upgrade/Additional	\$ (207,189)	\$ (206,000)	101%
5552 - 3rd Party Disposal Credit	\$ (42,360)	\$ (24,350)	174%
6302 - Gain/Loss Sale of Fixed Asset	\$ (2,250)	\$ -	
6999 - Miscellaneous	\$ (1,149)	\$ (25,000)	5%
7218 - Late Fees	\$ (15,778)	\$ (13,500)	117%
Other Total	\$ (3,431,364)	\$ (3,089,583)	111%
2000 Waste Total	\$ (3,431,364)	\$ (3,089,583)	111%
2500 Compost			
Other			
5533 - Dropoff-Yardwaste	\$ (5,238)	\$ (4,590)	114%
5534 - Food Waste	\$ (957)	\$ (400)	239%
5536 - Sales-Compost	\$ (2,670)	\$ (4,000)	67%
5543 - Sales-Other Solid Waste	\$ (11,800)	\$ (7,500)	157%
5547 - Sales-Mulch	\$ (1,062)	\$ (175)	607%
6999 - Miscellaneous	\$ (700)	\$ -	
Other Total	\$ (22,426)	\$ (16,665)	135%
2500 Compost Total	\$ (22,426)	\$ (16,665)	135%
3000 Material Recovery			
Other			
6998 - Prior Year Fund Balance	\$ -	\$ (41,300)	0%
6999 - Miscellaneous	\$ (4,047)	\$ -	

Budget Performance Report

Year to Date

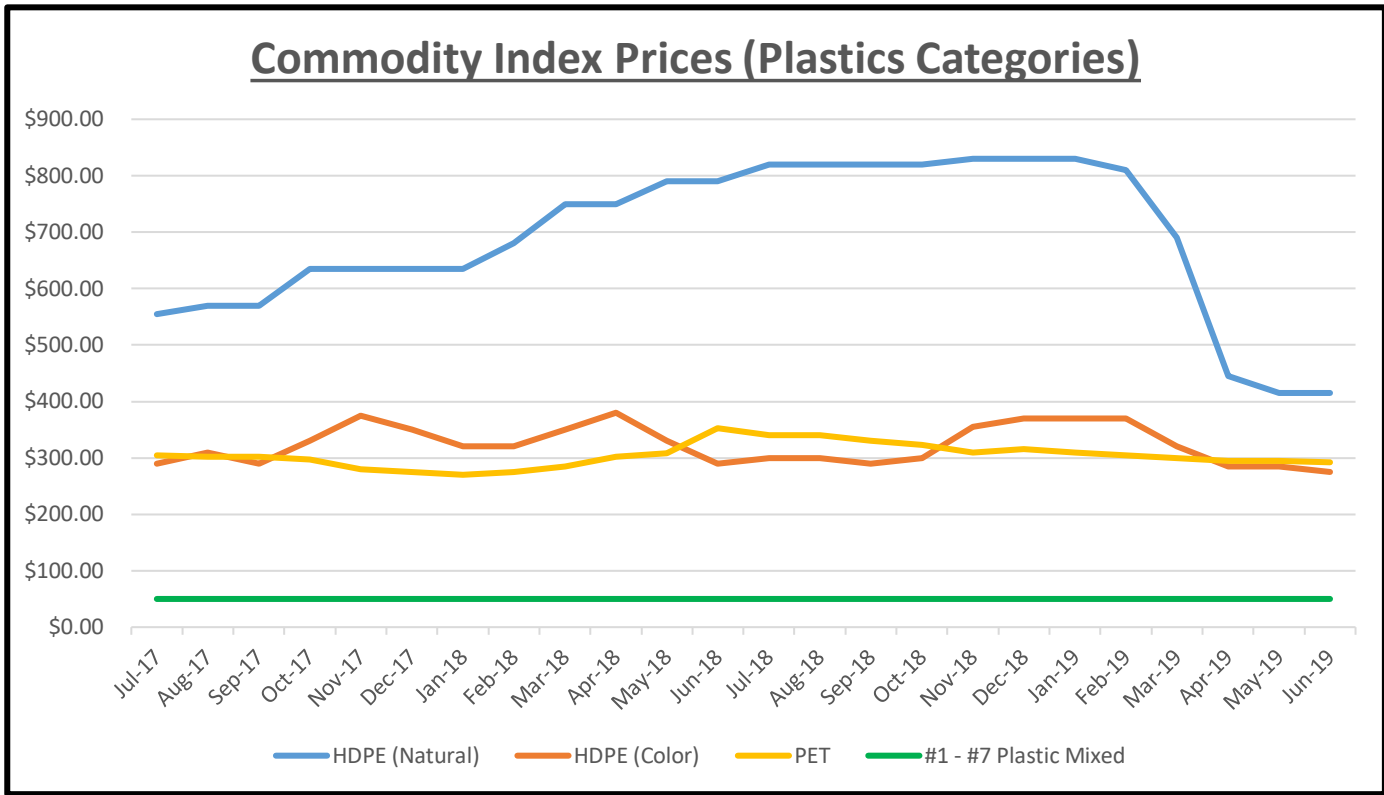
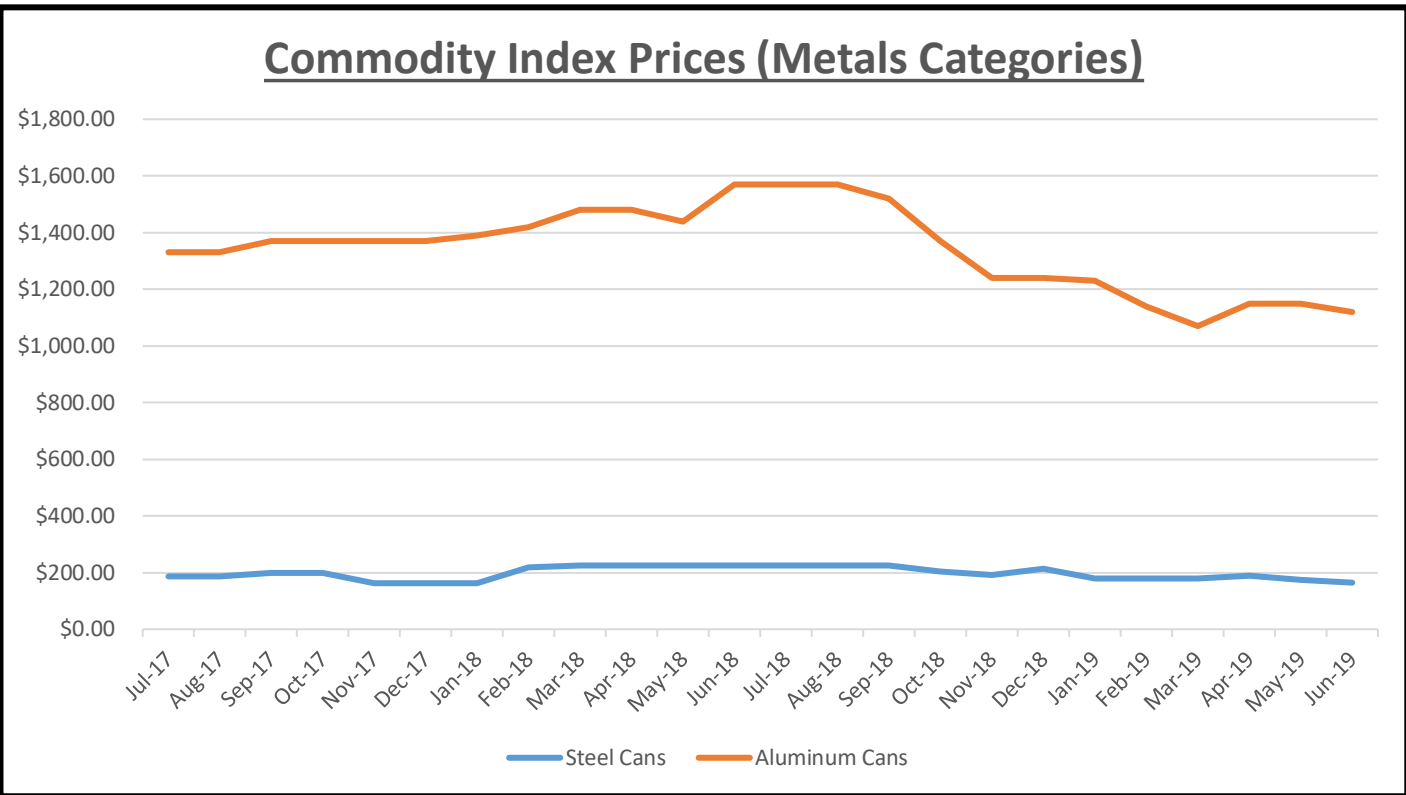
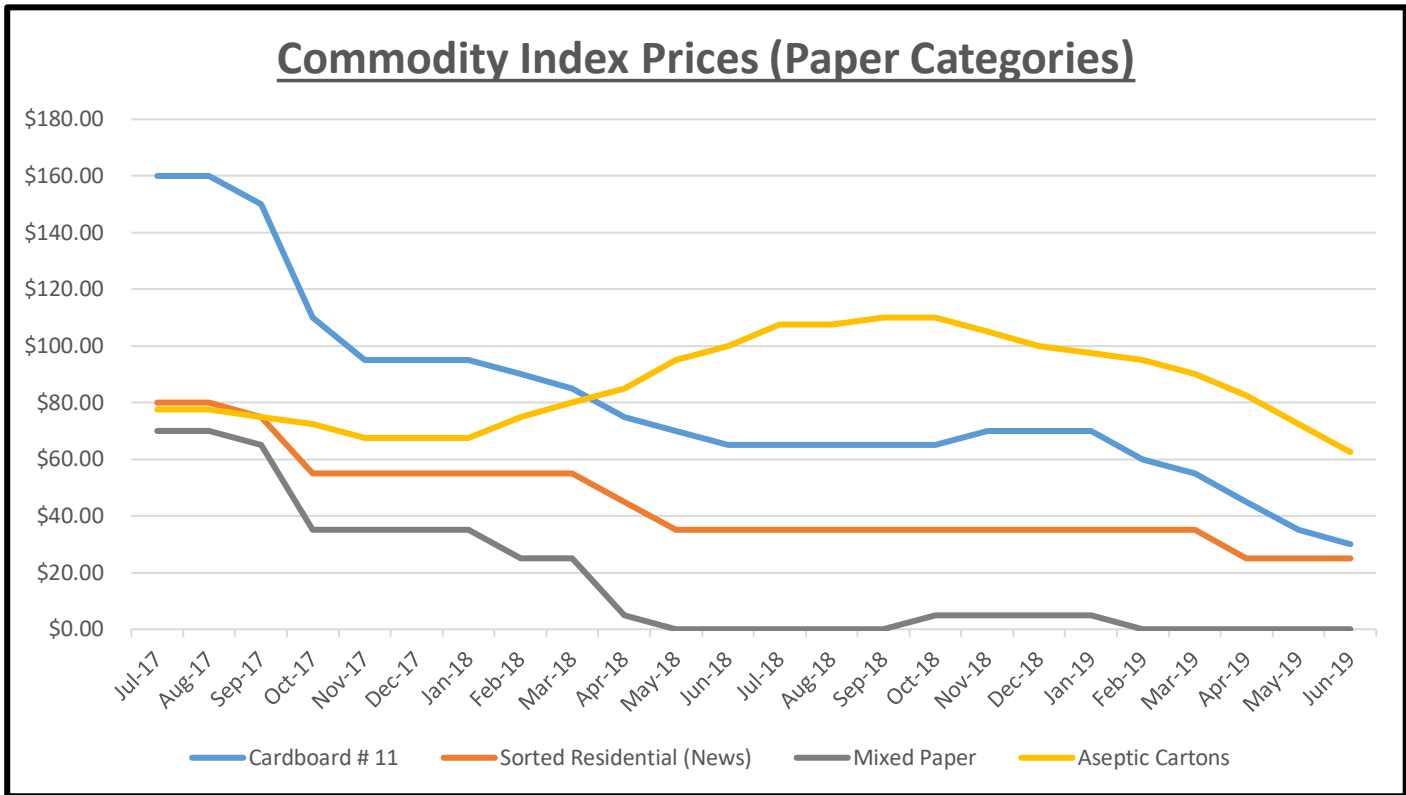
06/30/2019

Revenue

	Column Labels		
Other Total	\$	(4,047)	\$ (41,300) 10%
3000 Material Recovery Total	\$	(4,047)	\$ (41,300) 10%
6200 Landfill			
Other			
5541 - Methane Recovery Reimb	\$	(12,000)	\$ (12,000) 100%
Other Total	\$	(12,000)	\$ (12,000) 100%
6200 Landfill Total	\$	(12,000)	\$ (12,000) 100%
061 Public Works Total	\$	(3,469,838)	\$ (3,367,145) 103%
070 Public Services Administration			
1000 Administration			
Other			
1114 - Refuse Collection Levy	\$	(13,059,525)	\$ (12,899,600) 101%
1340 - Penalties/Delinquent Special Assessments & Taxes	\$	(424)	\$ -
5540 - Recycling Processing Credit	\$	(451,650)	\$ (958,000) 47%
6993 - Bad Debt Recovery	\$	(30)	\$ -
6998 - Prior Year Fund Balance	\$	-	\$ (1,717,638) 0%
6999 - Miscellaneous	\$	(1,676)	\$ -
Other Total	\$	(13,513,304)	\$ (15,575,238) 87%
1000 Administration Total	\$	(13,513,304)	\$ (15,575,238) 87%
070 Public Services Administration Total	\$	(13,513,304)	\$ (15,575,238) 87%
0072 Solid Waste Total	\$	(17,891,076)	\$ (19,210,432) 93%
Grand Total	\$	(17,891,076)	\$ (19,210,432) 93%

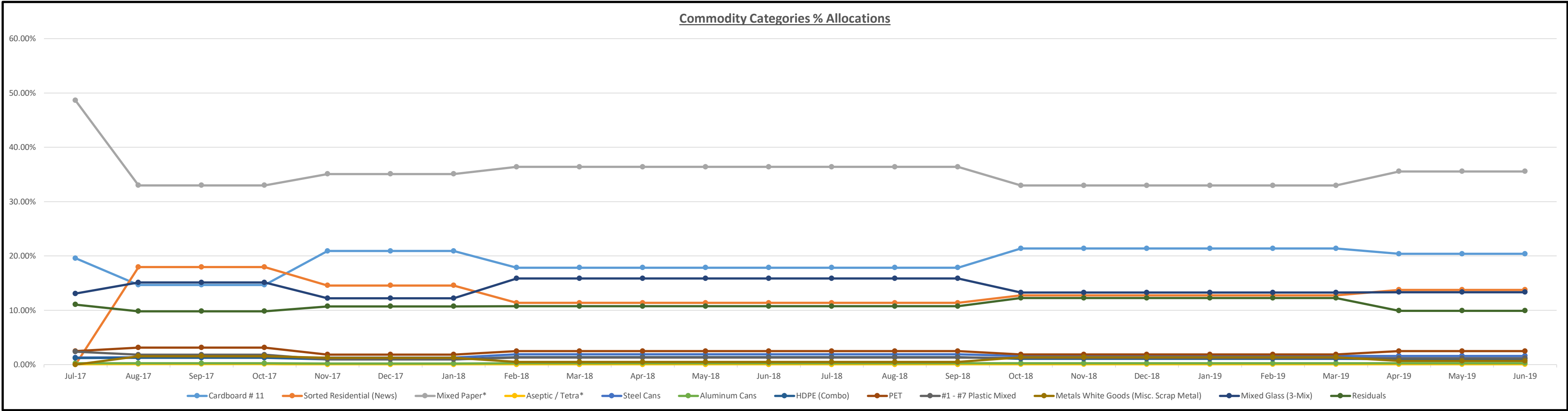
RECYCLING COMMODITY MARKET VALUES AND CITY OF ANN ARBOR CREDITS/REVENUES (FY18 and FY19)

Commodity Category (Index Price(\$/ton))	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	
Cardboard # 11	\$160.00	\$160.00	\$150.00	\$110.00	\$95.00	\$95.00	\$95.00	\$90.00	\$85.00	\$75.00	\$70.00	\$65.00	\$65.00	\$65.00	\$65.00	\$65.00	\$70.00	\$70.00	\$70.00	\$60.00	\$55.00	\$45.00	\$35.00	\$30.00	
Sorted Residential (News)	\$80.00	\$80.00	\$75.00	\$55.00	\$55.00	\$55.00	\$55.00	\$55.00	\$55.00	\$45.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$35.00	\$25.00	\$25.00	\$25.00	
Mixed Paper	\$70.00	\$70.00	\$65.00	\$35.00	\$35.00	\$35.00	\$35.00	\$25.00	\$25.00	\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00	\$5.00	\$5.00	\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Aseptic Cartons	\$77.50	\$77.50	\$75.00	\$72.50	\$67.50	\$67.50	\$67.50	\$75.00	\$80.00	\$85.00	\$95.00	\$100.00	\$107.50	\$107.50	\$110.00	\$110.00	\$105.00	\$100.00	\$97.50	\$95.00	\$90.00	\$82.50	\$72.50	\$62.50	
Steel Cans	\$187.50	\$187.50	\$200.00	\$200.00	\$162.50	\$162.50	\$162.50	\$217.50	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$202.50	\$192.50	\$212.50	\$180.00	\$180.00	\$180.00	\$190.00	\$175.00	\$165.00
Aluminum Cans	\$1,330.00	\$1,330.00	\$1,370.00	\$1,370.00	\$1,370.00	\$1,370.00	\$1,390.00	\$1,420.00	\$1,480.00	\$1,480.00	\$1,440.00	\$1,570.00	\$1,570.00	\$1,570.00	\$1,520.00	\$1,370.00	\$1,240.00	\$1,240.00	\$1,230.00	\$1,140.00	\$1,070.00	\$1,150.00	\$1,150.00	\$1,120.00	
HDPE (Natural)	\$555.00	\$570.00	\$570.00	\$635.00	\$635.00	\$635.00	\$635.00	\$680.00	\$750.00	\$750.00	\$790.00	\$790.00	\$820.00	\$820.00	\$820.00	\$820.00	\$830.00	\$830.00	\$830.00	\$830.00	\$810.00	\$690.00	\$445.00	\$415.00	\$415.00
HDPE (Color)	\$290.00	\$310.00	\$290.00	\$330.00	\$375.00	\$350.00	\$320.00	\$320.00	\$350.00	\$380.00	\$330.00	\$290.00	\$300.00	\$300.00	\$290.00	\$300.00	\$355.00	\$370.00	\$370.00	\$370.00	\$320.00	\$285.00	\$285.00	\$275.00	
PET	\$305.00	\$302.60	\$302.60	\$297.60	\$280.00	\$275.00	\$270.00	\$275.00	\$285.00	\$302.60	\$307.60	\$352.60	\$340.00	\$340.00	\$330.00	\$322.60	\$310.00	\$315.00	\$310.00	\$305.00	\$300.00	\$295.00	\$295.00	\$292.60	
#1 - #7 Plastic Mixed	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	
Metals White Goods (Misc. Scrap Metal)	\$0.00	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	\$42.50	
Mixed Glass (3-Mix)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	(\$12.50)	
Residuals	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	(\$39.50)	



Commodity Category Audit Results (% Allocation)	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Cardboard # 11	19.57%	14.66%	14.66%	14.66%	20.90%	20.90%	20.90%	17.85%	17.85%	17.85%	17.85%	17.85%	17.85%	17.85%	17.85%	21.38%	21.38%	21.38%	21.38%	21.38%	21.38%	20.38%	20.38%	20.38%
Sorted Residential (News)		17.96%	17.96%	17.96%	14.56%	14.56%	14.56%	11.35%	11.35%	11.35%	11.35%	11.35%	11.35%	11.35%	11.35%	12.75%	12.75%	12.75%	12.75%	12.75%	12.75%	13.76%	13.76%	13.76%
Mixed Paper*	48.62%	32.99%	32.99%	32.99%	35.08%	35.08%	35.08%	36.39%	36.39%	36.39%	36.39%	36.39%	36.39%	36.39%	36.39%	32.98%	32.98%	32.98%	32.98%	32.98%	32.98%	35.56%	35.56%	35.56%
Aseptic / Tetra*	0.07%	0.10%	0.10%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06%	0.06%	0.06%	0.06%	0.06%	0.06%	0.03%	0.03%	0.03%
Steel Cans	1.30%	1.37%	1.37%	1.37%	1.29%	1.29%	1.29%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.90%	1.57%	1.57%	1.57%	1.57%	1.57%	1.57%	1.61%	1.61%	1.61%
Aluminum Cans	0.25%	0.25%	0.25%	0.25%	0.20%	0.20%	0.20%	0.26%	0.26%	0.26%	0.26%	0.26%	0.26%	0.26%	0.26%	0.24%	0.24%	0.24%	0.24%	0.24%	0.24%	0.26%	0.26%	0.26%
HDPE (Combo)	1.20%	1.25%	1.25%	1.25%	0.97%	0.97%	0.97%	1.38%	1.38%	1.38%	1.38%	1.38%	1.38%	1.38%	1.38%	1.05%	1.05%	1.05%	1.05%	1.05%	1.05%	1.04%	1.04%	1.04%
PET	2.48%	3.13%	3.13%	3.13%	1.84%	1.84%	1.84%	2.48%	2.48%	2.48%	2.48%	2.48%	2.48%	2.48%	2.48%	1.87%	1.87%	1.87%	1.87%	1.87%	1.87%	2.47%	2.47%	2.47%
#1 - #7 Plastic Mixed	2.38%	1.82%	1.82%	1.82%	0.95%	0.95%	0.95%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.29%	1.20%	1.20%	1.20%	1.20%	1.20%	1.20%	1.17%	1.17%	1.17%
Metals White Goods (Misc. Scrap Metal)		1.54%	1.54%	1.54%	1.27%	1.27%	1.27%	0.49%	0.49%	0.49%	0.49%	0.49%	0.49%	0.49%	0.49%	1.36%	1.36%	1.36%	1.36%	1.36%	1.36%	0.67%	0.67%	0.67%
Mixed Glass (3-Mix)	13.06%	15.12%	15.12%	15.12%	12.21%	12.21%	12.21%	15.86%	15.86%	15.86%	15.86%	15.86%	15.86%	15.86%	15.86%	13.27%	13.27%	13.27%	13.27%	13.27%	13.27%	13.34%	13.34%	13.34%
Residuals	11.06%	9.81%	9.81%	9.81%	10.73%	10.73%	10.73%	10.74%	10.74%	10.74%	10.74%	10.74%	10.74%	10.74%	10.74%	12.26%	12.26%	12.26%	12.26%	12.26%	12.26%	9.91%	9.91%	9.91%

* Aseptic/Tetra included in Mixed Paper for Nov2017 and Feb2018



TOTALS	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Tonnages	973.52	1,340.28	1,054.87	1,295.16	1,291.00	1,130.63	1,301.67	1,010.92	1,150.50	1,155.46	1,200.82	980.35	1,122.24	1,359.71	1,194.48	1,273.83	1,309.05	1,178.28	961.36	1,283.93	1,064.25	1,267.11	1,346.76	1,181.65
MRF Credit	\$81,683.25	\$106,158.35	\$79,600.39	\$69,941.54	\$74,586.63	\$69,707.29	\$74,568.55	\$56,088.71	\$58,500.88	\$46,821.73	\$42,253.28	\$34,646.81	\$40,212.09	\$49,191.35	\$41,957.95	\$42,203.16	\$45,921.68	\$41,363.56	\$33,427.26	\$38,794.07	\$29,892.58	\$32,433.81	\$30,971.99	\$25,280.33
Average Credit Across Categories (\$/ton)	\$83.91	\$79.21	\$75.46	\$54.00	\$57.77	\$61.65	\$57.29	\$55.48	\$50.85	\$40.52	\$35.19	\$35.34	\$35.83	\$36.18	\$35.13	\$33.13	\$35.08	\$35.11	\$34.77	\$30.22	\$28.09	\$25.60	\$23.00	\$21.39

