

Materials Innovation and Recycling Authority

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Materials Innovation and Recycling Authority

Regular Board of Directors

Supplemental Information

Nov. 17, 2016

I. Finance

Informational Reports (Period ending Sept. 30, 2016 (Attachment A)).

CSWS Financials	MIRA Cash Flow
CSWS Electricity	CSWS Improvement Fund
CSWS Solid Waste Summary	Authority Budget
CSWS Recycling Summaries	
Property Division Financials	

II. Summary of Project Activities

1. An update is provided on each project's monthly operations for the period ending Oct. 31, 2016 (Attachment B).
2. An update is provided on waste deliveries to all the projects for the period ending Oct. 31, 2016 (Attachment C).

TAB A



CSWS Financials - This report reflects the budget versus actual financial performance of the CSWS for the current month and on a year to date basis. This is an accrual basis report in that revenues are recognized when earned and expenses are recognized when incurred.

As indicated in this report, total operating revenue for September was \$4.77 million (6% below budget). Spot waste, Other Contract waste and electric sales were the primary areas of deficit. A 32% shortfall in Other Contract Waste was more than offset by surplus Hauler Contract waste. Total operating expenses were \$4.28 million (5% under budget) in September. All categories of expense experienced a budget surplus other than MIRA Facility Operating expense and NAES On Site Incentive Compensation. Year to date the CSWS has operating income of \$1.35 million which is \$0.66 million worse than budget. Reserve contributions were \$0.93 million in September and \$3.35 million year to date (on budget). See "MIRA Cash Flow" for additional information.

CSWS Electricity - This report reflects CSWS budget versus actual electricity production, revenue and price for the current month and year to date. Energy revenue reconciles to CSWS Financials. Effective September 1, 2016 through March 31, 2017, the first 20 MW of CSWS energy is sold under fixed contract at the rate of \$.03836 / Kwh and remaining energy is sold in the wholesale energy market pending execution of any additional fixed price energy transactions pursuant to MIRA's new flexible energy hedging program with Nextera.

As indicated in this report, while wholesale energy prices were substantially below budget in September, the portion of energy hedged brought the actual total average energy price received by CSWS up to \$0.0329 per kwh which was \$0.0003 (1%) below budget. Plant production of energy was 3.1 million kwh (9.4%) below budget in September. The plant operated at full capacity for 17 out of 30 days. Boiler 11 was down during 7 days for a cleaning outage and tube leaks. Boiler 12 was down during 6 days due to auger and grate issues. Boiler 13 was down during just 3 days for unspecified reasons. Turbines 5 was brought down during 3 days due to only 1 boiler being in operation. Turbine 6 ran uninterrupted for the entire month of September. Price and production combine to produce a \$0.11 million (10%) shortfall in electricity revenue for the month of September. On a year to date basis, in comparison to this period of fiscal year 2016, price and production are down 27% and up 11%, respectively.

CSWS Solid Waste Summary - This report reflects the budget versus actual MSW tons delivered, revenue and price per ton for member towns, other contracts, waste haulers and spot.

September deliveries totaled 53,835 tons which is 6,082 tons (10.2%) under budget. There were 7,098 tons of spot waste budgeted for delivery in September in comparison to no deliveries. Other contract waste deliveries were 32% below budget and these deficits were partially offset by surpluses in participating town and hauler waste. The per ton prices for Other Contract waste are \$0.29 per ton above budget year to date and up in comparison to FY 2016. Prices for Waste Hauler tons are steady at \$64 consistent with CSWS established tip fees. Price and delivery volume by contract type combine to produce total solid waste delivery revenue presently 4.9% below budget on a year to date basis.

CSWS Monthly Financial Report

Period Ending: **September 30, 2016**

	Current Month		Variance Better (Worse) than Budget		Year to Date		Variance Better (Worse) than Budget	
	Budget	Actual	\$	%	Budget	Actual	\$	%
REVENUES								
Member Towns	\$ 2,074,882	\$ 2,084,937	\$ 10,055	0%	\$ 6,383,004	\$ 6,300,181	\$ (82,823)	-1%
Other Contracts	\$ 450,724	\$ 305,057	\$ (145,667)	-32%	\$ 1,352,172	\$ 1,122,686	\$ (229,486)	-17%
Hauler Contracts	\$ 776,832	\$ 1,012,093	\$ 235,261	30%	\$ 2,321,357	\$ 3,005,961	\$ 684,604	29%
Spot Waste	\$ 283,924	\$ -	\$ (283,924)	n/a	\$ 913,652	\$ -	\$ (913,652)	n/a
Other Operating Charges	\$ -	\$ (846)	\$ (846)	n/a	\$ -	\$ -	\$ -	n/a
Member Service Fee	\$ 3,368	\$ 3,512	\$ 144	4%	\$ 10,182	\$ 10,681	\$ 499	5%
Metal Sales & Excess Residue	\$ 102,771	\$ 60,269	\$ (42,502)	-41%	\$ 306,658	\$ 200,642	\$ (106,016)	-35%
Bulky Waste	\$ 10,405	\$ 15,081	\$ 4,676	45%	\$ 44,475	\$ 39,096	\$ (5,379)	-12%
Recycling Facility	\$ 76,675	\$ 131,182	\$ 54,507	71%	\$ 255,235	\$ 335,273	\$ 80,038	31%
Electricity Sales	\$ 1,089,871	\$ 979,697	\$ (110,174)	-10%	\$ 3,923,356	\$ 2,712,306	\$ (1,211,049)	-31%
Other Energy Markets	\$ 186,000	\$ 159,336	\$ (26,664)	-14%	\$ 558,000	\$ 425,627	\$ (132,373)	-24%
Misc. (Interest, Fees, Other)	\$ 5,000	\$ 16,969	\$ 11,969	239%	\$ 17,745	\$ 28,636	\$ 10,891	61%
TOTAL ACCRUED REVENUES	\$ 5,060,452	\$ 4,767,287	\$ (293,165)	-6%	\$ 16,085,834	\$ 14,181,087	\$ (1,904,747)	-12%
EXPENDITURES								
Administrative Expenses	\$ 234,202	\$ 212,947	\$ 21,255	9%	\$ 819,549	\$ 654,476	\$ 165,073	20%
Operational Expenses	\$ 224,667	\$ 161,547	\$ 63,120	28%	\$ 736,791	\$ 680,344	\$ 56,447	8%
PILOTs & Fees	\$ 225,000	\$ 217,672	\$ 7,328	3%	\$ 690,000	\$ 673,733	\$ 16,267	2%
Waste Transport	\$ 1,153,059	\$ 975,517	\$ 177,542	15%	\$ 3,551,900	\$ 3,087,512	\$ 464,388	13%
Recycling Facility	\$ 50,147	\$ 38,300	\$ 11,847	24%	\$ 156,235	\$ 123,560	\$ 32,675	21%
Murphy Road Operations	\$ 10,608	\$ 10,608	\$ -	0%	\$ 31,824	\$ 31,825	\$ (1)	0%
MIRA Facilities Operating Exp.	\$ 64,580	\$ 164,688	\$ (100,108)	-155%	\$ 193,740	\$ 365,578	\$ (171,838)	-89%
NAES Contract Operating Charges	\$ 2,232,120	\$ 2,138,193	\$ 93,927	4%	\$ 6,934,884	\$ 6,233,399	\$ 701,485	10%
NAES On-Site Incentive Comp.	\$ 76,086	\$ 153,970	\$ (77,884)	-102%	\$ 228,258	\$ 306,142	\$ (77,884)	-34%
NAES Management Fees	\$ 102,750	\$ 69,837	\$ 32,913	32%	\$ 308,250	\$ 260,099	\$ 48,151	16%
Transfer Station - Ellington	\$ 1,875	\$ 110	\$ 1,765	94%	\$ 5,625	\$ 4,672	\$ 953	17%
Transfer Station - Essex	\$ 47,542	\$ 46,593	\$ 949	2%	\$ 142,626	\$ 139,101	\$ 3,525	2%
Transfer Station - Torrington	\$ 45,616	\$ 42,901	\$ 2,715	6%	\$ 136,848	\$ 131,845	\$ 5,003	4%
Transfer Station - Watertown	\$ 47,208	\$ 44,590	\$ 2,618	6%	\$ 141,624	\$ 137,902	\$ 3,722	3%
TOTAL ACCRUED EXPENDITURES	\$ 4,515,460	\$ 4,277,473	\$ 237,987	5%	\$ 14,078,154	\$ 12,830,188	\$ 1,247,966	9%
OPERATING INCOME								
(Before Reserves / Transfers)	\$ 544,992	\$ 489,814	\$ (55,178)	-10%	\$ 2,007,680	\$ 1,350,900	\$ (656,781)	-33%
DISTRIBUTION OF CSWS OPERATING INCOME								
Debt Service Fund	\$ -	\$ -	\$ -	n/a	\$ -	\$ -	\$ -	n/a
CSWS Improvement Fund	\$ 925,000	\$ 925,000	\$ -	0%	\$ 3,350,000	\$ 3,350,000	\$ -	0%
CSWS Risk Fund	\$ -	\$ -	\$ -	n/a	\$ -	\$ -	\$ -	n/a
CSWS Legal Reserve	\$ -	\$ -	\$ -	n/a	\$ -	\$ -	\$ -	n/a
MIRA Severance Reserve	\$ -	\$ -	\$ -	n/a	\$ -	\$ -	\$ -	n/a
TOTAL DISTRIBUTIONS	\$ 925,000	\$ 925,000	\$ -	0%	\$ 3,350,000	\$ 3,350,000	\$ -	0%
SURPLUS / (DEFICIT)	\$ (380,008)	\$ (435,186)	\$ (55,178)	15%	\$ (1,342,320)	\$ (1,999,100)	\$ (656,781)	49%

Materials Innovation and Recycling Authority
 FY 2017 Board of Directors Financial Report

[Narrative](#)

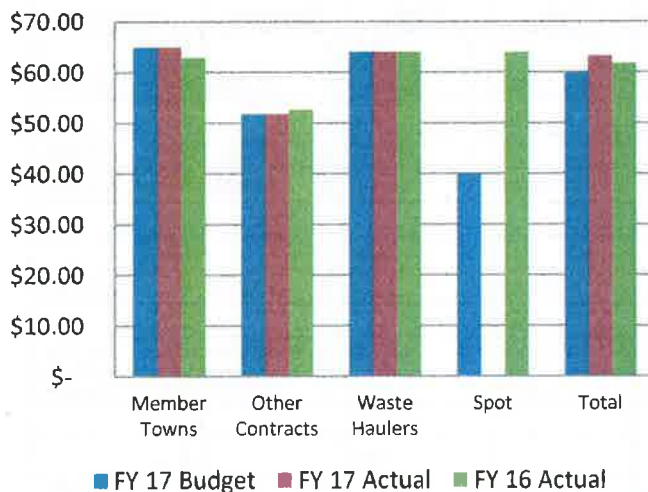
CSWS Solid Waste Summary

Period Ending:

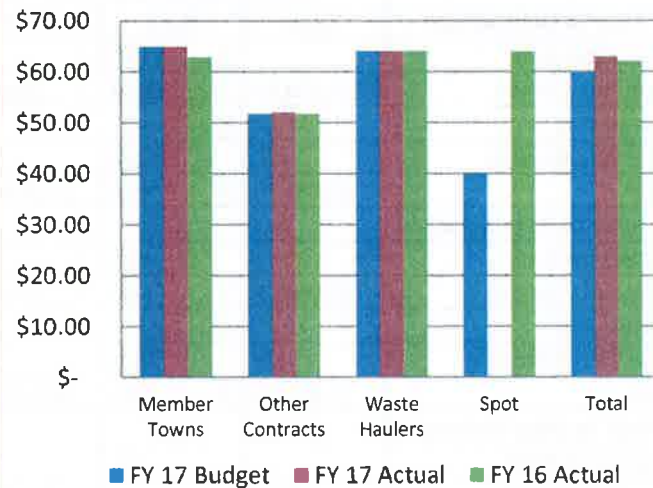
September 30, 2016

FY 17 Budget	Current Month			Year To Date		
	Tons	Revenue	Price	Tons	Revenue	Price
Member Towns	31,970	\$ 2,074,882	\$ 64.90	98,364	\$ 6,383,004	\$ 64.89
Other Contracts	8,712	\$ 450,724	\$ 51.74	26,135	\$ 1,352,172	\$ 51.74
Waste Haulers	12,138	\$ 776,832	\$ 64.00	36,271	\$ 2,321,357	\$ 64.00
Spot	7,098	\$ 283,924	\$ 40.00	22,841	\$ 913,652	\$ 40.00
Total	59,917	\$ 3,586,362	\$ 59.86	183,611	\$ 10,970,184	\$ 59.75
FY 17 Actual	Tons	Revenue	Price	Tons	Revenue	Price
Member Towns	32,126	\$ 2,084,937	\$ 64.90	97,095	\$ 6,300,181	\$ 64.89
Other Contracts	5,896	\$ 305,057	\$ 51.74	21,578	\$ 1,122,686	\$ 52.03
Waste Haulers	15,812	\$ 1,012,093	\$ 64.01	46,964	\$ 3,005,961	\$ 64.01
Spot	-	\$ -	\$ -	-	\$ -	\$ -
Total	53,835	\$ 3,402,087	\$ 63.20	165,637	\$ 10,428,828	\$ 62.96
Variance	Tons	Revenue	Price	Tons	Revenue	Price
Member Towns	157	\$ 10,055	\$ (0.00)	(1,269)	\$ (82,823)	\$ (0.00)
Other Contracts	(2,816)	\$ (145,667)	\$ 0.00	(4,556)	\$ (229,486)	\$ 0.29
Waste Haulers	3,674	\$ 235,261	\$ 0.01	10,693	\$ 684,604	\$ 0.01
Spot	(7,098)	\$ (283,924)	\$ (40.00)	(22,841)	\$ (913,652)	\$ (40.00)
Total	(6,082)	\$ (184,275)	\$ 3.34	(17,974)	\$ (541,356)	\$ 3.21
Total % Var.	-10.2%	-5.1%	5.6%	-9.8%	-4.9%	5.4%

Current Month Average Price / Ton



YTD Average Price / Ton



CSWS Recycling Facility (Exports)

Period Ending:

September 30, 2016

	Current Month			Year to Date		
	Budget	Actual	Variance	Budget	Actual	Variance
Delivery Revenue	\$ 51,353	\$ 83,765	\$ 32,413	\$ 174,886	\$ 224,807	\$ 49,921
Export Revenue	\$ 25,322	\$ 47,417	\$ 22,095	\$ 80,349	\$ 110,466	\$ 30,118
Total	\$ 76,675	\$ 131,182	\$ 54,507	\$ 255,235	\$ 335,273	\$ 80,038
Total % Var.			71%			31%

Current Month Budget	Exports CSWS Sourced			Exports FCR Sourced			Export Revenue
	Tons	Rate	Revenue	Tons	Rate	Revenue	
Residential ONP	1,725.00	\$ -	\$ -	392	\$ -	\$ -	\$ -
Residential OCC	676.36	\$ 10.00	\$ 6,764	152	\$ 2.00	\$ 305	\$ 7,069
Residential Containers	1,106.55	\$ 15.00	\$ 16,598	247	\$ 3.00	\$ 740	\$ 17,338
Commercial	5.93	\$ 50.00	\$ 297	77	\$ 8.00	\$ 619	\$ 915
Total	3,513.84	\$ 6.73	\$ 23,658	869	\$ 1.92	\$ 1,664	\$ 25,322
Current Month Actual							
Residential ONP	2,205.82	\$ 9.00	\$ 19,852	499	\$ 1.80	\$ 899	\$ 20,751
Residential OCC	993.86	\$ 24.00	\$ 23,853	225	\$ 4.80	\$ 1,080	\$ 24,932
Residential Containers	1,539.10	\$ 0.48	\$ 742	348	\$ 0.10	\$ 34	\$ 776
Commercial	6.72	\$ 43.92	\$ 295	64	\$ 10.42	\$ 663	\$ 958
Total	4,745.50	\$ 9.43	\$ 44,742	1,136	\$ 2.35	\$ 2,675	\$ 47,417
Current Month Variance							
Residential ONP	480.82	\$ 9.00	19,852	107	\$ 1.80	899	\$ 20,751
Residential OCC	317.50	\$ 14.00	17,089	72	\$ 2.80	775	\$ 17,864
Residential Containers	432.55	\$ (14.52)	(15,856)	102	\$ (2.90)	(707)	\$ (16,563)
Commercial	0.79	\$ (6.08)	(1)	(14)	\$ 2.42	44	\$ 43
Total	1,231.66	\$ 2.70	\$ 21,084	267	\$ 0.44	\$ 1,011	\$ 22,095

Year To Date Budget	Exports CSWS Sourced			Exports FCR Sourced			Total Revenue
	Tons	Rate	Revenue	Tons	Rate	Revenue	
Residential ONP	5,433.76	\$ -	\$ -	1,478	\$ -	\$ -	\$ -
Residential OCC	2,130.53	\$ 10.00	\$ 21,305	575	\$ 2.00	\$ 1,149	\$ 22,455
Residential Containers	3,490.89	\$ 15.00	\$ 52,363	929	\$ 3.00	\$ 2,787	\$ 55,151
Commercial	18.70	\$ 50.00	\$ 935	226	\$ 8.00	\$ 1,808	\$ 2,743
Total	11,073.88	\$ 6.74	\$ 74,604	3,208	\$ 1.79	\$ 5,745	\$ 80,349
Year To Date Actual							
Residential ONP	6,487.30	\$ 6.43	\$ 41,694	1,371	\$ 1.32	\$ 1,806	\$ 41,694
Residential OCC	2,806.56	\$ 19.97	\$ 56,038	598	\$ 4.03	\$ 2,411	\$ 56,038
Residential Containers	4,408.21	\$ 1.24	\$ 5,471	944	\$ 0.22	\$ 212	\$ 5,471
Commercial	12.83	\$ 53.66	\$ 688	230	\$ 9.33	\$ 2,145	\$ 688
Total	13,714.90	\$ 7.58	\$ 103,892	3,142	\$ 2.09	\$ 6,574	\$ 110,466
Year To Date Variance							
Residential ONP	1,053.54	\$ 6.43	41,694	(108)	\$ 1.32	1,806	\$ 43,500
Residential OCC	676.03	\$ 9.97	34,733	23	\$ 2.03	1,261	\$ 35,995
Residential Containers	917.32	\$ (13.76)	(46,892)	15	\$ (2.78)	(2,575)	\$ (49,467)
Commercial	(5.87)	\$ 3.66	(247)	4	\$ 1.33	337	\$ 91
Total	2,641.02	\$ 0.84	\$ 29,289	(66)	\$ 0.30	\$ 829	\$ 30,118

Property Division Monthly Financial Report

Period Ending: **September 30, 2016**

REVENUES	Current Month		Variance Better (Worse) than Budget		Year to Date		Variance Better (Worse) than Budget	
	Budget	Actual	\$	%	Budget	Actual	\$	%
	Jets Electric:							
Capacity Payments	\$ 479,528	\$ 436,547	\$ (42,981)	-9%	\$ 1,438,584	\$ 1,461,184	\$ 22,600	2%
VARs Payments	\$ 4,014	\$ 41,919	\$ 37,905	944%	\$ 12,042	\$ 51,876	\$ 39,834	331%
Reserve Credits	\$ 50,000	\$ 97,382	\$ 47,382	95%	\$ 150,000	\$ 728,058	\$ 578,058	385%
Real Time Energy	\$ 19,916	\$ 4,567	\$ (15,349)	-77%	\$ 59,748	\$ 266,978	\$ 207,230	347%
Total Jets Electric	\$ 553,458	\$ 580,415	\$ 26,957	5%	\$ 1,660,374	\$ 2,508,097	\$ 847,723	51%
Lease Income:								
CSWS Murphy Road	\$ 10,608	\$ 10,608	\$ -	0%	\$ 31,825	\$ 31,825	\$ -	0%
Golf Center	\$ 1,513	\$ 1,513	\$ -	0%	\$ 4,538	\$ 4,538	\$ -	0%
Wheelabrator Lease	\$ 35,946	\$ 35,946	\$ -	0%	\$ 107,837	\$ 107,837	\$ -	0%
Jets Billboard	\$ -	\$ -	\$ -	n/a	\$ 45,350	\$ 45,350	\$ -	0%
Total Lease Income	\$ 48,067	\$ 48,067	\$ -	0%	\$ 189,550	\$ 189,550	\$ -	0%
South Central Facility Capacity	\$ 5,083	\$ -	\$ (5,083)	n/a	\$ 15,249	\$ -	\$ (15,249)	n/a
Education & Trash Museum	\$ -	\$ 112	\$ 112	n/a	\$ -	\$ 112	\$ 112	n/a
Interest Income	\$ 2,500	\$ 7,971	\$ 5,471	219%	\$ 2,500	\$ 7,971	\$ 5,471	219%
TOTAL ACCRUED REVENUES	\$ 609,108	\$ 636,565	\$ 27,457	5%	\$ 1,867,673	\$ 2,705,730	\$ 838,057	45%
EXPENDITURES								
MIRA Non-Personnel Services	\$ 19,727	\$ 11,101	\$ 8,626	44%	\$ 59,181	\$ 57,473	\$ 1,708	3%
MIRA Personnel Services	\$ 57,884	\$ 49,048	\$ 8,836	15%	\$ 202,553	\$ 155,941	\$ 46,612	23%
Railroad Maintenance	\$ 833	\$ -	\$ 833	n/a	\$ 2,499	\$ 9,551	\$ (7,052)	-282%
211 Murphy Road Ops. Center	\$ 16,333	\$ 3,939	\$ 12,394	76%	\$ 48,999	\$ 17,196	\$ 31,803	65%
1410 Honey Spot Road	\$ 7,250	\$ 2,795	\$ 4,455	61%	\$ 21,750	\$ 12,062	\$ 9,688	45%
171 Murphy Road	\$ 2,913	\$ 2,924	\$ (11)	0%	\$ 8,739	\$ 4,422	\$ 4,317	49%
Education & Trash Museum	\$ -	\$ -	\$ -	n/a	\$ -	\$ -	\$ -	n/a
South Central Facility Operating C	\$ 5,083	\$ -	\$ 5,083	n/a	\$ 15,249	\$ -	\$ 15,249	n/a
Jets Operating Charges	\$ 182,474	\$ 33,706	\$ 148,768	82%	\$ 550,498	\$ 465,630	\$ 84,868	15%
TOTAL ACCRUED EXPENDITURES	\$ 292,497	\$ 103,513	\$ 188,984	65%	\$ 909,468	\$ 722,275	\$ 187,194	21%
OPERATING INCOME (Before Reserves / Transfers)	\$ 316,611	\$ 533,052	\$ 216,441	68%	\$ 958,205	\$ 1,983,455	\$ 1,025,251	107%
DISTRIBUTION OF PD OPERATING INCOME								
PD Improvement Fund	\$ 79,167	\$ 79,167	\$ 0	0%	\$ 237,500	\$ 237,501	\$ 1	0%
TOTAL DISTRIBUTIONS	\$ 79,167	\$ 79,167	\$ 0	0%	\$ 237,500	\$ 237,501	\$ 1	0%
SURPLUS / (DEFICIT)	\$ 237,444	\$ 453,885	\$ 216,441	91%	\$ 720,705	\$ 1,745,954	\$ 1,025,250	142%

**Materials Innovation and Recycling Authority
 FY 2017 Board of Directors Financial Report
 CSWS Improvement Fund Status**

[Narrative](#)

Period Ending:

September 30, 2016

Budget Analysis		
Adopted Annual CSWS Contribution ⁽¹⁾		\$ 10,320,705
Adopted PD General Fund Transfer ⁽²⁾		\$ -
Total Contributions		\$ 10,320,705
Less: Year to Date Purchase Orders:		
Waste Processing Facility	\$ 25,000	
Power Block Facility	\$ 2,733,431	
Recycling		
Transfer Stations		
Rolling Stock		
True Up Amounts Returned		
Total Net YTD Purchase Orders		\$ 2,758,431
Equals: Unencumbered Year to Date Budget		\$ 7,562,274

Cash Reserve Analysis		
Period End Improvement Fund Cash Balance		\$ 1,649,279
+ FY Remaining Contributions	\$ 6,045,705	
- Approved Expenditures Not Paid		
- Unencumbered Budget (-)	\$ (7,562,274)	
Projected Year End Improvement Fund Balance		\$ 132,710
Period End Debt Service Fund Cash Balance ⁽³⁾		\$ 3,875
+ FY Remaining Contributions	\$ -	
Projected Year End Debt Service Fund Balance		\$ 3,875
Projected Year End Carry Forward		\$ 136,585

Reconciliation To Flow Of Funds Statement		
Period End Improvement Fund Cash Balance		\$ 1,649,279
Funding Due From Period End Receipts	\$ 925,000	
Flow of Funds Statement Balance		\$ 2,574,279

⁽¹⁾ Represents the initial annual adopted budget for CSWS contributions to the CSWS Improvement Fund of \$10,320,705.

⁽²⁾ The FY 2017 adopted budgets do not include a transfer of funds from Property Division General Fund to CSWS Improvement Fund.

⁽³⁾ Funds were required for payment of final FY 2015 turbine outage expense.

THE AUTHORITY - FINANCIAL RESULTS

For the Period Ending September 30, 2016

DETAILS	MONTH TO DATE				YEAR TO DATE			
	Budget	Actual	Variance		Budget	Actual	Variance	
Line EXPENDITURES								
1 Total Personnel Services	\$ 351,716	\$ 324,568	\$ 27,148	7.72%	\$ 1,230,768	\$ 1,079,735	\$ 151,033	12.27%
2 LESS: MIRA Direct Personnel	\$ 138,606	\$ 92,928	\$ 45,677	32.95%	\$ 485,026	\$ 368,415	\$ 116,611	24.04%
3 Authority Indirect Personnel	\$ 213,110	\$ 231,640	\$ (18,529)	-8.69%	\$ 745,742	\$ 711,321	\$ 34,422	4.62%
4 ADD: Authority Indirect Non-Personnel Services	\$ 93,597	\$ 47,860	\$ 45,737	48.87%	\$ 327,528	\$ 147,801	\$ 179,727	54.87%
5 LESS: Miscellaneous Income	\$ -	\$ -	\$ -	0.00%	\$ -	\$ 1,930	\$ (1,930)	0.00%
SUBTOTAL AUTHORITY ALLOCATION	\$ 306,708	\$ 279,500	\$ 27,208	8.87%	\$ 1,073,270	\$ 857,191	\$ 216,079	20.13%
AUTHORITY ALLOCATION								
6 Mid-Connecticut Post Project Closure	\$ 18,740	\$ 17,023	\$ 1,717	9.16%	\$ 65,577	\$ 52,320	\$ 13,257	20.22%
7 Property Division	\$ 56,564	\$ 39,508	\$ 17,056	30.15%	\$ 197,936	\$ 121,425	\$ 76,511	38.65%
8 Landfill Division	\$ 10,060	\$ 9,139	\$ 921	9.16%	\$ 35,203	\$ 28,087	\$ 7,116	20.21%
9 Connecticut Solid Waste System (CSWS)	\$ 359,949	\$ 212,947	\$ 147,002	40.84%	\$ 1,259,580	\$ 654,477	\$ 605,104	48.04%
SUBTOTAL ALLOCATED	\$ 445,313	\$ 278,617	\$ 166,696	37.43%	\$ 1,558,296	\$ 856,309	\$ 701,987	45.05%
TOTAL EXPENDITURES	\$ 445,313	\$ 372,428	\$ 72,885	16.37%	\$ 1,558,296	\$ 1,225,606	\$ 332,690	21.35%

Line YTD VARIANCE EXPLANATION

- 1 Reflects total amount for MIRA Direct and Authority Indirect Personnel; Favorable due to reduction in budgeted positions.
- 2 Favorable due to reduction in budgeted positions and benefits costs being charged 100% to the Authority budget.
- 4 Favorable due to timing of expenses.
- 9 Favorable due to timing of expenses.

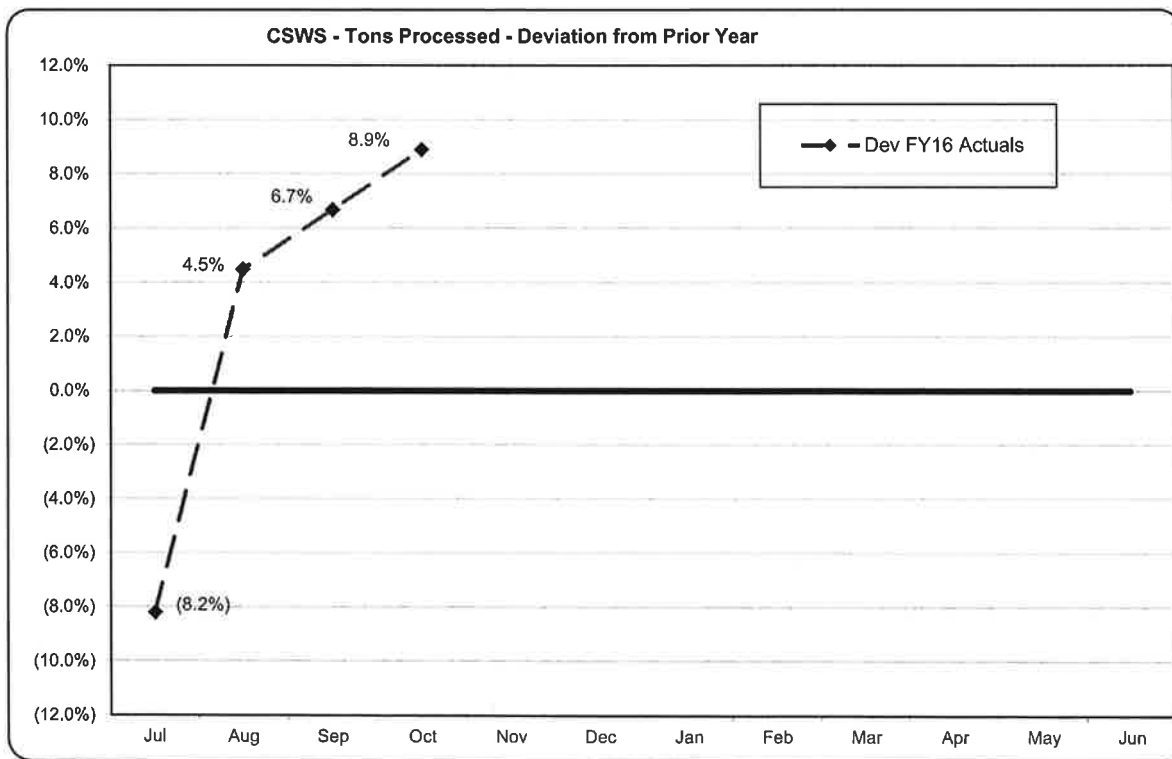
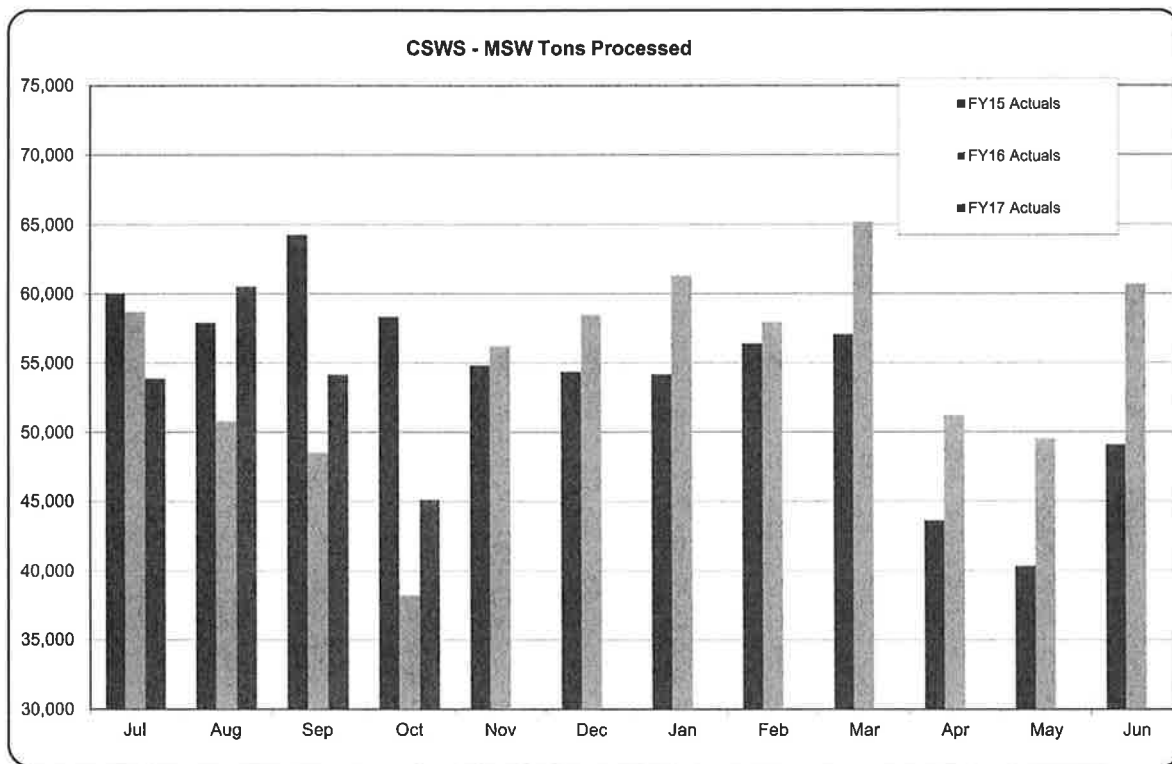
TAB B

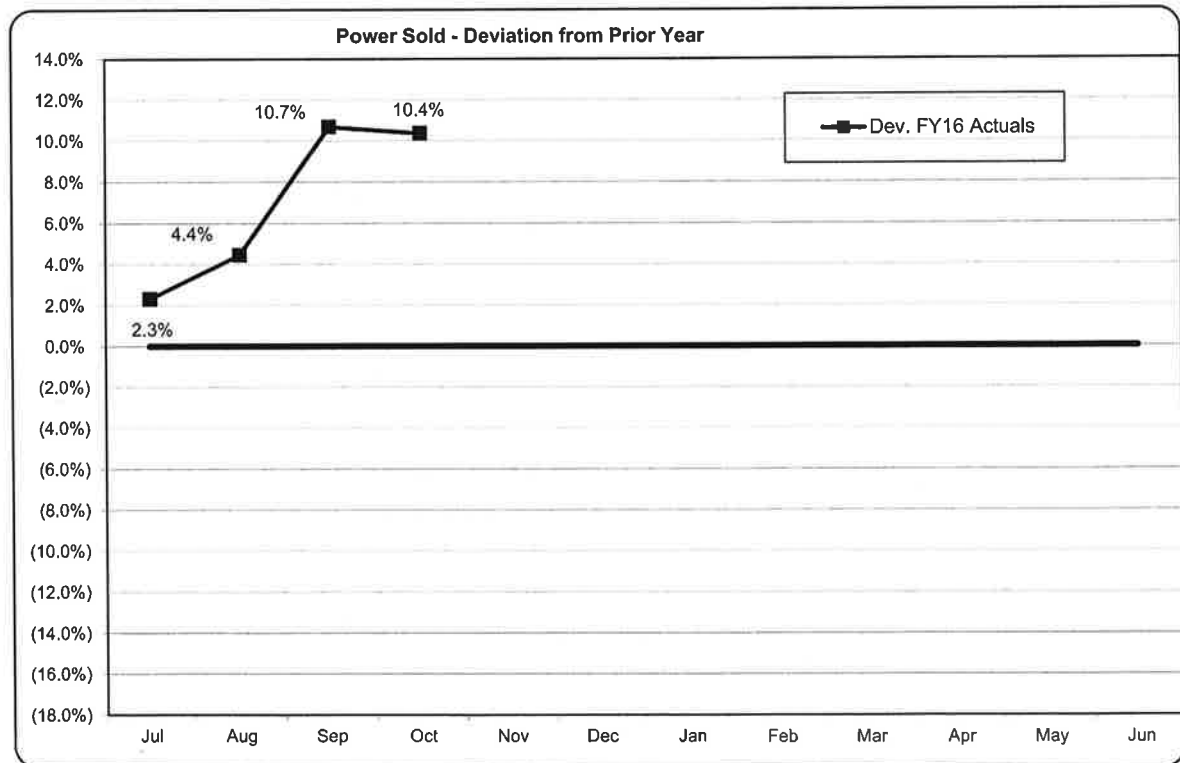
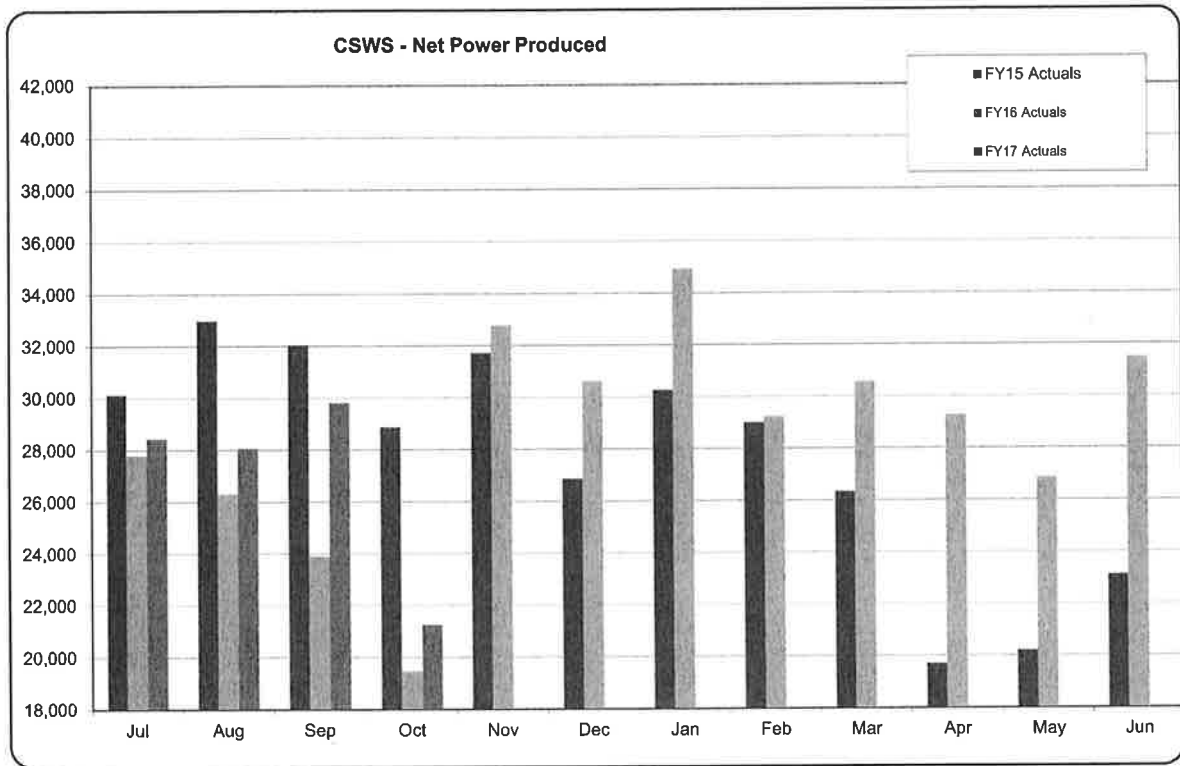
MATERIALS INNOVATION AND RECYCLING AUTHORITY

October 2016 Monthly Operational Summary

This report provides information on the operations of the CSWS waste-to-energy plant along with the South Meadows Jets. The following table provides a summary of key operating parameters.

Project/ Item	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Change	2016	2017	Change	Oct 15	Oct 16	Change
CSWS									
Tons MSW Processed	650,642	656,915	1.0%	196,307	213,776	8.9%	38,254	45,164	18.1%
Steam (klbs)	4,125,108	4,324,840	4.8%	1,264,322	1,432,559	13.3%	255,055	279,961	9.8%
(% MCR)	68.0%	71.2%		124.6%	277.8%		49.5%	54.3%	
Power Net MWhr)	331,356	343,284	3.6%	97,494	107,604	10.4%	19,482	21,264	9.1%
South Meadow Jets									
Net MWH	1,837	1,635	(11.0%)	922	743	(19.4%)	48	49	2.4%





Unit Capacity Factors

Month	Boiler 11	Boiler 12	Boiler 13
Jul 16	70%	71%	79%
Aug 16	73%	74%	73%
Sep 16	73%	75%	89%
Oct 16	54%	48%	61%

Unscheduled Downtime

Date Began	Date Ended	Boiler	Duration (Hrs.)	Reason
07/01/16	07/01/16	11	11.00	Fuel Feed Problems
07/02/16	07/03/16	12	0.20	Broken Coupling
07/05/16	07/09/16	11	24.20	Unscheduled Cold Iron
07/05/16	07/09/16	12	12.80	Unscheduled Cold Iron
07/05/16	07/09/16	13	18.60	Unscheduled Cold Iron
07/16/16	07/17/16	12	8.10	Low drum level
07/16/16	07/19/16	13	73.00	Plugged baghouse compartments
07/16/16	07/17/16	12	8.10	Low drum level
07/16/16	07/19/16	13	73.00	Plugged baghouse compartments
08/02/16	08/02/16	13	3.00	Pans w/flat tires
08/09/16	08/10/16	11	25.70	Unscheduled Cold Iron
08/09/16	08/10/16	12	22.60	Unscheduled Cold Iron
08/09/16	08/11/16	13	43.10	Unscheduled Cold Iron
08/15/16	08/15/16	11	3.40	Fuel Feed Problems
08/15/16	08/19/16	12	50.10	Air Heater Tube Leak
08/22/16	08/22/16	11	15.60	Auger Drive coupling bad
08/25/16	08/25/16	12	1.40	Air Heater Tube Leak
08/27/16	08/31/16	11	83.00	Waterwall and tube leaks
08/31/16	08/31/16	12	0.10	Auger screw bearing and Air Heater Plug
08/31/16	08/31/16	13	22.90	Not listed
09/01/16	09/03/16	12	63.20	Auger screw bearing and Air Heater Plug/Sleeving, Outlet damper
09/01/16	09/01/16	13	15.00	Broken Grate, SSC derailed
09/07/16	09/08/16	12	29.70	Outlet damper
09/21/16	09/21/16	12	9.90	RDF Feed chute
09/28/16	09/30/16	11	51.90	PSH & SSH Leaks
09/29/16	09/30/16	13	27.60	Waterwall leak
10/01/16	10/03/16	11	61.00	PSH & SSH Leaks
10/01/16	10/01/16	13	13.10	Waterwall leak
10/06/16	10/07/16	11	8.40	S02 Removal-Debris in slurry piping
10/23/16	10/26/16	13	67.90	Rear Waterwall Tube Leak
10/24/16	10/27/16	11	84.20	15K Superheater leak

Scheduled Downtime

Date Began	Date Ended	Boiler	Duration (Hrs.)	Work Performed
07/12/16	07/15/16	12	75.90	Scheduled Cleaning Outage
07/25/16	07/29/16	11	112.90	Scheduled Cleaning Outage
07/12/16	07/15/16	12	75.90	Scheduled Cleaning Outage
08/15/16	08/18/16	13	89.20	Scheduled Cleaning
09/12/16	09/15/16	11	94.90	Scheduled Cleaning
10/08/16	10/13/16	11	129.20	Cold Iron Outage
10/03/16	10/18/16	12	369.00	Annual Major Outage
10/08/16	10/13/16	13	127.40	Cold Iron Outage

SOUTH MEADOWS JETS
October 2016 Monthly Operational Summary

Date	Net Generation (MWH)	Comment
07/06/16	62.48	Summer CCA Testing
07/06/16	46.46	Summer CCA Testing
07/06/16	32.96	Dispatched by ISO-NE
07/07/16	52.38	Summer CCA Testing
07/25/16	50.48	Summer CCA Testing
08/01/16	136.20	MVAR testing
08/11/16	223.57	Dispatched by ISO-NE
09/07/16	89.31	Dispatched by ISO-NE
10/18/16	48.94	Dispatched by ISO-NE

TAB C

MATERIALS INNOVATION AND RECYCLING AUTHORITY

Monthly Customer MSW and Recyclables Deliveries

October-16

Monthly Customer Delivery Report

Project/Contract	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Growth	2016	2017	Growth	Oct 15	Oct 16	Growth
CSWS MSW									
Tier 1	343,044	346,503	1%	119,268	117,310	(2%)	29,847	28,082	(6%)
Tier 2	25,423	13,214	(48%)	4,550	4,471	(2%)	1,102	1,031	(6%)
Tier 3	2,481	2,413	(3%)	807	830	3%	208	197	(5%)
Tier 4	0	9,502	-	0	4,968	-	0	1,168	-
Non-Processible MSW	700	1,299	86%	291	763	162%	207	325	57%
Hauler Contract	255,136	251,700	(1%)	71,037	82,531	16%	16,741	13,990	(16%)
Contract (FCR Residue)	5,531	6,258	13%	1,710	2,899	70%	428	767	79%
Ferrous Residue (excess)	3,726	3,792	2%	1,438	958	(33%)	405	120	(70%)
In-State Spot	24,533	15,104	(38%)	0	0	-	0	0	-
Out-of-State Spot	1,669	477	(71%)	37	0	(100%)	0	0	-
MSW TOTAL	662,243	650,262	(2%)	199,138	214,730	8%	48,938	45,679	(7%)

CSWS Recyclables									
Tier 1	43,193	44,722	4%	14,897	14,680	(1%)	3,679	3,501	(5%)
Tier 3	561	623	11%	196	213	8%	45	52	15%
Tier 4	0	2,333	-	0	1,120	-	0	268	-
Hauler Contract	8,326	9,711	17%	3,206	3,392	6%	812	831	2%
Contractor Sourced	12,506	14,896	19%	5,048	4,581	(9%)	1,430	1,090	(24%)
In-State Spot	0	0	-	0	0	-	0	0	-
Out-of-State Spot	0	0	-	0	0	-	0	0	-
RECYC. TOTAL	64,586	72,284	12%	23,347	23,986	3%	5,966	5,742	(4%)

CSWS MSW Diversions And Exports

Type	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Growth	2016	2017	Growth	Oct 15	Oct 16	Growth
TOTAL TONNAGE	9,758	4,947	(49%)	4,025	0	(100%)	0	0	-

Breakdown of Participating towns attached

**Connecticut Solid Waste System
Monthly Customer MSW Deliveries
CSWS Tier 1 Participating Municipality MSW**

Town	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Growth	2016	2017	Growth	Oct 15	Oct 16	Growth
Avon	11,120	11,268	1%	3,946	3,756	(5%)	1,017	866	(15%)
Beacon Falls	3,024	2,635	(13%)	775	922	19%	189	232	23%
Bethlehem	1,551	1,508	(3%)	539	514	(5%)	131	124	(5%)
Bloomfield	14,795	15,679	6%	5,327	5,547	4%	1,405	1,355	(4%)
Canaan	430	441	3%	156	142	(9%)	34	35	4%
Canton	4,481	4,680	4%	1,594	1,710	7%	395	396	0%
Clinton	4,790	4,803	0%	1,639	1,766	8%	348	379	9%
Colebrook	622	602	(3%)	233	228	(2%)	66	39	(40%)
Cornwall	493	505	3%	186	184	(1%)	37	40	7%
Deep River	3,639	3,489	(4%)	1,249	1,116	(11%)	297	267	(10%)
Durham/Middlefield	5,751	6,295	9%	2,014	2,870	43%	560	742	33%
East Granby	3,129	2,869	(8%)	976	975	(0%)	241	263	9%
East Hampton	6,122	6,146	0%	2,104	2,216	5%	516	533	3%
Ellington	5,253	5,139	(2%)	1,729	1,848	7%	415	418	1%
Essex	3,062	3,078	1%	1,152	1,113	(3%)	289	249	(14%)
Farmington	14,329	14,661	2%	4,871	5,012	3%	1,241	1,255	1%
Glastonbury	18,836	19,255	2%	6,558	6,506	(1%)	1,708	1,568	(8%)
Goshen	1,307	1,345	3%	503	490	(3%)	105	110	5%
Granby	5,413	4,791	(11%)	1,568	1,548	(1%)	376	343	(9%)
Haddam	3,193	3,372	6%	1,110	1,110	(0%)	253	266	5%
Hartford	85,433	84,428	(1%)	28,649	28,163	(2%)	7,320	6,983	(5%)
Harwinton	1,904	2,030	7%	708	657	(7%)	188	151	(20%)
Killingworth	1,912	1,919	0%	672	629	(6%)	155	147	(5%)
Litchfield*	0	4,860	-	1,708	1,693	(1%)	436	417	(4%)
Lyme	751	755	1%	268	266	(1%)	62	66	6%
Marlborough	2,431	2,276	(6%)	765	688	(10%)	182	188	4%
Middlebury	2,611	2,349	(10%)	806	778	(3%)	208	179	(14%)
Naugatuck	14,993	15,157	1%	4,865	5,288	9%	1,277	1,271	(0%)
Norfolk	762	728	(4%)	277	264	(5%)	65	58	(11%)
North Canaan	2,241	2,232	(0%)	832	726	(13%)	182	169	(7%)
Old Lyme	3,275	3,276	0%	1,289	1,273	(1%)	252	238	(6%)
Old Saybrook	9,744	9,852	1%	3,614	3,243	(10%)	876	675	(23%)
Oxford	7,730	6,204	(20%)	2,771	1,224	(56%)	732	290	(60%)
Portland	3,619	3,510	(3%)	1,253	1,217	(3%)	313	270	(14%)
Rocky Hill	11,671	11,458	(2%)	3,862	3,668	(5%)	866	906	5%
Roxbury	710	704	(1%)	246	238	(3%)	59	56	(5%)
RRDD#1	10,878	11,014	1%	3,971	3,857	(3%)	947	894	(6%)
Salisbury/Sharon	3,224	3,292	2%	1,196	1,179	(1%)	279	275	(1%)
Simsbury	14,348	13,698	(5%)	4,761	4,368	(8%)	1,245	1,046	(16%)
Torrington	24,005	23,792	(1%)	8,169	7,883	(3%)	2,004	1,882	(6%)
Watertown	10,816	11,204	4%	3,761	3,615	(4%)	925	843	(9%)
Wethersfield	14,025	14,634	4%	4,993	5,254	5%	1,242	1,232	(1%)
Woodbury	4,624	4,569	(1%)	1,603	1,566	(2%)	409	363	(11%)
TOTAL TIER 1 PARTICIPATING MUNICIPALITIES	343,044	346,503	1%	119,268	117,310	(2%)	29,847	28,082	(6%)

*Litchfield switched from Tier 2 to Tier 1 Municipality 7/1/2015

CSWS Tier 2 Participating Municipality MSW

Town	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Growth	2016	2017	Growth	Oct 15	Oct 16	Growth
Litchfield*	5,201	0	(100%)	0	0	-	0	0	-
Manchester	12,955	13,214	2%	4,550	4,471	(2%)	1,102	1,031	(6%)
South Windsor**	7,267	0	(100%)	0	0		0	0	-
TOTAL TIER 2 PARTICIPATING MUNICIPALITIES	25,423	13,214	(48%)	4,550	4,471	(2%)	1,102	1,031	(6%)

*Litchfield switched from Tier 2 to Tier 1 Municipality 7/1/2015

** Municipality left MIRA after FY15

CSWS Tier 3 Participating Municipality MSW

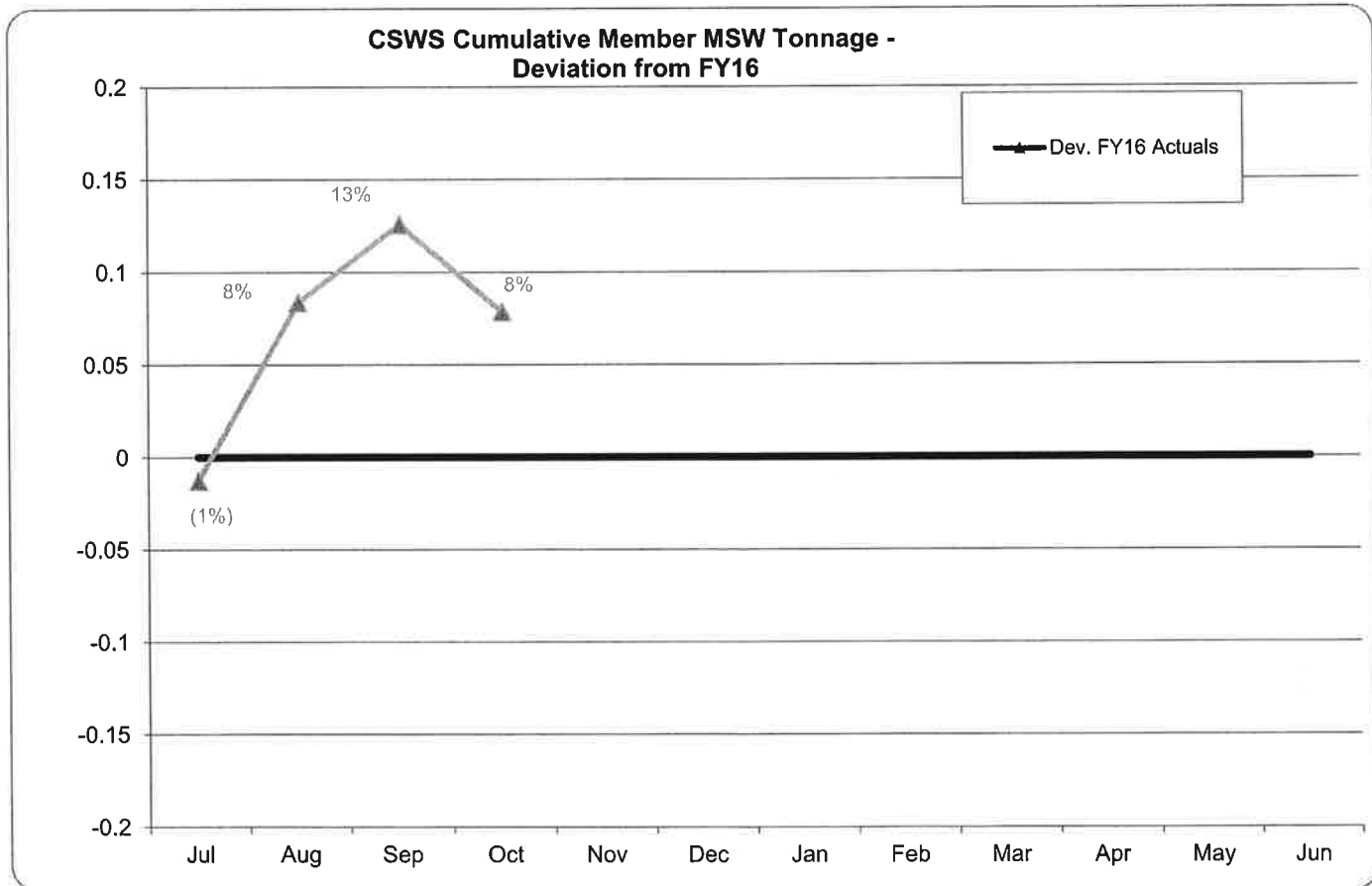
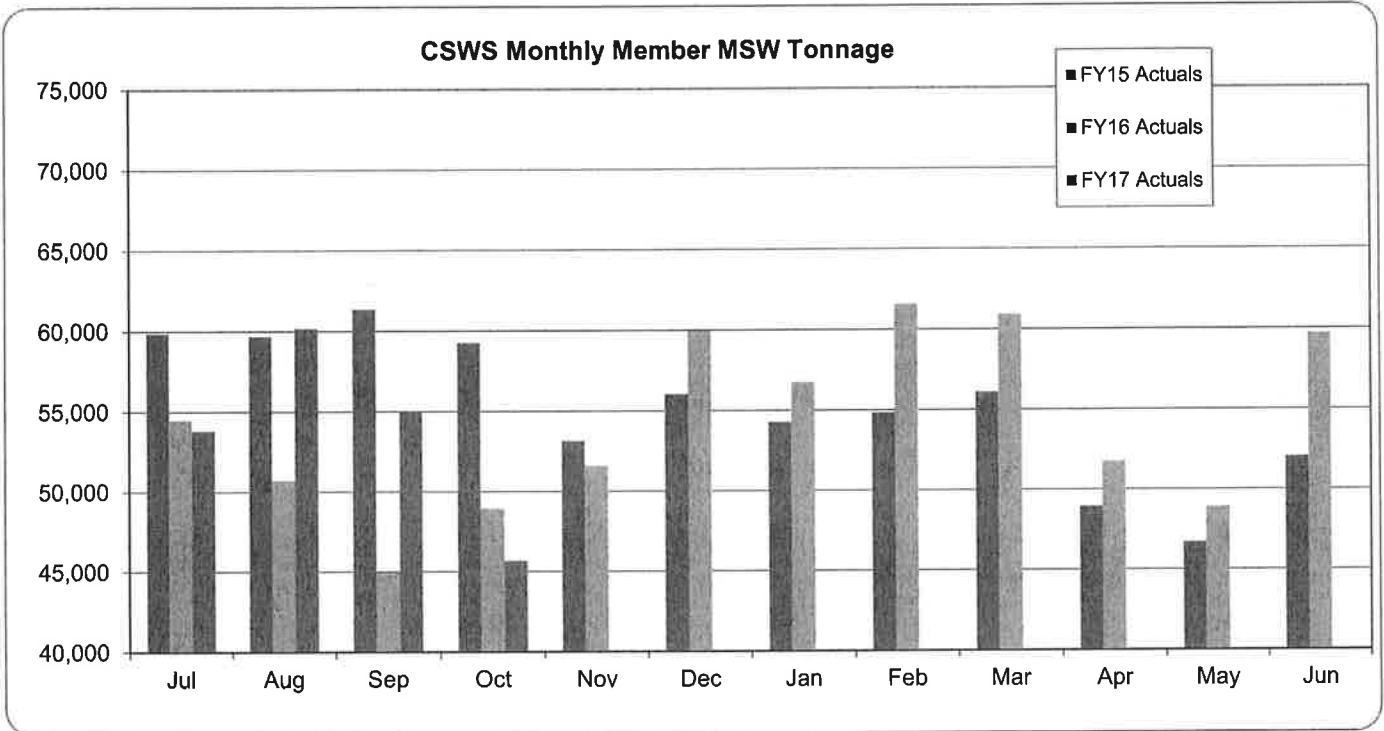
Town	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Growth	2016	2017	Growth	Oct 15	Oct 16	Growth
Chester	19	14	(28%)	5	5	8%	1	1	(3%)
Thomaston	2,462	2,400	(3%)	802	825	3%	207	196	(5%)
TOTAL TIER 3 PARTICIPATING MUNICIPALITIES	2,481	2,413	(3%)	807	830	3%	208	197	(5%)

CSWS Tier 4 Participating Municipality MSW

Town	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Growth	2016	2017	Growth	Oct 15	Oct 16	Growth
East Hartford***	0	9,502	-	0	4,968	-	0	1,168	-
TOTAL TIER 4 PARTICIPATING MUNICIPALITIES	0	9,502	-	0	4,968	-	0	1,168	-

*** Municipality signed with MIRA beginning 11/1/15

CSWS MSW Trends



Connecticut Solid Waste System
Monthly Customer Recyclables Deliveries
CSWS Tier 1 Participating Municipality Recycling

Town	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Growth	2016	2017	Growth	Oct 15	Oct 16	Growth
Avon	2,096	2,115	1%	702	641	(9%)	159	163	2%
Beacon Falls	321	373	16%	117	117	(0%)	34	29	(16%)
Bethlehem	330	346	5%	118	111	(6%)	31	25	(21%)
Bloomfield	1,717	1,733	1%	573	569	(1%)	135	132	(3%)
Canaan	90	90	0%	28	28	(0%)	6	6	(7%)
Canton	971	981	1%	332	304	(8%)	89	66	(26%)
Clinton	1,148	1,181	3%	404	383	(5%)	102	86	(16%)
Colebrook	188	179	(5%)	61	61	(1%)	17	13	(25%)
Cornwall	147	148	1%	63	55	(13%)	14	7	(51%)
Deep River	425	510	20%	169	158	(6%)	46	36	(20%)
East Granby	442	465	5%	162	230	41%	35	63	77%
East Hampton	948	1,012	7%	338	346	2%	91	72	(21%)
Ellington	1,415	1,426	1%	458	429	(6%)	106	112	5%
Essex	658	734	12%	235	233	(1%)	55	57	4%
Farmington	2,281	2,697	18%	850	867	2%	230	212	(8%)
Glastonbury	3,687	3,637	(1%)	1,201	1,136	(5%)	311	268	(14%)
Goshen	320	323	1%	123	118	(4%)	24	25	4%
Granby	1,461	1,457	(0%)	498	450	(10%)	135	101	(25%)
Haddam	645	683	6%	219	231	5%	55	57	3%
Hartford	5,373	5,600	4%	1,887	1,919	2%	456	435	(5%)
Harwinton	515	504	(2%)	164	171	5%	47	39	(16%)
Killingworth	464	472	2%	156	159	2%	44	42	(4%)
Litchfield	0	814	-	273	282	4%	65	76	16%
Marlborough	684	654	(4%)	220	201	(9%)	51	58	14%
Middlebury	873	840	(4%)	269	270	0%	71	65	(9%)
Norfolk	168	169	1%	61	60	(2%)	13	13	0%
North Canaan	231	235	2%	83	87	6%	19	20	3%
Old Lyme	8	0	(100%)	0	0	-	0	0	-
Old Saybrook	1,105	1,082	(2%)	384	394	3%	83	85	2%
Oxford	780	668	(14%)	227	221	(3%)	57	56	(1%)
Portland	610	573	(6%)	184	180	(2%)	42	44	4%
Rocky Hill	1,656	1,692	2%	544	533	(2%)	137	132	(4%)
Roxbury	184	182	(1%)	61	61	0%	10	16	52%
RRDD#1	1,799	1,815	1%	615	564	(8%)	135	137	2%
Salisbury-Sharon	1,079	1,053	(2%)	384	392	2%	94	90	(4%)
Torrington	3,004	2,956	(2%)	1,002	934	(7%)	239	226	(5%)
Watertown	1,758	1,706	(3%)	568	602	6%	149	154	3%
Wethersfield	2,710	2,775	2%	903	888	(2%)	229	216	(6%)
Woodbury	901	840	(7%)	264	293	11%	64	71	11%
TOTAL TIER 1 MUNICIPALITIES	43,193	44,722	4%	14,897	14,680	(1%)	3,679	3,501	(5%)

*Litchfield became a Tier 1 Municipality 7/1/2015.

CSWS Tier 3 Participating Municipality Recycling

Town	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Growth	2016	2017	Growth	Oct 15	Oct 16	Growth
Chester	0	0	-	0	0	-	0	0	-
Thomaston	561	623	11%	196	213	8%	45	52	15%
TOTAL TIER 3 MUNICIPALITIES	561	623	11%	196	213	8%	45	52	15%

CSWS Tier 4 Participating Municipality Recycling

Town	Fiscal Year			Fiscal Year-To-Date			Monthly		
	2015	2016	Growth	2016	2017	Growth	Oct 15	Oct 16	Growth
East Hartford	0	2,333	-	0	1,120	-	0	268	-
TOTAL TIER 4 MUNICIPALITIES	0	2,333	-	0	1,120	-	0	268	-

CSWS Recyclables Trends

