

MIRA
REGULAR BOARD MEETING
February 23, 2017

Materials Innovation Recycling Authority
Regular Board of Directors Meeting
Feb. 23, 2017
9:30 AM

I. Pledge of Allegiance

II. Public Portion

A ½ hour public portion will be held and the Board will accept written testimony and allow individuals to speak for a limit of three minutes. The regular meeting will commence if there is no public input.

III. Minutes

1. Board Action will be sought for Approval of the Regular Jan. 26, 2017 Board Meeting Minutes (Attachment 1).

IV. Finance Committee Report

2. Board Action will be sought for Resolution Regarding the Authority Budget (Attachment 2).
3. Board Action will be sought for Resolution Regarding - Fiscal Year 2018 Landfill Division Operating and Capital Budget (Attachment 3).

V. Chairman and President's Reports

VII. Organizational Synergy & Human Resources Report

VII. Executive Session

An Executive Session will be held to discuss pending litigation, trade secrets, personnel matters, security matters, pending RFP's, pending RFP responses, real estate matters, and feasibility estimates and evaluations including Strategic Plan updates.

Materials Innovation and Recycling Authority

200 Corporate Place, Suite 202

Rocky Hill, CT 06067

Telephone (860)757-7700 - Fax (860)757-7743

MEMORANDUM

TO: MIRA Board of Directors

FROM: Moira Kenney, Assistant HR Manager/Board Administrator

DATE: Feb. 17, 2017

RE: Notice of Regular Board Meeting

There will be a Regular Meeting of the Materials Innovation and Recycling Authority Board of Directors on Thurs. Feb. 23, 2017, at 9:30 a.m. The meeting will be available to the public in the Board Room at 200 Corporate Place, Suite 202, Rocky Hill, CT 06067.

Please notify this office of your attendance at (860) 757-7787 at your earliest convenience.

TAB 1

MATERIALS INNOVATION AND RECYCLING AUTHORITY

FOUR HUNDRED AND SIXTY-FIRST

JAN. 26, 2017

A regular meeting of the Materials Innovation and Recycling Authority Board of Directors was held on Thurs. Jan. 26, 2017, in the Board Room at 200 Corporate Place, Suite 202, Rocky Hill, CT 06067. Those present were:

Directors: Chairman Don Stein
Vice-Chairman Dick Barlow
John Adams
Marilynn Cruz-Aponte (present until 10:30 a.m.)
Ralph Eno
Jim Hayden
Bob Painter
Scott Shanley

Present from MIRA in Hartford:

Tom Kirk, President
Mark Daley, Chief Financial Officer
Jeffrey Duvall, Director of Budgets and Forecasting
Peter Egan, Director of Operations and Environmental Affairs
Laurie Hunt, Director of Legal Services
Moira Kenney, Assistant HR Manager/Board Administrator

Others Present: Jonathan Bilmes of the Town of Enfield, BBRFOC, Ann Catino, Esq., Peggy Diaz, Esq., and John Pizzimenti, USA Hauling.

Chairman Stein called the meeting to order at 9:35 a.m. and said a quorum was present.

PUBLIC PORTION

Chairman Stein said the agenda allowed for a public portion in which the Board would accept written testimony and allow individuals to speak for a limit of three minutes.

Johnathan Bilmes, the Director of Public Works from the Town of Enfield greeted the Board. He asked that MIRA management and the MIRA Board consider re-opening the Ellington Transfer Station. Mr. Bilmes reviewed several viable reasons why re-opening the transfer station may be beneficial to MIRA. The Board asked that management review the costs and challenges involved in the re-opening process and to bring that information to the Finance Committee for further investigation.

APPROVAL OF THE DEC. 15, 2016 MEETING MINUTES

Chairman Stein requested a motion to approve the minutes of the Dec. 15, 2016, Board Meeting. Director Hayden made the motion which was seconded by Director Eno.

The motion to approve the minutes as amended was approved unanimously by roll call. Chairman Stein, Vice-Chairman Barlow, Director Adams, Director Cruz-Aponte, Director Eno, Director Hayden, Director Painter and Director Shanley voted yes.

Directors	Aye	Nay	Abstain
Chairman Stein	X		
Vice-Chairman Barlow	X		
John Adams	X		
Marilynn Cruz-Aponte	X		
Ralph Eno	X		
Jim Hayden	X		
Bob Painter	X		

RESOLUTION REGARDING AMENDMENT AND RESTATEMENT OF THE AUTHORITY'S BYLAWS

Chairman Stein requested a motion on the above referenced item. The motion was made by Director Adams and seconded by Director Painter.

Director Adams said the Policies & Procurement Committee has reviewed this item twice and that the edits consist primarily of technical corrections which came about as a result of the CRRA to MIRA re-branding. Vice-Chairman Barlow said an additional edit is that all meetings, including the sub-committee meetings, will now have opportunity for public comment.

Vice-Chairman Barlow said he believes the telephonic meeting policy should be incorporated into the by-laws for clarity. He said he feels procedurally someone should be able to look at the by-laws and understand this process.

Chairman Stein asked if the section related to Ad-Hocs is still necessary as there are no Ad-Hocs currently on the Board and there is no likelihood of another joining. Ms. Hunt said as Ad-Hocs are still referenced in the statutes the language should remain in the by-laws. She said she will return to the Policies & Procurement Committee the following month with a decision to rescind the telephonic policy.

The motion previously made and seconded was approved by roll call. Chairman Stein, Director Adams, Director Cruz-Aponte, Director Eno, Director Hayden, and Director Painter voted yes. Vice-Chairman Barlow voted no.

Directors	Aye	Nay	Abstain
Chairman Stein	X		
Vice-Chairman Barlow		X	
John Adams	X		
Marilynn Cruz-Aponte	X		
Ralph Eno	X		
Jim Hayden	X		
Bob Painter	X		

RESOLUTION REGARDING AGREEMENT FOR METALS RECOVERY AND MARKETING SERVICES

Chairman Stein requested a motion on the above referenced item. The motion was made by Director Adams and seconded by Vice-Chairman Barlow.

RESOLVED: The President is authorized to enter into an agreement with wTe Recycling, Inc. for the transportation, processing and marketing of municipal solid waste pre-and-post-combustion ferrous and maintenance scrap metals generated at the CSWS South Meadows Resource Recovery Facility, substantially as presented as discussed at this meeting.

Mr. Egan said for the last twenty years the waste to energy plant has generated a waste stream of ferrous metal which is removed from shredded garbage with a ferrous magnet and then transported to trailers and shipped off site for its value. He said for almost all of that time period a facility in Massachusetts has taken the metal, wTe Recycling, Inc.

Mr. Egan said for many years an RFP was issued by MIRA with wTe as the sole respondent. He said beginning in 2010 he contacted regulatory authorities in surrounding states to determine if they had issued any solid waste permits to scrap metal dealers that would allow them to take MIRA's ferrous metal stream, which contains a significant amount of msw. Mr. Egan said the response was always that there are no facilities which can take this particular type of ferrous metal, which is why only wTe has responded to the RFP.

Mr. Egan replied as a result MIRA began contracting with wTe as a contractor with special capabilities. He said wTe contacted MIRA in November and alerted MIRA that they had been issued a notice of violation ("NOV") by the U.S. Environmental Protection Agency for high levels of Volatile Organic Compounds ("VOCs") being emitted from the processing equipment used to process MIRA's ferrous metal waste stream. Mr. Egan explained that in order to continue to process MIRA's ferrous metals it is likely that wTe will be required to install expensive environmental control equipment to destroy the VOC's.

Mr. Egan explained as MIRA is wTe's largest supplier of ferrous metals wTe requested a long term contract with MIRA to provide the financial assurance it needs before undertaking the costs and efforts of installing the needed technology. He said based on conversations with wTe and the emissions testing data it provided, that it is in MIRA's best interest to execute a long term contract with wTe to ensure MIRA has an outlet for its ferrous metal stream in the future. Mr. Egan said in the past revenue

from the ferrous metals has been up to \$1.8 million when metal prices were high; however they totaled around \$660,000 in FY 2016.

The motion previously made and seconded was approved unanimously by roll call. Chairman Stein, Vice-Chairman Barlow, Director Adams, Director Cruz-Aponte, Director Eno, Director Hayden, Director Painter and Director Shanley voted yes.

Directors	Aye	Nay	Abstain
Chairman Stein	X		
Vice-Chairman Barlow	X		
John Adams	X		
Marilynn Cruz-Aponte	X		
Ralph Eno	X		
Jim Hayden	X		
Bob Painter	X		
Scott Shanley	X		

DISCUSSION OF DRAFT FY 2018 CSWS OPERATING AND CAPITAL BUDGET

Mr. Kirk said at the request of the Finance Committee Mr. Daley developed several alternative scenarios with respect to the budget and tip fee for the Connecticut Solid Waste System Operating and Capital Budget. Mr. Daley said in December at the request of the Finance Committee management looked to reduce the budget for the resource recovery facility by \$1.2 million. He said a \$700,000 reduction was achieved which brought the resource recovery facility closer to the range of FY'16 operating expenses and is more reflective of the processing assumptions which management wanted to use in the CSWS budget for FY'18 and is more in the range of 650,000 tons and 350 mega-watt hours.

Mr. Daley said that step has been taken and is incorporated into the first full draft of the CSWS budget. He said management presented the full budget in detail to the Finance Committee with a particular emphasis on the processing assumptions and how it is reflective of FY'16 actuals. Mr. Daley said the Finance Committee asked for further reductions in terms of the energy production at the plant and the price for energy. He explained what comes with that is a reduction of the tonnage assumptions being processed.

Mr. Daley reviewed the budget with the Board. He said there was just under \$61 million in total operating revenue and \$56.7 million in total operating expenses with \$4.2 million in income before reserves. He said that income would be dedicated to the CSWS improvement fund which would be fully funded with a \$10 million draw from the tip fee stabilization fund and another \$1.5 million from the Property Division General Fund in order to meet the strategic plan investment. Mr. Daley said that fund would not be grown by this budget and leaves no contingency from the income from property division for FY'18. Mr. Daley said there are other resources for the tip fee stabilization fund. Mr. Daley said the tip fee which results from this is a \$4.00 increase from FY'17. Mr. Daley reviewed the three CSWS budget scenarios with the Board.

Mr. Kirk said he is comfortable with the \$70.00 tip fee in FY'18 as presented. He said the additional conservatism is welcome. He said he does not like the idea of potentially spending down

contingencies. Mr. Daley said he feels the correct choice is to even out the improvement fund requirements, and lower the production and/or price assumption over the three years. He said he has checked with MIRA's risk manager to see if this would have any impacts on insurance and was assured it would not. Mr. Kirk reiterated this. He said the BI insurer and its engineering staff do not have a problem with a potential postponement of the turbine overhaul, but the budget should reflect the overhaul and that decision on postponement of the turbine outage could be made during the budget year.

After substantial discussion the Board agreed that the production assumption of 347 thousand megawatt hours should remain, the energy price assumption should be lowered and the turbine 6 outage should not be deferred. The Board further requested that the second draft budget include a reserve analysis, listing of projects funded within the Improvement Fund and assessment of the cost to open the Ellington transfer station.

PRESIDENT'S REPORT

Mr. Kirk said during the reporting period MIRA operated without health or public safety issues. He said MIRA management and the Department of Energy and Environmental Protection are closely monitoring a flu gas issue at the MIRA plant. Mr. Kirk explained expansion and contraction of the duct work between the induced draft fan and the stack have been repaired but there are still some small seeps which leak flu gas from time to time due to temperature changes.

Mr. Kirk said MIRA has \$1.5 million in its budget in order to replace those sections. He said although MIRA is still within its permit limits (which have been confirmed by the CT DEEP) management feels it is likely that the CT DEEP is counting on MIRA to affect a full repair in the future.

Mr. Egan said MIRA has a permit which notes all emissions will be emitted at 218 feet above ground level. He said the seeps are not at 218 feet. Mr. Egan said there have been other facilities which have had this same issues and the CT DEEP has requested an enhanced inspection and repair program, which is likely to be required for MIRA. He said the repairs would require a four to six day cold iron outage which would be done during a boiler outage.

EXECUTIVE SESSION

Chairman Stein requested a motion to enter into Executive Session to discuss pending litigation. The motion was made by Director Shanley and seconded by Director Eno and was approved unanimously.

Chairman Stein asked the following people to join the Directors in the Executive Session:

Tom Kirk
Mark Daley
Peter Egan
Laurie Hunt
Dave Bodendorf
Tina Mateo

The motion previously made and seconded was approved unanimously by roll call. Chairman Stein, Vice-Chairman Barlow, Director Adams, Director Eno, Director Hayden, Director Painter and Director Shanley voted yes.

Directors	Aye	Nay	Abstain
Chairman Stein	X		
Vice-Chairman Barlow	X		
John Adams	X		
Ralph Eno	X		
Jim Hayden	X		
Bob Painter	X		
Scott Shanley	X		

The Executive Session began at 11:50 a.m. and concluded at 12:55 p.m. Chairman Stein noted that no votes were taken in Executive Session.

The meeting was reconvened at 12:55 p.m. The door was opened, and the Board Secretary and all members of the public were invited back in for the continuation of public session.

SOUTH MEADOWS MAINTENANCE AND CAPITAL SPENDING TRENDS

Ms. Raymond distributed a one page graph, attached as “Exhibit A” which detailed the South Meadows’ maintenance and capital spending trends.

ADJOURNMENT

Chairman Stein requested a motion to adjourn the meeting. The motion to adjourn was made by Director Shanley seconded by Director Eno and was approved unanimously

The motion previously made and seconded was approved unanimously by roll call. Chairman Stein, Vice-Chairman Barlow, Director Adams, Director Eno, Director Hayden, Director Painter and Director Shanley voted yes.

Directors	Aye	Nay	Abstain
Chairman Stein	X		
Vice-Chairman Barlow	X		
John Adams	X		
Ralph Eno	X		
Jim Hayden	X		
Bob Painter	X		
Scott Shanley	X		

There being no other business to discuss, the meeting adjourned at 1:15 p.m.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'Moira Kenney', with a long horizontal flourish extending to the right.

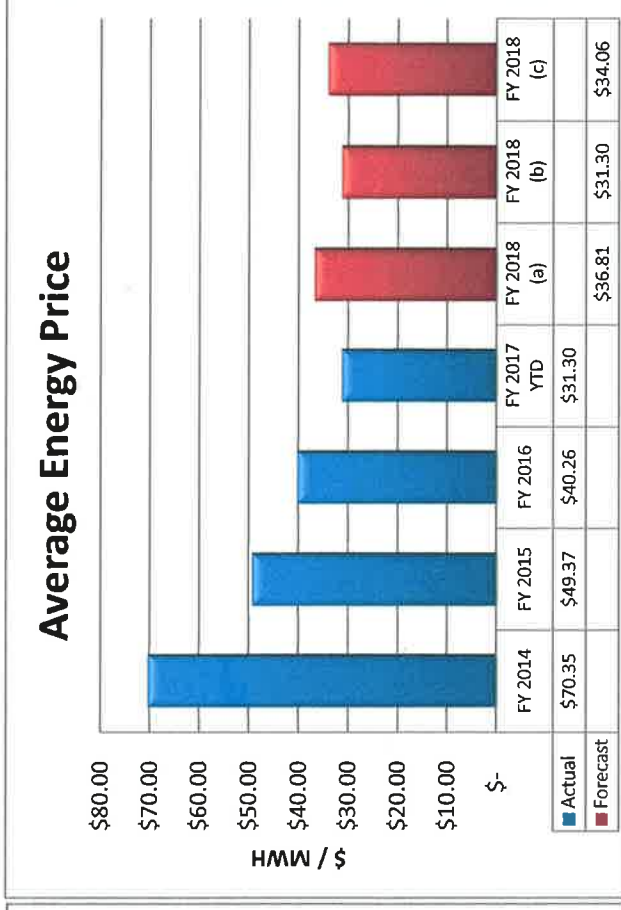
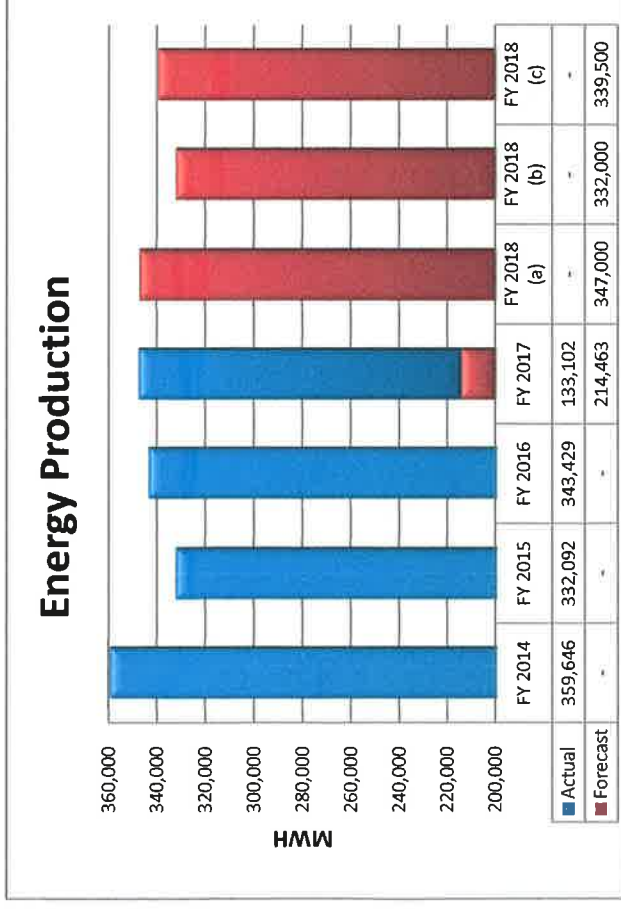
Moira Kenney

Assistant HR Manager/Board Administrator

EXHIBIT A

Materials Innovation and Recycling Authority Connecticut Solid Waste System Operating and Capital Budget Scenarios January 26, 2017 Board of Directors Meeting

Scenario	Production	Price	Total MSW Deliveries	Tip Fee	Imp. Fund	Total Subsidy	Change from Scenario A
A	347,000	\$ 36.81	650,440	\$ 70.00	\$ 15,685,667	\$ 11,525,258	\$ -
B	332,000	\$ 31.30	624,440	\$ 75.81	\$ 15,685,667	\$ 11,525,258	\$ -
B.1	332,000	\$ 31.30	624,440	\$ 70.00	\$ 15,685,667	\$ 14,653,384	\$ 3,128,126
C	339,500	\$ 34.06	638,440	\$ 72.79	\$ 15,685,667	\$ 11,525,258	\$ -
C.1	339,500	\$ 34.06	638,440	\$ 70.00	\$ 15,685,667	\$ 13,026,001	\$ 1,500,743
Delay T6					\$ 13,854,784		\$ (1,830,883)



TAB 2

RESOLUTION FOR THE MATERIALS INNOVATION AND RECYCLING AUTHORITY BOARD OF DIRECTORS

REGARDING ADOPTION OF THE FISCAL YEAR 2018

AUTHORITY BUDGET

WHEREAS: The Materials Innovation and Recycling Authority Board of Directors (the Authority) adopted a Fiscal Year 2018 Authority Budget at its November 17, 2016 meeting; and

WHEREAS: Such adopted Authority Budget remained subject to revision pending adoption of the Fiscal Year 2018 Connecticut Solid Waste System (CSWS) Operating and Capital Budgets; and

WHEREAS: Such CSWS Operating and Capital Budgets are being adopted at this February 23, 2017 Board of Directors meeting; and

WHEREAS: Since its initial adoption, the Authority Budget has been reduced and modified to reflect the calendar year 2017 renewal of the Authority's health and welfare benefit program and additional policies reviewed at the January 2017 OS&HR and Finance Committee meetings.

NOW THEREFORE, be it

RESOLVED: That the Fiscal Year 2018 Authority Budget attached hereto as Exhibit A be adopted as discussed and presented in this meeting.

	FY 2016 Actual	FY 2017 Adopted	FY 2018 Proposed	Increase or Decrease From			
				FY 2016 Actual		FY 2017 Adopted	
				\$	%	\$	%
Personnel Services							
Charged Direct to Projects	\$ 1,308,293	\$ 1,870,520	\$ 1,905,666	\$ 597,373	45.7%	\$ 35,146	1.9%
Indirect via Authority Budget	\$ 3,564,465	\$ 2,875,983	\$ 2,698,609	\$ (865,856)	-24.3%	\$ (177,374)	-6.2%
Total	\$ 4,872,758	\$ 4,746,503	\$ 4,604,276	\$ (268,482)	-5.5%	\$ (142,227)	-3.0%
Authority Budget							
Indirect Personnel Services	\$ 3,564,465	\$ 2,875,983	\$ 2,698,609	\$ (865,856)	-24.3%	\$ (177,374)	-6.2%
Non Personnel Services	\$ 874,924	\$ 1,263,123	\$ 927,747	\$ 52,823	6.0%	\$ (335,376)	-26.6%
Total	\$ 4,439,389	\$ 4,139,106	\$ 3,626,356	\$ (813,033)	-18.3%	\$ (512,750)	-12.4%
Combined Personnel and Non Personnel Services	\$ 5,747,682	\$ 6,009,626	\$ 5,532,023	\$ (215,659)	-3.8%	\$ (477,603)	-7.9%

Personnel Services

The FY 2018 total proposed Personnel Services budget of \$4,604,276 reflects a 5.5% reduction from FY 2016 actual audited Personnel Services and a 3.0% reduction from the FY 2017 adopted budget for Personnel Services. The reduction in Personnel Services from the FY 2017 budget was achieved primarily by instituting a hiring freeze (excluding scale operators) and reducing funding for personal leave payouts and such budget reflects related policies as reviewed at MIRA's OS&HR and Finance Committee meetings in January 2017.

Health and welfare benefits costs reflect actual premiums and employee cost shares resulting from the CY 2017 open enrollment and are assumed to increase 11% effective January 1, 2018. Employee contributions were fixed at present levels unless an employee's plan selection or coverage tier changed. The budget funds 50% of the maximum annual contribution to employee health savings accounts. A modest budget is provided for market progression adjustments to become effective during FY 2018. See Exhibit 1 for the breakdown of total Personnel Services and the longer term trend. The Personnel Services budget is allocated among the CSWS, Property and Landfill divisions on a direct and indirect basis. Direct allocation is used when positions are dedicated solely to a specific project / function (CSWS scale operator positions being a good example). Indirect allocations are used when positions serve all projects and divisions (finance and accounting positions being a good example).

Authority Budget

The Authority Budget comprises the indirect portion of the Personnel Services budget described (and highlighted) above and all Non Personnel Services not directly associated with a specific project or division. Non Personnel Services include such expenses as office rent, office supplies, postage and printing, customer service activities, temporary services, insurance, brokerage and consulting. The proposed Non Personnel Services budget of \$927,747 reflects a 6.0% increase from FY 2016 actual audited expenses and a 26.6% decrease from the FY 2017 budget. This is in accordance with the general targets established as part of this year's strategic plan update. The major areas of reduction from the FY 2017 budget are within the legal and contingency lines. See Exhibit 2 for the breakdown of Non Personnel Services. The total proposed Authority Budget for FY 2018 is \$3,626,356 which represents an 18.3% decrease from FY 2016 actual expenses and a 12.4% decrease from the FY 2017 budget.

FY 2018 combined personnel and non-personnel services are down 3.8% in comparison to FY 2016 actual expenses and down 7.9% in comparison to the FY 2017 budget.

See Exhibits 3 and 4 for project and division allocations.

EXHIBIT 1
MATERIALS INNOVATION AND RECYCLING AUTHORITY
FY 2018 PROPOSED
TOTAL PERSONNEL SERVICE BUDGET

Total Personnel Services	FY17 Adopted	FY18 Proposed	Difference	% Inc/Dec
Labor Related Payroll				
Regular Payroll	\$ 3,272,739	\$ 3,270,846	\$ (1,893)	-0.06%
Merit / General Pool Increases	\$ -	\$ -	\$ -	100.00%
Unassigned MPA Adjustments	\$ 50,000	\$ 30,000	\$ (20,000)	-40.00%
Overtime Payroll (Based upon prior year)	\$ 35,000	\$ 30,000	\$ (5,000)	-14.29%
1 Week PL Payout	\$ 92,306	\$ 62,901	\$ (29,405)	-31.86%
	\$ 3,450,045	\$ 3,393,747	\$ (56,298)	-1.63%
Labor Related Payroll Taxes				
Medicare Tax	\$ 47,455	\$ 46,644	\$ (811)	-1.71%
Social Security	\$ 179,363	\$ 174,479	\$ (4,884)	-2.72%
CT Unemployment Compensation	\$ 18,450	\$ 25,080	\$ 6,630	35.93%
1 Week PL Payout	\$ 245,268	\$ 249,466	\$ 4,198	1.71%
	\$ 3,695,313	\$ 3,643,213	\$ (52,100)	-1.41%
Subtotal Labor Costs	\$ 3,695,313	\$ 3,643,213	\$ (52,100)	-1.41%
Employee Benefits				
HSA Contribution	\$ 48,850	\$ 43,975	\$ (4,875)	-9.98%
Medical & Dental*	\$ 616,510	\$ 500,369	\$ (116,141)	-18.84%
Life and Disability*	\$ 42,724	\$ 52,496	\$ 9,772	22.87%
Vision*	\$ 8,824	\$ 9,996	\$ 1,172	13.28%
Medical Opt-out	\$ 20,190	\$ 20,761	\$ 571	2.83%
Total Health Benefits Costs	\$ 737,098	\$ 627,596	\$ (109,502)	-14.86%
Employee Medical & Dental Contributions*	\$ (83,107)	\$ (52,779)	\$ 30,329	-36.49%
Net Health Benefits Costs	\$ 653,991	\$ 574,817	\$ (79,173)	-12.11%
401-K Contribution (Regular Salary)	\$ 327,274	\$ 321,684	\$ (5,590)	-1.71%
401-K Contribution (1 Week PL Payout)	\$ -	\$ 6,186	\$ 6,186	100.00%
Subtotal Employee Benefits Costs	\$ 981,265	\$ 902,687	\$ (78,577)	-8.01%
Wellness				
	\$ 25,425	\$ 13,875	\$ (11,550)	-45.43%
Other Benefit-Related Costs				
Other Benefits	\$ -	\$ 7,000	\$ 7,000	100.00%
401(k) Consultant	\$ 12,000	\$ 12,000	\$ -	0.00%
Benefits Administration/Brokerage	\$ 32,500	\$ 25,500	\$ (7,000)	-21.54%
Subtotal Other Benefit-Related Costs	\$ 44,500	\$ 44,500	\$ -	0.00%
TOTAL PERSONNEL SERVICES	\$ 4,746,503	\$ 4,604,276	\$ (142,227)	-3.00%

* FY 2018 health and welfare premiums assumed to increase 22% from CY 2016. Employee contribution held constant.

HISTORICAL COMPARISON - BUDGET VERSUS ACTUAL

Fiscal Year	Adopted	Budget Inc/Dec	Actual Amount	Difference Amount
FY11	\$ 6,653,010		\$ 5,902,315	\$ (750,695)
FY12	\$ 6,448,392	-3.08%	\$ 5,861,802	\$ (586,590)
FY13	\$ 6,709,074	4.04%	\$ 5,804,429	\$ (904,645)
FY14	\$ 5,906,786	-11.96%	\$ 5,502,509	\$ (404,277)
FY15	\$ 5,592,010	-5.33%	\$ 5,041,372	\$ (550,638)
FY16	\$ 5,243,847	-6.23%	\$ 4,872,758	\$ (371,089)
Total	\$ 36,553,119		\$ 32,985,185	\$ (3,567,934)

MIRA FY13 - FY17 Personnel Services Expenses

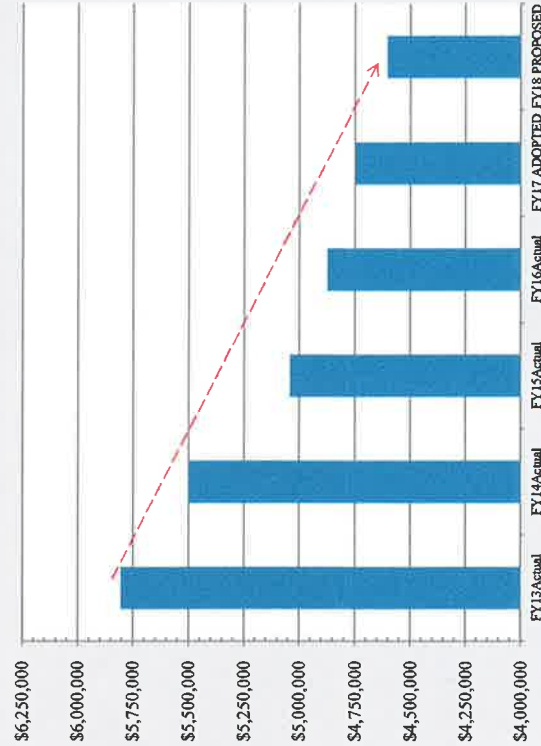


EXHIBIT 2
MATERIALS INNOVATION AND RECYCLING AUTHORITY
FY 2018 PROPOSED
TOTAL NON PERSONNEL SERVICES BUDGET

Description	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18	Increase or Decrease From			
				FY 2016 Actual		FY 2017 Adopted	
				\$	%	\$	%
Postage and Delivery Fees	\$ 6,945	\$ 15,410	\$ 10,700	\$ 3,755	54%	\$ (4,710)	-31%
Telecommunications	\$ 55,991	\$ 68,200	\$ 55,500	\$ (491)	-1%	\$ (12,700)	-19%
Copier	\$ 4,873	\$ 10,000	\$ 6,000	\$ 1,127	23%	\$ (4,000)	-40%
Printing Services	\$ 4,121	\$ 5,800	\$ 4,500	\$ 379	9%	\$ (1,300)	-22%
Advertising - Legal Notices/Recruitment	\$ 2,657	\$ 11,000	\$ 10,100	\$ 7,443	280%	\$ (900)	-8%
Customer Service	\$ 5,346	\$ 45,000	\$ 6,000	\$ 654	12%	\$ (39,000)	-87%
Office Supplies	\$ 9,575	\$ 16,000	\$ 12,000	\$ 2,425	25%	\$ (4,000)	-25%
Protect Clothing/Safety Equipment		\$ -	\$ -	\$ -	100%	\$ -	100%
Miscellaneous Services	\$ 4,235	\$ 7,500	\$ 6,000	\$ 1,765	42%	\$ (1,500)	-20%
Subscript/Publ/Ref. Material	\$ 6,058	\$ 17,400	\$ 13,250	\$ 7,192	119%	\$ (4,150)	-24%
Dues-Professional Organizations	\$ 5,499	\$ 7,100	\$ 6,030	\$ 531	10%	\$ (1,070)	-15%
Business Meetings and Travel	\$ 3,169	\$ 6,050	\$ 5,925	\$ 2,756	87%	\$ (125)	-2%
Training	\$ 1,182	\$ 7,400	\$ 7,700	\$ 6,518	551%	\$ 300	4%
Payroll Software Services	\$ 12,144	\$ 13,000	\$ 13,000	\$ 856	7%	\$ -	0%
Record Retention Services	\$ 10,679	\$ 11,500	\$ 11,500	\$ 821	8%	\$ -	0%
Mileage Reimbursement	\$ 1,533	\$ 5,700	\$ 2,100	\$ 567	37%	\$ (3,600)	-63%
Vehicle Repair/Maintenance	\$ 3,403	\$ 5,000	\$ 3,000	\$ (403)	-12%	\$ (2,000)	-40%
Office Equipment Service		\$ 3,000	\$ -	\$ -	100%	\$ (3,000)	-100%
Building Operations	\$ 130,945	\$ 7,000	\$ 2,000	\$ (128,945)	-98%	\$ (5,000)	-71%
Insurance Claims/Losses		\$ -		\$ -	100%	\$ -	100%
Bad Debt Expense		\$ -		\$ -	100%	\$ -	100%
Rent	\$ 179,937	\$ 174,063	\$ 177,377	\$ (2,560)	-1%	\$ 3,314	2%
Fuel for Vehicles	\$ 3,676	\$ 10,000	\$ 5,000	\$ 1,324	36%	\$ (5,000)	-50%
Temporary Agency Services	\$ 10,678	\$ 1,000	\$ 1,000	\$ (9,678)	-91%	\$ -	0%
Insurance Premiums	\$ 153,767	\$ 152,100	\$ 159,176	\$ 5,409	4%	\$ 7,076	5%
Information Technology Consultant	\$ 44,556	\$ 60,000	\$ 30,250	\$ (14,306)	-32%	\$ (29,750)	-50%
Information Technology Maintenance	\$ 65,042	\$ 74,200	\$ 70,500	\$ 5,458	8%	\$ (3,700)	-5%
Legal Fees	\$ 28,618	\$ 200,000	\$ 100,000	\$ 71,382	249%	\$ (100,000)	-50%
Auditor	\$ 46,000	\$ 52,000	\$ 47,000	\$ 1,000	2%	\$ (5,000)	-10%
Insurance Consulting/Brokerage	\$ 8,104	\$ 8,700	\$ 9,639	\$ 1,535	19%	\$ 939	11%
Engineering, Technology & Consulting	\$ 22,798	\$ 110,000	\$ 95,000	\$ 72,202	317%	\$ (15,000)	-14%
Vehicles		\$ -		\$ -	100%	\$ -	100%
Office Furniture		\$ -		\$ -	100%	\$ -	100%
Computer Hardware	\$ 3,722	\$ 16,000	\$ 26,000	\$ 22,278	599%	\$ 10,000	63%
Computer Software	\$ 20,168	\$ 14,000	\$ 14,000	\$ (6,168)	-31%	\$ -	0%
Debt Service - Principal		\$ -		\$ -	100%	\$ -	100%
Other Equipment	\$ 11,995	\$ 14,000	\$ 10,000	\$ (1,995)	-17%	\$ (4,000)	-29%
Trustee / Bank Fees	\$ 7,508	\$ 15,000	\$ 7,500	\$ (8)	0%	\$ (7,500)	-50%
Debt Service - Interest		\$ -		\$ -	100%	\$ -	100%
Operational Contingency	\$ -	\$ 100,000	\$ -	\$ -	100%	\$ (100,000)	-100%
Subtotal Non-Personnel Services	\$ 874,924	\$ 1,263,123	\$ 927,747	\$ 52,823	6%	\$ (335,376)	-27%

EXHIBIT 3

MATERIALS INNOVATION AND RECYCLING AUTHORITY
MIRA PRIMARY INDIRECT EXPENSE ALLOCATION METHODOLOGY BY PROJECT / DIVISION

FY2018 BUDGET
(000 omitted on \$ Amounts)

	CSWS	Property Division	Landfill Division	Southeast	Mid-Con Project	Total
MSW Tons FY16 Actual	638,856	-	-			638,856
Percentage	100.0%	0.0%	0.0%	0.0%	0.0%	100%
Weighting	10.0%	10.0%	10.0%	10.0%	10.0%	
Adjusted Weighting	10.0%	0.0%	0.0%	0.0%	0.0%	10%
Recycling Tons FY16 Actual	71,718	-	-			71,718
Percentage	100.0%	0.0%	0.0%	0.0%	0.0%	100%
Weighting	10.0%	10.0%	10.0%	10.0%	10.0%	
Adjusted Weighting	10.0%	0.0%	0.0%	0.0%	0.0%	10%
Total Operating Revenues FY16	\$ 56,871	\$ 8,394	\$ 273			65,538
Percentage	86.8%	12.8%	0.4%	0.0%	0.0%	100%
Weighting	15.0%	15.0%	15.0%	15.0%	15.0%	
Adjusted Weighting	13.0%	1.9%	0.1%	0.0%	0.0%	15%
Total Current Assets FY16	\$ 25,048	\$ 15,753	\$ 3,573			44,374
Percentage	56.4%	35.5%	8.1%	0.0%	0.0%	100%
Weighting	15.0%	15.0%	15.0%	15.0%	15.0%	
Adjusted Weighting	8.5%	5.3%	1.2%	0.0%	0.0%	15%
Transactions	1,580	1,301	311			3,192
Percentage	49.5%	40.8%	9.7%	0.0%	0.0%	100%
Weighting	25.0%	25.0%	25.0%	25.0%	25.0%	
Adjusted Weighting	12.4%	10.2%	2.4%	0.0%	0.0%	25%
Full Time Equivalents	18	1	-			19
Percentage	94.7%	5.3%	0.0%	0.0%	0.0%	100%
Weighting	25.0%	25.0%	25.0%	25.0%	25.0%	
Adjusted Weighting	23.7%	1.3%	0.0%	0.0%	0.0%	25%
Cumulative Weighting	100.00%	100.00%	100.00%	100.00%	100.00%	
Total Adjusted Weighting	77.54%	18.75%	3.71%	0.00%	0.00%	100.00%

EXHIBIT 4
MATERIALS INNOVATION AND RECYCLING AUTHORITY
FY 2018 PROPOSED
ALLOCATION OF AUTHORITY BUDGET & DIRECT PERSONNEL SERVICES

Total Authority Budget \$ 3,626,356

Project / Division	Indirect Allocation Benchmarked Percent	Authority Budget Allocation
Mid-Connecticut	0.00%	\$ -
Southeast Project	0.00%	\$ -
Landfill Division	3.71%	\$ 134,538
Property Division	18.76%	\$ 680,304
CSWS	77.54%	\$ 2,811,877
Total Authority Budget	100.01%	\$ 3,626,719

Total Direct Personnel Services \$ 1,905,666

Project / Division	Direct Personnel Service Allocation	
	Function	FY 2016 Budget
Mid-Connecticut		\$ -
Southeast Project		\$ -
Landfill Division		\$ -
Property Division	Operations Staff - Jets	\$ 129,333
CSWS	Operations Staff - CSWS	\$ 1,776,334
Total Direct Personnel Services		\$ 1,905,666

Combined Authority Budget and Direct Personnel Services \$ 5,532,023

Project / Division	Overall Allocation Percent	Total Allocated Cost
Mid-Connecticut	0.00%	\$ -
Southeast Project	0.00%	\$ -
Landfill Division	2.43%	\$ 134,538
Property Division	14.63%	\$ 809,637
CSWS	82.93%	\$ 4,588,210
Total Direct Personnel Services	100.00%	\$ 5,532,385

TAB 3

RESOLUTION FOR THE MATERIALS INNOVATION AND RECYCLING AUTHORITY BOARD OF DIRECTORS

REGARDING ADOPTION OF THE FISCAL YEAR 2018

CSWS DIVISION OPERATING AND CAPITAL BUDGETS

RESOLVED: That the Fiscal Year 2018 Materials Innovation and Recycling Authority Operating and Capital Budget attached hereto as Exhibit A (presentation form) and Exhibit B (budget line items) is hereby adopted as presented and discussed at this meeting; and

FURTHER RESOLVED: That the Board of Directors hereby authorizes the transfer of a maximum of one million, eight hundred and eighty six thousand, five hundred and sixty four dollars (\$1,886,564) from the Property Division General Fund to the CSWS Tip Fee Stabilization Fund for the period July 1, 2017 through June 30, 2018. A portion of such maximum funds shall be drawn monthly, as part of the Authority's monthly flow of funds distribution, as necessary to supplement funds available within the CSWS Tip Fee Stabilization Fund for use in fully funding the FY 2018 CSWS Cost of Operation; and

FURTHER RESOLVED: That the Board of Directors hereby approves and establishes the following tip fees for FY 2018:

- Uniform Base Disposal Fee - for contracts substantially similar to Tier 1 Short Term Municipal Service Agreements and Waste Hauler Agreements expiring June 30, 2017 - \$70.00 per ton;
- Tier 1 Long term - \$68.00 per ton;
- Tier 2 - for contracts substantially similar to Tier 2 Municipal Service Agreements expiring June 30, 2017 - \$72.00 per ton;
- Tier 3 - \$68.00 per ton;
- Tier 4 - \$71.00 per ton;
- Recycling Deliveries – for the delivery of single stream recyclables by Non Participating municipalities to a transfer station - \$16.00 per ton.

MATERIALS INNOVATION AND RECYCLING AUTHORITY



EXHIBIT A

CSWS DIVISION
FY 2018 RECOMMENDED OPERATING AND CAPITAL BUDGET

FEBRUARY 23, 2017
MIRA BOARD OF DIRECTORS

Summary Modifications to 1st Draft Budget

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- **Energy Sales:**
 - Average energy price reduced from \$.03681 / kwh to \$.03400 / kwh (7.6%).
 - Energy sales revenue reduced by \$975,070.
 - Energy production unchanged at 347 million kwh.
- **Other Recovered Products:**
 - Increased \$40,847 (2.5%).
 - Incorporates \$16 tip fee for recyclables delivered to transfer station by non-participating towns.
 - Recycled commodity price and residue assumptions updated.
- **Spot Waste Revenue:**
 - Increased \$74,400 through increased deliveries.
 - Accommodates reduction in deliveries from recycling residue.
- **Total Operating Expenses:**
 - Reduced by \$129,192.
- **Improvement Fund Contribution:**
 - Reduced by \$400,000.
 - Includes Turbine 6 overhaul occurring in FY 2018.
- **Deficit Funding from Property Division General Fund:**
 - Increased from \$1,555,933 to \$1,886,564 (\$330,631).
- **Maintains \$70.00 Uniform Base Disposal Fee**
- **Opening of Ellington Transfer Station Separately Assessed**

Reserve Fund Review

3

Division / Account	Balance 1/31/2017*	Note
Authority Budget		
General Fund Checking Account	\$ 1,134,412	Reflects unencumbered value. Cash value is \$3,239,357.51.
Severance Fund	\$ 732,824	Pending distribution is \$12,554.
Sub-total	\$ 1,867,237	
Property Division		
Clearing Account	\$ 1,000	
Operating Fund	\$ 1,781,434	
General Fund	\$ 1,632,322	Pending receipt for Stratford sale is +/- \$4.75 million. Pending receipt for advanced Jets funding is \$422,000. Pending use of reserve for FY 2018 CSWS Tip Fee Stabilization is \$1,886,564.
PD Improvement Fund	\$ 457,097	
CSWS Improvement Fund	\$ 1,021,486	
CSWS Tip Fee Stabilization	\$ 7,708,917	Primarily consists of pre-paid tip fees. Average monthly draw for FY 2017 is \$1,033,125. Pending receipt (transfer) of FY 2018 Property Division income is \$9,969,265. Pending distribution for FY 2018 CSWS Tip Fee Stabilization is \$9,969,265.
Sub-total	\$ 12,602,255	
CSWS		
Clearing Account	\$ 40,000	
Operating Fund	\$ 8,394,786	
Debt Service Fund	\$ 3,875	No pending receipts / distributions other than interest.
General Fund	\$ 1,042	No pending receipts / distributions other than interest.
CSWS Risk Fund	\$ 444,090	No pending receipts / distributions other than interest.
CSWS Legal Fund	\$ 604,283	No pending receipts / distributions other than interest.
Sub-total	\$ 9,488,076	
Landfill Operating Account	\$ 3,351,779	FY 2018 use of reserve is \$159,835 Completion / repair of solar project is \$230,748 before reimbursements
Total	\$ 27,309,347	Excludes Mid Conn and Southeast project funds held pending closeout activity.

* After flow of funds executed.

Summary Proposed Budget

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- Total Operating Revenues - \$60.0 Million
- Total Operating Expenses - \$56.6 Million
- Operating Income Before Reserve Contributions - \$ 3.4 Million
- Proposed Reserve Contributions
 - CSWS General Fund: \$0.0 Million
 - CSWS Improvement Fund - \$15.3 Million
 - CSWS Risk Fund - \$ 0
 - CSWS Legal Fund - \$ 0
 - MIRA Severance Fund - \$ 0
 - CSWS Tip Fee Stabilization Fund - \$ (10.0 Million)
 - CSWS General Fund Retained - \$ 0
 - Property Division General Fund \$ (1.9 Million)
- \$4.00 Per Ton Increase From FY 2017 Tip Fee
- Will Exceed Opt Out Tip Fee Provisions of MSAs

Participating Town Disposal Fees

5

• Cost of Operation -	
○ Operating Expense Budget - \$56,570,186 (\$1,745,203 3.0% Reduction)	
○ Reserve Contributions - \$15,285,667 (\$4,694,962, 48.1% Increase)	
○ Net Increase - \$3,219,759 / 4.7%	\$71,855,853
• Non Disposal Fee Revenue -	
○ \$4,526,209, 11.6% Decrease	
○ Includes \$35,340 Member Service Fees (Tier 2 @ \$2.00 & Tier 4 @ \$1.00 / Ton)	\$34,376,664
• Net Cost of Operation -	
○ \$7,745,968 / 26.0% Increase from FY 2017	\$37,479,189
• Add: Cost of Service Discounts -	
○ Tier 1 Long – 204,600 Tons @ \$2.00 / Ton; and	
○ Tier 3 – 3,720 Tons @ \$2.00 / Ton	\$ 416,640
• Deduct: Deficit Funding -	
○ Tip Fee Stabilization of \$9,969,265	
○ Property Division General Fund of \$1,886,564	\$ (11,855,829)
• Note: Equivalent Subsidy of Uniform Base Disposal Fee -	\$ (31.87 / ton)

MIRA “shall set the Base Disposal Fee such that the product of the Base Disposal Fee and the Aggregate Tons, shall produce funds estimated as sufficient to pay the estimated Net Cost of Operation”

Participating Town Disposal Fees

6

- **Total Rate Base -**
 - Net Cost of Operation + Cost of Service Discounts - Deficit Funding

\$26,040,000
- **Aggregate Tons -**
 - Service Discounted (Tier 1 Long & Tier 3) - 208,320
 - Gate Rate (Equivalent Tier 1 Short) - 141,360
 - \$2 Service Fee (Tier 2) - 13,020
 - \$1 Service Fee (Tier 4) - 9,300
 - Total - 372,000

372,000
- **Uniform Base Disposal Fee -**

\$70.00 / Ton

Contract	FY 2018 Proposed Disposal Fee	FY 2018 Base Opt Out	FY 2018 Total Opt Out (With Additional Opt Out Costs)
Tier 1 Long	\$68.00	\$62.80	\$65.15
Tier 1 Short	\$70.00	n/a	n/a
Tier 2	\$72.00	n/a	n/a
Tier 3	\$68.00	n/a	n/a
Tier 4	\$71.00	n/a	n/a

- **Total Member Disposal Fees -**

\$25,623,360
 \$1,055,360 / 4.3%
 Increase from FY 2017

Operating Expense Budget

7

• Transfer Stations -

○ Ellington -	\$ 14,300
○ Essex -	\$ 565,100
○ Torrington -	\$ 548,350
○ Watertown -	\$ 565,350
○ Total -	<u>\$1,693,100</u>

\$ 1,693,100

0.8% Decrease from FY 2017

• Waste Transportation -

○ MSW From Essex -	\$ 768,082
○ MSW From Torrington -	\$ 551,520
○ MSW From Watertown -	\$ 1,399,560
○ MSW From RRDD#1 -	\$ 18,418
○ MSW From Ellington -	\$ 42,000
○ Solid Waste Bypass -	\$ 25,520
○ Ash Disposal -	\$ 10,286,352
○ Non-Processible -	\$ 15,870
○ Total -	<u>\$ 13,107,322</u>

\$13,107,322

3.4% Decrease from FY 2017

• Trash to Energy Facility -

○ Waste Processing -	\$11,037,801 (\$181,370 / 1.6% Reduction)
○ Power Block -	\$20,408,814 (\$653,711 / 3.1% Reduction)
○ Facility Contractor -	<u>\$ 1,241,029 (\$8,029 / 0.7% Increase)</u>
○ Total -	<u>\$32,687,644 (827,052 / 2.5% Reduction)</u>

\$32,687,644

2.5% Decrease from FY 2017

Operating Expense Budget

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● Recycling Facility -

○ Transport From Essex -	\$ 170,150
○ Transport From Torrington -	\$ 180,225
○ Transport From Watertown -	\$ 118,125
○ Direct O&M Expenses -	\$ 188,250
○ Recycling Rebate -	\$ <u>0</u>
○ Total	\$ 656,750

\$656,750

11.0% Increase from FY 2017

● Indirect Expense-

○ Authority Budget Allocation-	\$2,811,877
○ MIRA Direct Personnel-	\$1,804,003
○ MIRA Direct Non Personnel -	\$1,198,016
○ Assessment, Fees and Taxes -	\$2,611,474
○ Murphy Road Ops Center -	\$ <u>0</u>
○ Total	\$8,425,370

\$8,425,370

5.7% Reduction from FY 2017

● Total Operating Expense Budget -

\$56,570,186

Improvement Fund Budget

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- Improvement Fund contributions reduced by \$400,000.
- Reflects \$510,000 reduction to original project requests:

WPF / Conveyors	\$ 40,000
PBF / Boiler 13 Grate	\$ 100,000
Auxiliary Systems / Traveling Screen	\$ 50,000
Turbine 6 Overhaul	\$ 200,000
Ash System / Flash Conveyors	\$ 70,000
PBF Roof Repairs	\$ 50,000
Total Project Reductions	\$ 510,000
- All funding is dedicated to the Resource Recovery Facility.
- No funding requested for projects at transfer stations or Recycling Facility.

Updated Budget Proposal Reflecting Project Reductions		
Waste Processing Facility		FY 2018 Funding
Trommels		\$ 100,000
Conveyors		\$ 560,000
MSW/RDF Floor Repairs		\$ 340,000
Building Repairs		\$ 55,000
Roof Repairs		\$ 120,000
Loaders		\$ 860,000
Other Rolling Stock		\$ 60,000
Site Repairs		\$ 50,000
Sub-Total Waste Processing Center		\$ 2,145,000
Power Block Facility		FY 2018 Funding
Boiler 11		\$ 2,398,000
Boiler 12		\$ 2,470,000
Boiler 13		\$ 1,126,000
Turbine 6		\$ 2,801,667
Baghouse		\$ 700,000
Auxiliary Systems		\$ 1,045,000
Building Repairs		\$ 260,000
Roof Repairs		\$ 150,000
Site Repairs		\$ 50,000
Switch Yard/Switchgear		\$ 75,000
Stack/Common Duct		\$ 1,535,000
Ash System/Load Out		\$ 530,000
Sub-Total Power Block Facility		\$ 13,140,667
Total CSWS Improvement Fund Contribution		\$ 15,285,667

Recommended Reserve Contributions

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• Operating Income Before Reserve Contributions -	\$ 3,429,838
• CSWS General Fund Retained:	\$ 0
<ul style="list-style-type: none"> CSWS Improvement Fund - Represents Strategic Plan Update required funding reduced for Unit 11 air heaters undertaken in FY 2016. 	\$15,285,667
<ul style="list-style-type: none"> CSWS Risk Fund - There is presently in excess of \$443,000 in this fund . Based on review with the Risk manager, this is viewed as sufficient in comparison to the deductibles of all insurance policies other than business interruption. No contributions to this fund are recommended for FY 2018. 	\$ 0
<ul style="list-style-type: none"> CSWS Legal Fund - There is presently in excess of \$603,000 in this fund . This is viewed as sufficient in comparison to prior actual CSWS legal expenses No contributions to this fund are recommended for FY 2018. 	\$ 0
<ul style="list-style-type: none"> MIRA Severance Fund - There is presently in excess of \$732,000 in this fund This is viewed as sufficient in comparison to total FY 2018 Personnel Services. No contributions to this fund are recommended for FY 2018. 	\$ 0
<ul style="list-style-type: none"> CSWS Tip Fee Stabilization Fund - Draw expected based on draft budget parameters. Consistent with Strategic Plan Update projection. 	\$ (9,969,265)
<ul style="list-style-type: none"> Property Division General Fund Transfer - There is presently in excess of \$1.6 million in this fund. \$0.4 million is due to this fund from FY 2018 Property Division budget. Consistent with Strategic Plan Update projection. 	\$ (1,886,564)

Non Disposal Fee Revenue

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○ Energy Sales -			\$16,266,353	\$2,690,047 / 14.2% Decrease
x Capacity Payments & RECs -	\$ 4,468,353			
x Real Time Market -	\$11,798,000			
x Contract Sales -	\$ 0			
x Total -	\$16,266,353			
○ Other Recovered Products -			\$1,712,248	\$687,580 / 28.7% Decrease
x Inbound CSWS Base @ \$8.50 / Ton -	\$ 441,090			
x Inbound FCR Base @ \$7.50 / Ton -	\$ 75,000			
x Non-participating Town Tip Fees -	\$ 64,800			
x Revenue Share (Container Sales) -	\$ 45,899			
x Revenue Share (Paper Sales) -	\$ 234,069			
x FCR Residue Disposal / Other -	\$ 168,640			
x Recycling Sub-total	\$1,029,498			
x Municipal Bulky & Mattresses -	\$ 109,000			
x Metal Sales -	\$ 573,750			
x Total Other Recovered Products-	\$1,712,248			
○ Non Participating Town Waste -			\$16,319,400	\$1,147,000 / 6.6% Decrease
x Hauler Contracts-	\$11,620,000			
x Other Contracts -	\$ 4,018,000			
x Spot Waste -	\$ 681,400			
x Total -	\$16,319,400			
○ Other (Interest / Service Fees)			\$ 78,663	\$1,582 / 2.0% Decrease
○ Total Non Disposal Fee Revenue -			\$34,376,664	

Waste to Energy Key Drivers

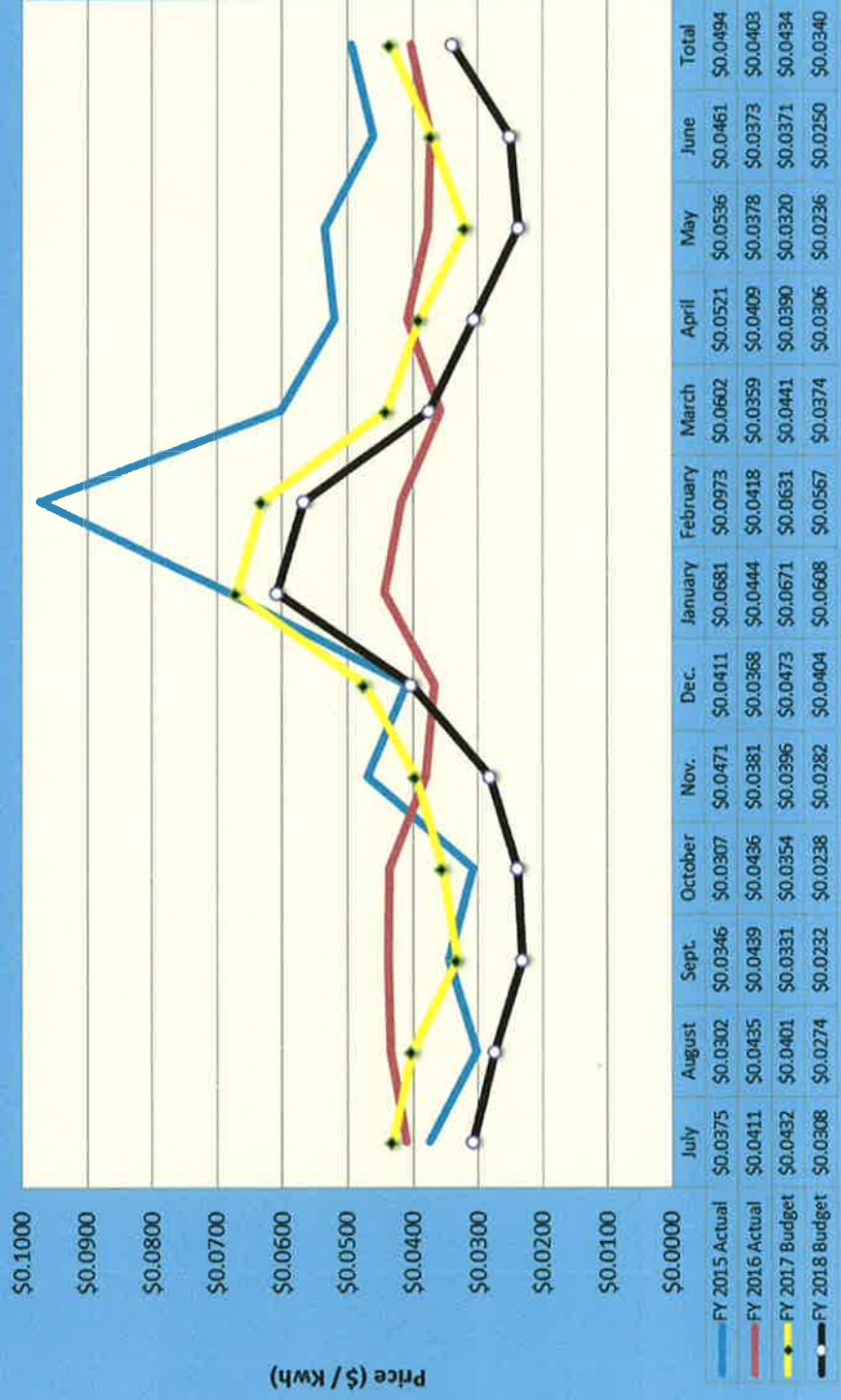
12

<ul style="list-style-type: none"> • Total MSW Deliveries - <ul style="list-style-type: none"> ○ "Aggregate Tons" - 372,000 (6,500 ton / 1.7% Reduction) ○ Hauler Contract - 166,000 (23,200 ton / 16.3% Increase) ○ Other Contract - 82,000 (13,000 ton / 13.7% Reduction) ○ Spot - 29,440 (69,260 ton / 70.2% Reduction) ○ Municipal Bulky - 1,000 (2,000 ton / 66.7% Reduction) ○ Total - 650,440 (67,560 ton / 9.4% Reduction) 	650,440
<ul style="list-style-type: none"> • Total MSW to RDF Production Rate - 	98.4%
<ul style="list-style-type: none"> • Total RDF - 	640,000
<ul style="list-style-type: none"> • RDF to KWH Production Rate - 	542.2 kwh / ton
<ul style="list-style-type: none"> • Energy Production - <ul style="list-style-type: none"> ○ 38 million Kwh (9.9%) Reduction ○ Boiler availability reduced from 86% to 80.25% 	347,000,000 kwh
<ul style="list-style-type: none"> • Contract / Non Contract Energy Price - <ul style="list-style-type: none"> ○ Reduced 15.3% from FY 2017 Rate of \$,04344 / Kwh 	\$ 0340 / kwh
<ul style="list-style-type: none"> • RDF to Ash Production Rate - <ul style="list-style-type: none"> ○ Increased from 25.1% in FY 2017 	26.35%
<ul style="list-style-type: none"> • Ash to Disposal - <ul style="list-style-type: none"> ○ Reduced by 9,371 tons (5.3%) 	168,629 tons
<ul style="list-style-type: none"> • Ash Disposal Cost Per Ton - <ul style="list-style-type: none"> ○ Increased by \$2.71 per ton from FY 2017 rate of \$58.29 	\$61.00

Waste to Energy Key Drivers

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Energy Pricing FY 2015 to FY 2018 (\$ / Kwh)



Other Recovered Products Key Drivers

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Recycling Facility Deliveries	Tons	Rate	Revenue
CSWS Commercial	107	\$ 0	\$ 0
CSWS Residential	51,893	\$8.50	\$441,090
FCR Commercial	0	\$ 0	\$ 0
FCR Residential	10,000	\$7.50	\$ 75,000
Non-participating Town Tip Fees	4,050	\$16.00	\$ 64,800
Total	62,000	\$8.32	\$580,890
Recycling Facility Exports	Tons	Rate	Revenue
CSWS Containers	14,823.0	\$ 3.00	\$ 44,469
CSWS Paper (ONP)	23,039.9	\$ 3.00	\$ 69,120
CSWS Paper (OCC)	9,359.5	\$16.00	\$149,753
CSWS Commercial	107.0	\$50.00	\$ 5,350
FCR Containers	2,858.0	\$ 0.50	\$ 1,429
FCR Paper (ONP)	4,439.0	\$ 1.00	\$ 4,439
FCR Paper (OCC)	1,802.7	\$ 3.00	\$ 5,408
FCR Paid Residue	2,480.0	\$68.00	\$168,640
FCR Unpaid Residue	3,100	\$ 0	\$ 0
Total	62,009	\$ 7.23	\$448,608

Other Recovered Products Key Drivers

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Other	Quantity	Rate	Revenue
Municipal Bulky Waste	1,000 tons	\$85.00	\$85,000
Mattresses	800 units	\$30.00 each	\$24,000
Total			\$109,000

Metal Sales	Tons	Rate	Revenue
Ferrous Metals	19,500	\$ 27.00	\$526,500
Scrap and Maintenance Metals	350	\$135.00	\$ 47,250
Total Metal Sales	19,850	\$ 28.90	\$573,750

Ellington Transfer Station Alternate

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Assumptions

- An additional Tier 1 Long Term municipality is signed and brings 25,000 tons of MSW through the Ellington transfer station.
- Deliveries of ICW are reduced by 25,000 tons to accommodate this additional waste.
- The Town of Ellington begins delivering its 4,200 tons of MSW through the transfer station rather than direct to Hartford.
- The Town of Ellington begins delivering its 1,000 tons of hauler-billed MSW through the transfer station rather than direct to Hartford.
- Ellington receives a host benefit of \$0.58 per ton on the total of 30,200 tons.
- Ellington no longer receives a \$10 rebate on its 4,200 tons of MSW.

Budget Changes

(Not Included in Current Proposal)

Revenue:	
Additional Service Fees (Net)	\$ 475,000
Operating Expenses:	
Direct Salary and Related	\$ (74,200)
Host Benefit	\$ (17,516)
Waste Transportation (Net)	\$ (247,920)
Ellington O&M (MIRA)	\$ (28,700)
Ellington Contract Operation	\$ (363,200)
Total	\$ (731,536)
Net Operating Loss	\$ (256,536)
Improvement Fund Contribution (Scale)	\$ (100,000)
FY 2018 Additional Total Cost	\$ (356,536)

FY 2018 Budget Neutral Point:

- An additional 32,952 Short Term tons @ \$70 / ton for total new deliveries of 57,952 tons; or
- An additional 40,424 Long Term Tons @ \$68 / ton for total new deliveries of 65,424 tons; and
- Note that amortizing the Improvement Fund contribution over 10 years reduces the additional tons required by 8,318 (short term) or 10,204 (long term) tons.

MATERIALS INNOVATION AND RECYCLING AUTHORITY

**FISCAL YEAR 2018
CONNECTICUT SOLID WASTE SYSTEM DIVISION
RECOMMENDED OPERATING & CAPITAL BUDGETS**

February 23, 2017

MIRA - CONNECTICUT SOLID WASTE SYSTEM (CSWS)

ASSUMPTIONS

DETAILS		ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
<u>POWER</u>	kwh/ton of RDF Produced	544	543	542
	Total kwh Sold	343,428,940	385,000,000	347,000,000
	Non-Contract rate	\$ 0.0273	\$ 0.0434	\$ 0.0340
	Contract Rate	\$ 0.0535	\$ -	\$ -
	Capacity Payment	\$ 1,721,749	\$ 1,857,000	\$ 4,208,103
	Renewable Energy Credits (REC) II	\$ 310,203	\$ 375,000	\$ 260,250
<u>DELIVERIES</u>				
MSW	Participating Towns	371,638	378,500	372,000
	Hauler Contract	166,091	142,800	166,000
	Other Contract	85,546	95,000	82,000
	Municipal Bulky Waste	1,299	3,000	1,000
Other (Spot)	Spot - MSW	15,581	83,000	13,360
	Ferrous Residue (Inbound)	10,489	10,000	10,500
	Recycling Residue (Inbound)	6,258	5,700	5,580
	Total Tons Delivered	656,902	718,000	650,440
		-		
Mattresses/Box Spring	Mattress/Box Spring (number of unit)	502	1,000	800
<u>FACILITY OPERATIONS</u>				
Tons Processed	Total MSW Processed	651,454	717,000	650,000
	RDF Consumed	631,451	709,000	640,000
Residue Rates	Ash Rate (Per Ton of RDF)	26.76%	25.11%	26.35%
	Ash Rate (Per Ton of MSW Processed)	25.94%	24.83%	25.94%
	Process Residue Rate (Per Ton of MSW)	0.00%	0.00%	0.00%
	Ferrous Metals Rate (Outbound) (Per Ton of MSW)	3.06%	3.00%	3.00%
	Ferrous Residue Rate (Inbound) (Per Ton of MSW)	1.61%	2.00%	1.61%
	Non-processible Waste - Out-of-State	0.20%	0.11%	0.15%
Other	Ferrous Residue Revenue (ave per ton price)	\$ 25.72	\$ 50.00	\$ 27.00
	Ferrous Metals including post combustion (Outbound)	19,948	22,000	19,500
	Scrap Metal/Maintenance Metal Revenue (ave price per ton)	\$ 129.20	\$ 100.00	\$ 135.00
	Scrap Metal/Maintenance Metal Revenue (Outbound)	735	350	350
<u>MUNICIPAL PAYMENTS</u>				
Fees	Essex TS Host Benefit (per ton)	\$ 0.570	\$ 0.580	\$ 0.580
	Torrington TS Host Benefit (per ton)	\$ 0.570	\$ 0.580	\$ 0.580
	Watertown TS Host Benefit (per ton)	\$ 0.570	\$ 0.580	\$ 0.580
Deliveries	Essex TS Host Benefit	66,641	67,500	66,400
	Torrington TS Host Benefit	57,294	56,000	56,100
	Watertown TS Host Benefit	113,251	112,000	112,800

MIRA - CONNECTICUT SOLID WASTE SYSTEM (CSWS)

ASSUMPTIONS

DETAILS		ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
WASTE TRANSPORT Fees	Essex MSW (ave per ton)	\$ 13.00	\$ 14.43	\$ 13.22
	Essex Recyclables (ave per ton)	\$ 20.10	\$ 21.65	\$ 20.50
	Torrington MSW (ave per ton)	\$ 11.34	\$ 13.01	\$ 11.49
	Torrington Recyclables (ave per ton)	\$ 21.83	\$ 23.66	\$ 22.25
	Watertown MSW (ave per ton)	\$ 12.86	\$ 14.43	\$ 13.08
	Watertown Recyclables (ave per ton)	\$ 19.96	\$ 21.65	\$ 20.36
	RRDD#1 per load MSW	\$ 108.34	\$ 108.34	\$ 108.34
	Ash to Other (blended rate per ton T&D)	\$ 57.54	\$ 58.29	\$ 61.00
	Non-processible Waste to Other (per ton T&D)	\$ 100.46	\$ 105.79	\$ 105.79
	South Central Facility	\$ 65.00	\$ 66.00	\$ -
	Southeast Project	\$ 58.00	\$ 58.00	\$ 58.00
	Hauled Tons			
	Essex MSW	58,100	59,000	58,100
	Essex Recyclables	8,541	8,500	8,300
MSW Byproduct Tons	Torrington MSW	48,878	47,000	48,000
	Torrington Recyclables	8,416	9,000	8,100
	Watertown MSW	107,515	106,000	107,000
	Watertown Recyclables	5,736	6,000	5,800
Diverted MSW Tons	RRDD#1 per load MSW	170	185	170
	Ash to Other	169,006	178,000	168,629
	Non-processible Waste to Other	151	750	150
	Southeast Project	5,448	1,000	440
Total Diverted MSW Tons		5,448	1,000	440

MIRA - CONNECTICUT SOLID WASTE SYSTEM (CSWS)

ASSUMPTIONS

DETAILS		ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
RECYCLING OPERATIONS				
Tip Fees	Single Stream Acceptable Recyclables	\$ -	\$ -	\$ -
	Dual Stream Acceptable Recyclables	\$ -	\$ -	\$ -
	Recycling Delivery Credit per Ton	\$ -	\$ -	\$ -
Inbound	CSWS Acceptable Commercial Recyclables (tons)	131	76	107
	CSWS Acceptable Residential Recyclables (tons)	56,603	49,924	51,893
	FCR Acceptable Commercial Recyclables (tons)	1,384	Incl Below	-
	FCR Acceptable Residential Recyclables (tons)	13,600	10,000	10,000
	Total Recyclable Materials	71,718	60,000	62,000
Outbound	Recycling Residue	8.73%	9.50%	9.00%
	CSWS Paper Per Ton Sales Revenue - ONP (MIRA Tons)	48.79%	39.71%	48.79%
	CSWS Paper Per Ton Sales Revenue - OCC (MIRA Tons)	19.82%	15.57%	19.82%
	CSWS Container Per Ton Sales Revenue (MIRA Tons)	31.39%	24.26%	31.39%
	CSWS Commercial Tons	0.20%	0.14%	
	FCR Paper Per Ton Sales Revenue-ONP (FCR Tons)	48.78%	9.26%	48.78%
	FCR Paper Per Ton Sales Revenue-OCC (FCR Tons)	19.81%	3.60%	19.81%
	FCR Container Per Ton Sales Revenue (FCR Tons)	31.41%	5.61%	31.41%
	FCR Commercial Tons	2.07%	1.85%	
	Recycling Residue Total	6,258	5,700	5,580
	Recycling Residue Chargeable	3,389	2,700	2,480
	CSWS Paper Per Ton Sales Revenue - ONP	25,677	21,563	23,040
	CSWS Paper Per Ton Sales Revenue - OCC	10,432	8,455	9,360
	CSWS Container Per Ton Sales Revenue	16,524	13,173	14,823
	CSWS Commercial Tons	131	76	
	FCR Paper Per Ton Sales Revenue-ONP	6,191	5,028	4,439
	FCR Paper Per Ton Sales Revenue-OCC	2,514	1,955	1,803
	FCR Container Per Ton Sales Revenue	3,986	3,046	2,858
	FCR Commercial Tons	1,384	1,005	
Recycling Sales	Residential Recyclables Per Ton Revenues	\$ 8.50	\$ 8.50	\$ 8.50
	Commercial Recyclables Per Ton Revenues	\$ 7.50	\$ 7.50	\$ 7.50
	CSWS Paper Per Ton Sales Revenue - ONP	\$ -	\$ -	\$ 3.00
	CSWS Paper Per Ton Sales Revenue - OCC	\$ 12.54	\$ 10.00	\$ 16.00
	CSWS Container Per Ton Sales Revenue	\$ 6.36	\$ 15.00	\$ 3.00
	CSWS Commercial Tons	\$ 58.17	\$ 50.00	\$ 50.00
	FCR Paper Per Ton Sales Revenue-ONP	\$ -	\$ -	\$ 1.00
	FCR Paper Per Ton Sales Revenue-OCC	\$ 2.51	\$ 2.00	\$ 3.00
	FCR Container Per Ton Sales Revenue	\$ 1.26	\$ 3.00	\$ 0.50
	FCR Commercial Tons	\$ 8.38	\$ 8.00	\$ 8.00
	Non-Participating Transfer Station Recycling Tons	4,184	-	4,050
	Non-Participating Transfer Station Recycling (price/ton)	\$ -	\$ -	\$ 16.00

ONP - Old Newspaper

OCC - Old Corrugated Cardboard

MIRA - CONNECTICUT SOLID WASTE SYSTEM DIVISION (CSWS)

REVENUES

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
49-001-000-40101	Service Charges Solid Waste-Participating Town	\$ 23,370,939	\$ 24,568,000	\$ 25,623,360
49-001-000-40110	Service Charges Solid Waste-Hauler Contracts	\$ 10,629,829	\$ 9,139,200	\$ 11,620,000
49-001-000-40109	Service Charges Solid Waste-Other Contracts	\$ 4,349,999	\$ 4,915,200	\$ 4,018,000
49-001-000-40103	Service Charges Solid Waste - Spot	\$ 759,055	\$ 3,412,000	\$ 681,400
49-001-000-40111	Member Service Fee	\$ 35,930	\$ 40,000	\$ 35,340
49-001-000-40112	Other Operating Charges	\$ (4,850)	\$ -	\$ -
49-001-000-41104	Metal Sales	\$ 657,141	\$ 1,135,000	\$ 573,750
49-001-000-41106	Municipal Bulky Waste & Mattresses/Box Spring	\$ 125,471	\$ 285,000	\$ 109,000
49-001-000-42101	Recycling Facility	\$ 1,063,073	\$ 979,828	\$ 1,029,498
49-001-000-xxxxx	Electricity	\$ 15,856,650	\$ 18,956,400	\$ 16,266,353
49-001-000-45150	Miscellaneous Income	\$ 28,473	\$ 25,245	\$ 23,323
49-001-000-46101	Interest Income	\$ 39,269	\$ 15,000	\$ 20,000
TOTAL OPERATING REVENUES		\$ 56,910,979	\$ 63,470,873	\$ 60,000,024

EXPENDITURES

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
49-001-501-57871	Administrative Expenses	\$ 2,966,386	\$ 3,160,621	\$ 2,811,877
49-001-501-xxxxx	Operational Expenses	\$ 2,018,003	\$ 2,932,035	\$ 3,002,019
49-001-xxx-xxxxx	Assessment, Fees, Subsidies, & PILOTs	\$ 2,597,372	\$ 2,715,000	\$ 2,611,474
49-001-505-xxxxx	Waste Transport	\$ 12,792,232	\$ 13,567,622	\$ 13,107,320
49-001-xxx-xxxxx	MIRA Facilities Operating Expenses	\$ 1,234,827	\$ 1,078,700	\$ 1,222,875
49-001-xxx-xxxxx	NAES Contract Operating Charges	\$ 27,155,691	\$ 30,289,971	\$ 29,311,258
49-001-xxx-52719	NAES On-Site Incentive Compensation	\$ 918,996	\$ 913,025	\$ 912,484
49-001-501-xxxxx	NAES Management Fees & Charges	\$ 1,215,969	\$ 1,233,000	\$ 1,241,029
49-001-501-59105	Murphy Road Operations Center	\$ 88,286	\$ 127,300	\$ -
49-001-xxx-xxxxx	Transfer Stations	\$ 1,621,137	\$ 1,706,900	\$ 1,693,100
49-001-506-xxxxx	Recycling Facility	\$ 498,329	\$ 591,215	\$ 656,750
TOTAL OPERATING EXPENDITURES		\$ 53,107,227	\$ 58,315,389	\$ 56,570,186
NET INCOME / (LOSS)		\$ 3,803,752	\$ 5,155,484	\$ 3,429,838

MIRA - CONNECTICUT SOLID WASTE SYSTEM DIVISION (CSWS)

DISBURSEMENT OF CSWS NET INCOME

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
49-001-501-52687	Contribution to CSWS Improvement Fund	\$ 9,053,440	\$ 10,320,705	\$ 15,285,667
49-001-000-47216	CSWS Tip Fee Stabilization Fund	\$ (5,249,688)	\$ (5,165,221)	\$ (9,969,265)
49-001-000-xxxxx	Contribution from Property Division General Fund	\$ -	\$ -	\$ (1,886,564)
TOTAL DISBURSEMENT OF CSWS NET INCOME		\$ 3,803,752	\$ 5,155,484	\$ 3,429,838
BALANCE		\$ -	\$ -	\$ -

TIP FEES

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
MSW	Tier 1 Short-term	\$ 64.00	\$ 66.00	\$ 70.00
	Tier 1 Long-term / Tier 3	\$ 62.00	\$ 64.00	\$ 68.00
	Tier 4	\$ 65.00	\$ 67.00	\$ 71.00
	Tier 2	\$ 66.00	\$ 68.00	\$ 72.00
	Other Contracts Tip Fee	(a)	(a)	(a)
	Hauler Contracts Tip Fee	\$ 64.00	\$ 64.00	\$ 70.00
	Municipal Bulky Waste	\$ 85.00	\$ 85.00	\$ 85.00
	Spot	\$ 37.61	(b)	(b)
Other	Mattresses/Box Spring Surcharge (per unit)	\$ 30.00	\$ 30.00	\$ 30.00
	Ferrous Residue (Inbound)	\$ 40.00	\$ 40.00	\$ 40.00
	Non-Participating Transfer Station Recycling Processing Fee	n/a	n/a	\$ 16.00

(a) Rate based on negotiated contract.

(b) Rate based on market condition.

MIRA - CONNECTICUT SOLID WASTE SYSTEM DIVISION (CSWS)

EXPENDITURE DETAILS

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
ADMINISTRATIVE EXPENSES				
	INDIRECT SALARIES/LABOR & BENEFITS - ADMINISTRATION	\$ 2,966,386	\$ 3,160,621	\$ 2,811,877
OPERATIONAL EXPENSES				
49-001-501-xxxxx	DIRECT SALARIES/LABOR & BENEFITS-OPERATIONAL	\$ 1,195,929	\$ 1,696,996	\$ 1,804,003
ASSET PROTECTION & STATUTORY COMPLIANCE				
49-001-501-52115	Legal Notices	\$ 1,606	\$ 7,500	\$ 6,400
49-001-501-52502	Fees/Licenses/Permits	\$ 480	\$ 600	\$ 600
49-001-501-52505	Claims/Losses	\$ 16,540	\$ 10,000	\$ 10,000
49-001-501-52602	Bad Debt Expense	\$ (178,749)	\$ 500	\$ -
49-001-501-52856	Legal	\$ (21,844)	\$ 100,000	\$ 120,000
49-001-501-52640	WPF and PBF Insurance Premium	\$ 851,304	\$ 932,560	\$ 932,110
49-001-501-52875	Insurance Broker	\$ 50,788	\$ 48,000	\$ 57,856
	Subtotal Asset Protection & Statutory Compliance	\$ 720,125	\$ 1,099,160	\$ 1,126,966
ENGINEERING, TECHNOLOGY, AND EQUIPMENT/FACILITY				
49-001-501-52899	Engineering & Technology Consulting Services	\$ 16,373	\$ 30,000	\$ 15,000
49-001-501-54482	Computer Hardware	\$ 1,834	\$ 5,000	\$ 2,000
49-001-501-54483	Computer Software	\$ -	\$ 300	\$ 250
	Subtotal Engineering, Technology, and Equipment/Facility	\$ 18,207	\$ 35,300	\$ 17,250
OTHER OPERATING EXPENSES				
49-001-501-52101	Postage & Delivery Fees	\$ 2,148	\$ 4,100	\$ 3,350
49-001-501-52108	Printing Services	\$ 4,555	\$ 7,500	\$ 5,500
49-001-501-52202	Office Supplies	\$ 1,949	\$ 1,500	\$ 1,500
49-001-501-52211	Protect Clothing/Safety Equipment	\$ 2,148	\$ 6,800	\$ 4,750
49-001-501-52302	Miscellaneous Services	\$ 8	\$ 179	\$ 200
49-001-501-xxxxx	Meetings & Training	\$ 1,941	\$ 11,500	\$ 2,500
49-001-501-52401	Vehicle Repair/Maintenance	\$ 13,048	\$ 11,000	\$ 13,000
49-001-501-52612	Fuel for Vehicles	\$ 6,658	\$ 13,000	\$ 10,000
49-001-501-52615	Temporary Agency Services	\$ 51,287	\$ 5,000	\$ 5,000
49-001-501-52859	Financial Services	\$ -	\$ 40,000	\$ 8,000
	Subtotal Other Operating	\$ 83,742	\$ 100,579	\$ 53,800
	TOTAL OPERATIONAL EXPENSES	\$ 2,018,003	\$ 2,932,035	\$ 3,002,019

MIRA - CONNECTICUT SOLID WASTE SYSTEM DIVISION (CSWS)

EXPENDITURE DETAILS

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
<u>ASSESSMENT, FEES, SUBSIDIES, & PILOTS</u>				
49-001-501-52507	City of Hartford PILOT	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
49-001-xxx-52508	Transfer Station Host Community Benefit Fees	\$ 150,183	\$ 151,500	\$ 151,474
49-001-602-52506	Solid Waste Assessment (Dioxin)	\$ 947,189	\$ 1,063,500	\$ 960,000
Subtotal Assessment, Fees, Subsidies, & PILOTS		\$ 2,597,372	\$ 2,715,000	\$ 2,611,474
<u>WASTE TRANSPORT</u>				
49-001-505-52701	Contract Operating Charges (excludes recycling transportation)	\$ 2,734,935	\$ 3,054,660	\$ 2,779,580
49-001-505-52710	Disposal Fees - Solid Waste Bypass	\$ 319,183	\$ 58,000	\$ 25,520
49-001-505-52711	Ash Disposal	\$ 9,722,571	\$ 10,375,620	\$ 10,286,352
49-001-505-52716	Non-Processible Disposal Fees	\$ 15,543	\$ 79,343	\$ 15,869
Subtotal Waste Transport		\$ 12,792,232	\$ 13,567,622	\$ 13,107,320
<u>MIRA FACILITIES OPERATING EXPENSES</u>				
49-001-601-52104	Telecommunications	\$ 1,843	\$ 1,625	\$ 1,900
49-001-601-52404	Building Operations	\$ 7,125	\$ 7,000	\$ 7,000
49-001-601-53304	Electricity	\$ 72	\$ 100	\$ 100
49-001-601-54482	Computer Hardware	\$ -	\$ 300	\$ 300
49-001-601-52407	Project Equipment Maintenance	\$ 450	\$ 3,500	\$ 1,500
49-001-601-52502	Fees/Licenses/Permits	\$ 7,175	\$ 5,875	\$ 5,875
49-001-601-52709	Other Operating Charges	\$ 33,816	\$ 34,000	\$ 34,000
49-001-601-52858	Engineering Consultants	\$ 37,185	\$ 49,100	\$ 40,700
49-001-601-52901	Environmental Testing	\$ 3,169	\$ 13,100	\$ 10,000
Subtotal MIRA WPF Operating Expenses		\$ 90,835	\$ 114,600	\$ 101,375
49-001-602-52502	Fees/Licenses/Permits	\$ 387,231	\$ 335,750	\$ 409,350
49-001-602-52720	Power Products Management Fee	\$ 73,952	\$ 75,800	\$ 120,000
49-001-602-52858	Engineering Consultants	\$ 27,856	\$ 27,100	\$ 22,700
49-001-602-52901	Environmental Testing	\$ 85,912	\$ 59,450	\$ 59,450
49-001-602-53304	Electricity	\$ 278,999	\$ 176,000	\$ 220,000
49-001-602-53309	Other Utilities	\$ 290,042	\$ 290,000	\$ 290,000
Subtotal MIRA PBF Operating Expenses		\$ 1,143,992	\$ 964,100	\$ 1,121,500
TOTAL MIRA FACILITIES OPERATING EXPENSES		\$ 1,234,827	\$ 1,078,700	\$ 1,222,875

MIRA - CONNECTICUT SOLID WASTE SYSTEM DIVISION (CSWS)

EXPENDITURE DETAILS

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
<u>NAES CONTRACT OPERATING CHARGES</u>				
49-001-601-52701	WPF Operating & Maintenance (O&M) Fees	\$ 4,913,357	\$ 4,693,700	\$ 4,653,400
49-001-601-52718	WPF Labor & Overhead	\$ 5,571,810	\$ 6,026,948	\$ 5,898,983
49-001-601-xxxxx	Subtotal NAES WPF Contract Operating Charges	\$ 10,485,167	\$ 10,720,648	\$ 10,552,383
49-001-602-52701	PBF Operating & Maintenance (O&M) Fees	\$ 9,338,347	\$ 11,480,058	\$ 10,978,205
49-001-602-52718	PBF Labor & Overhead	\$ 7,332,177	\$ 8,089,265	\$ 7,780,670
49-001-602-xxxxx	Subtotal NAES PBF Contract Operating Charges	\$ 16,670,524	\$ 19,569,323	\$ 18,758,875
TOTAL NAES CONTRACT OPERATING CHARGES		\$ 27,155,691	\$ 30,289,971	\$ 29,311,258
<u>NAES ON-SITE INCENTIVE COMPENSATION</u>				
49-001-601-52719	WPF On-Site Personnel Incentive Compensation	\$ 393,000	\$ 383,922	\$ 384,043
49-001-602-52719	PBF On-Site Personnel Incentive Compensation	\$ 525,996	\$ 529,103	\$ 528,442
Subtotal NAES On-Site Incentive Compensation		\$ 918,996	\$ 913,025	\$ 912,484
<u>NAES MANAGEMENT FEES & CHARGES</u>				
49-001-501-52703	Management Fee	\$ 864,723	\$ 816,000	\$ 848,537
49-001-501-52717	Engineering, accounting, and regulation expenses	\$ 351,246	\$ 417,000	\$ 392,492
Subtotal NAES Management Fees & Charges		\$ 1,215,969	\$ 1,233,000	\$ 1,241,029
<u>MURPHY ROAD OPERATIONS CENTER</u>				
49-001-501-59105	CSWS Share of Murphy Rd Operations Center	\$ 88,286	\$ 127,300	(c)
Subtotal Murphy Rd Operations Center		\$ 88,286	\$ 127,300	\$ -
<u>TRANSFER STATION - ELLINGTON (d)</u>				
49-001-610-52104	Telecommunications	\$ 86	\$ 1,000	\$ 100
49-001-610-52404	Building Operations	\$ 4,608	\$ 9,000	\$ 4,700
49-001-610-52415	Ground Maintenance	\$ -	\$ 5,000	\$ 3,000
49-001-610-53304	Electricity	\$ 3,693	\$ 5,000	\$ 4,000
49-001-610-52502	Fees/Licenses/Permits	\$ 2,500	\$ 2,500	\$ 2,500
Subtotal Ellington TS		\$ 10,887	\$ 22,500	\$ 14,300

(c) Due to closure of the Trash Museum in June 2016; All expenses moved to the Recycling Facility.

(d) The Ellington TS closed in January 2013.

MIRA - CONNECTICUT SOLID WASTE SYSTEM DIVISION (CSWS)

EXPENDITURE DETAILS

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
<u>TRANSFER STATION - ESSEX</u>				
49-001-611-52104	Telecommunications	\$ 2,120	\$ 2,100	\$ 2,400
49-001-611-52404	Building Operations	\$ 4,012	\$ 11,600	\$ 6,000
49-001-611-52407	Project Equipment Maintenance	\$ 8,538	\$ 11,500	\$ 10,000
49-001-611-52502	Fees/Licenses/Permits	\$ 1,050	\$ 1,550	\$ 1,500
49-001-611-52701	Contract Operating Charges	\$ 527,474	\$ 536,550	\$ 541,000
49-001-611-52858	Engineering Consultants	\$ -	\$ 5,000	\$ 2,000
49-001-611-52901	Environmental Testing	\$ 2,123	\$ 2,200	\$ 2,200
Subtotal Essex TS		\$ 545,317	\$ 570,500	\$ 565,100
<u>TRANSFER STATION - TORRINGTON</u>				
49-001-612-52104	Telecommunications	\$ 2,822	\$ 2,600	\$ 3,000
49-001-612-52404	Building Operations	\$ 3,406	\$ 10,000	\$ 8,800
49-001-612-52407	Project Equipment Maintenance	\$ 8,538	\$ 11,500	\$ 11,500
49-001-612-52502	Fees/Licenses/Permits	\$ 1,050	\$ 1,550	\$ 1,550
49-001-612-52701	Contract Operating Charges	\$ 504,931	\$ 514,250	\$ 519,000
49-001-612-52858	Engineering Consultants	\$ -	\$ 5,000	\$ 2,000
49-001-612-52901	Environmental Testing	\$ 1,923	\$ 2,500	\$ 2,500
Subtotal Torrington TS		\$ 522,669	\$ 547,400	\$ 548,350
<u>TRANSFER STATION - WATERTOWN</u>				
49-001-613-52104	Telecommunications	\$ 1,132	\$ 1,600	\$ 1,300
49-001-613-52404	Building Operations	\$ 3,803	\$ 9,000	\$ 8,800
49-001-613-52407	Project Equipment Maintenance	\$ 9,488	\$ 11,500	\$ 10,000
49-001-613-52502	Fees/Licenses/Permits	\$ 1,050	\$ 1,550	\$ 1,000
49-001-613-52701	Contract Operating Charges	\$ 525,533	\$ 536,600	\$ 541,000
49-001-613-52858	Engineering Consultants	\$ -	\$ 5,000	\$ 2,000
49-001-613-52901	Environmental Testing	\$ 1,257	\$ 1,250	\$ 1,250
Subtotal Watertown TS		\$ 542,263	\$ 566,500	\$ 565,350

MIRA - CONNECTICUT SOLID WASTE SYSTEM DIVISION (CSWS)

REVENUE & EXPENDITURE DETAILS

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
RECYCLING FACILITY				
REVENUES				
49-001-000-42101	Recycling Sales	\$ 1,063,073	\$ 979,828	\$ 1,029,498
EXPENDITURES				
49-001-506-52404	Building Operations	\$ 471	(e)	\$ 62,000
49-001-506-52407	Project Equipment Maintenance	\$ 14,318	\$ 25,500	\$ 18,000
49-001-506-52415	Grounds Maintenance	(e)	(e)	\$ 31,000
49-001-506-52502	Fees/Licenses/Permits	\$ 3,750	\$ 3,250	\$ 4,250
49-001-506-52701	Contract Operating Charges	\$ -	\$ 500	\$ 500
49-001-506-52707	Transportation Expense	\$ 468,723	\$ 526,865	\$ 468,500
49-001-506-52858	Engineering Consultants	\$ 8,246	\$ 31,100	\$ 17,000
49-001-506-52901	Environmental Testing	\$ 2,820	\$ 4,000	\$ 5,000
49-001-506-53304	Electricity	\$ -	\$ -	\$ 35,000
49-001-506-53309	Other Utilities	(e)	(e)	\$ 15,500
Total Expenditures		\$ 498,329	\$ 591,215	\$ 656,750

(e) Transferred to the Property Division in FY16.