MIRA
REGULAR BOARD MEETING
January 26, 2017

Materials Innovation and Recycling Authority
202 Corporate Plaza, Rocky Hill CT
Telephone (860)757-7700 - Fax (860)757-7743

MEMORANDUM

TO: MIRA Board of Directors

FROM: Moira Kenney, Assistant HR Manager/Board Administrator

DATE: Jan. 20, 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. Jan. 26, 2017, at 9:30 a.m. The meeting will be available to the public in the Board Room at 202 Corporate Place, Suite 202, Rocky Hill, CT 06067.

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

Materials Innovation Recycling Authority
Regular Board of Directors Meeting
Jan. 26, 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 Dec. 15, 2016 Board Meeting Minutes (Attachment 1).

IV. Polices & Procurement Committee Report

2. Board Action will be Regarding Amendment and Restatement of the Authority's Bylaws (Attachment 2).

3. Board Action will be sought for the Resolution Regarding an Agreement for Metals Recovery and Marketing Services (Attachment 3).

V. Finance Committee Report

4. Discussion of Draft FY 2018 CSWS Operating and Capital Budget (Attachment 4).

VI. Chairman and President's Reports

VII. Organizational Synergy & Human Resources Report

VIII. 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.

TAB 1

MATERIALS INNOVATION AND RECYCLING AUTHORITY

FOUR HUNDRED AND SEVENTY-SECOND **DEC. 15, 2016**

A regular meeting of the Materials Innovation and Recycling Authority Board of Directors was held on Thurs. Dec. 15, 2016, in the Board Room at 200 Corporate Place ..... Those present were:

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

Present from MIRA:

Tom Kirk, President
Mark Daley, Chief Financial Officer
Jeffrey Duvall, Director of Budgets and Forecasting
Thomas Gaffey, Director of Recycling and Enforcement
Laurie Hunt, Director of Legal Services
Tina Mateo, Assistant Director of Budgets and Cash Management
Chris Shepard, Environmental Compliance Engineer
Moira Kenney, Assistant HR Manager/Board Administrator

Others Present: Ann Catino, Esq., Halloran & Sage; Lee Sawyer and Peggy Diaz, Esq., Department of Energy and Environmental Protection; and John Pizzimenti, USA Hauling

Chairman Stein called the meeting to order at 9:34 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.

Lee Sawyer of the Department of Energy and Environmental Protection (hereinafter referred to as the "CT DEEP") addressed the Board. He said that the RFP process is behind schedule, although not critically. Mr. Sawyer said ownership of the project and property is being discussed and the intent is for MIRA to continue with ownership of the project for the duration of the thirty year period at which point the developer will have an option to take ownership of the property.

Mr. Sawyer said a more in depth look of the RFP process will be undertaken in Phase II with the proposer invited to meet with Hartford developers hopefully in January before submitting the final proposal in May. He said final bids will be due in May with a decision made in the following months to meet the statutory deadline of Sept. 1, 2017.

Mr. Sawyer said a good relationship with MIRA continues and the bidders are aware of the delay. He said meeting with the Board for further discussions is most likely a good idea. He introduced the Board to Peggy Diaz, Esq. who will serve as the main point of contact for the RFP going forward. Ms. Diaz addressed the Board and noted she was looking forward to a forming a good relationship with MIRA.

APPROVAL OF THE REGULAR NOV. 17, 2016 BOARD MEETING MINUTES

Chairman Stein requested a motion to approve the minutes of the Regular Nov. 17, 2016, Board Meeting as amended. Director Adams made the motion which was seconded by Vice-Chairman Barlow.

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

Directors	Aye	Nay	Abstain
Chairman Stein	X		
Vice-Chairman Barlow	X		
John Adams	X		
Marilyn Cruz-Aponte	X		
Jim Hayden	X		
Ralph Eno	X		
Andy Nunn	X		
Bob Painter	X		
Scott Shanley			X
Patricia Widlitz	X		

POLICIES AND PROCUREMENT REPORT

Director Adams reported that the P&P Committee conducted a review of the HDR spot waste report at its last meeting. He said there are still some recommendations that the Committee is working on. Vice-Chairman Barlow added that some changes to the by-laws will also be brought to the full Board in January.

DISCUSSION OF DRAFT FY 2018 TRASH TO ENERGY FACILITY O&M BUDGET

Mr. Daley said this budget primarily reflects the NAES operating and maintenance expenses for the WPF and the PBF. He said as a historical bench mark the resource recovery facility is about 57% of the total CSWS budget and therefore management brings the discussion to the Finance Committee as early as possible for an in-depth review. Mr. Daley said the current budget comes in at $33.4 million which is a 9.9% increase from FY'16 actual. He said the original draft presumed a processing level of

720,000 plus tons and 390 million plus kilowatt hours of power which is not in line with the plant's historic production levels.

Mr. Daley said there are 115 jobs on site at that facility from NAES. He said in terms of the funding there are four position's split funded between the WPF and the PBF. Mr. Daley said the jobs break down into 10 management, 4 administrative, 9 supervisory, and 92 operational positions. He said these are good paying jobs with salaries at the WPF ranging from a high of $127,000 to a low of $63,000 and at the PBF that range is $158,000 - $43,000, not including a bonus program. He explained the bonus program is a maximum of 20% of the salary for managers, 15% at the management level, and 10% for the remainder of the employees and is determined by a performance review. Mr. Daley said management budgets for that at 85% of the maximum bonus available by contract.

Mr. Kirk said management has identified some possible head count reduction on the NAES side over time however there has not been a reduction on the operations and maintenance side for several years. He said when NAES took over for MDC there were roughly 20 positions eliminated in that process and management continues to search out possible savings and challenges NAES overhead and administrative costs where possible.

Mr. Daley said roughly $1.2 million needs to be reduced from the $33.4 million to be within the 6% benchmark increase from FY 2016 actual spending discussed with the Board in October. He said management found one third of that in how benefits are accumulated and calculated which did not affect the employee's benefits but was merely a bookkeeping correction. Mr. Daley said the January meeting will have a revised trash to energy facility budgeted incorporated into a full draft CSWS budget with these changes reflected.

Mr. Egan said outside contractors are often used during unscheduled outages to do pressure part work. He said the maintenance piece of the budget is split between outside contractors and NAES. Mr. Daley said the maintenance line items are typically routine. Vice-Chairman Barlow asked to see the trends for outside maintenance for further projections.

Mr. Daley said the other major area of resource for NAES is the home office support from people not on site which are paid separately. He said in FY'16 MIRA paid for 1,807 hours of home office support for project managers, directors, engineers and environmentalists. He said a few hours for back office accounting are also included and the total budget amount for that is roughly $400,000.

Director Adams asked what the $73,000 increase for fees, license and permits was for. Mr. Egan said most of that is for a budgeted increase for MIRA's title five air operating permit annual compliance fee which is for roughly $370,000 and has fluctuated over time. He said the billing each year is based on how much money the CT DEEP needs and over time the bill has increased as the amount of billable organizations has gone down.

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

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

RESOLUTION REGARDING APPROVAL OF THE DRAFT FY 2018 PROPERTY DIVISION BUDGET

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

WHEREAS, The Authority has previously established a tip fee stabilization fund within its Property Division intended to be drawn upon by the Connecticut Solid Waste System (CSWS) during periods of relatively low wholesale energy prices and refunded to the Property Division during periods of relatively high energy prices as a means to mitigate inflationary pressures on CSWS solid waste disposal fees; and

WHEREAS, Effective with the disbursement of receipts for the period ending September 30, 2015 and continuing through and including the disbursement of receipts for the period ending June 30, 2016, the Authority authorized all Property Division receipts remaining within the Property Division Clearing Account after disbursement to the Property Division Operating STIF to be transferred directly to the CSWS Tip Fee Stabilization Fund in lieu of the Property Division general fund, and further increased the maximum tip fee stabilization fund value by the amount of such transfers, in recognition of CSWS budgetary pressures associated with declining energy output and low wholesale energy prices; and

WHEREAS, Effective with the disbursement of receipts for the period ending July 31, 2016 and continuing through and including the disbursement of receipts for the period ending June 30, 2017, the Board of Directors authorized all Property Division receipts remaining within the Property Division Clearing Account after disbursement to the Property Division Operating STIF and Improvement Fund to be transferred directly to the CSWS Tip Fee Stabilization Fund in lieu of the Property Division General Fund, and further increased the maximum tip fee stabilization fund value by the amount of such transfers provided that management report monthly to the Board on the status of such transfers to the tip fee stabilization fund which are not exceed three million dollars during this period without further Board authorization; and

WHEREAS, The Authority anticipates that declining non disposal fee revenue from energy sales, non-participating town tip fees and recycling activities will continue to put added pressure

on CSWS tip fees in connection with the development of its fiscal year 2018 operating and capital budget.

NOW THEREFORE, be it

RESOLVED: That the Fiscal Year 2018 Materials Innovation and Recycling Authority Operating and Capital Budgets for the Property Division attached hereto as Exhibit A be adopted substantially in the form as presented in Exhibit B attached hereto and discussed at this meeting; and

FURTHER RESOLVED: That a Jets Major Maintenance Reserve be established within the State Treasurer's Short Term Investment Fund, which fund shall, subject to further Board approval, be used to provide an additional source of funding for Jets major maintenance and capital improvements not identified in the Operating and Capital Budgets; and

FURTHER RESOLVED: That the sum of seven hundred three thousand dollars ($703,000) be transferred to the Jets Major Maintenance Reserve as part of the disbursement of July and August 2017 Property Division receipts; and

FURTHER RESOLVED: That effective with the disbursement of receipts for the period ending July 31, 2017 and continuing through and including the disbursement of receipts for the period ending June 30, 2018, the Board of Directors authorizes Property Division receipts remaining within the Property Division Clearing Account after disbursement to the Property Division Operating STIF, Improvement Fund and Jets Major Maintenance Reserve to be transferred directly to the CSWS Tip Fee Stabilization Fund in lieu of the Property Division General Fund, and the maximum Tip Fee Stabilization Fund value is hereby increased by the amount of such transfers. Management is directed to report monthly to the Board on the status of such transfers to the Tip Fee Stabilization Fund which shall not exceed five million dollars during this period without further Board authorization.

Mr. Daley said the resolution acknowledges the tip fee stabilization fund has been established and all property division income is to be disbursed to the tip fee stabilization fund for FY'16 and FY'17. He said last years' budget implemented enhanced reporting requirements as well as an interim cap of $3 million that can be disbursed into the fund without further approval from the Board. Mr. Daley said there is continued pressure the tip fees anticipated for FY'18. He said a jets' major maintenance reserve is being created as well. Mr. Daley said $703,000 will be transferred into that jets major maintenance reserve which can only be utilized with further Board approval.

Mr. Daley said in addition in FY'18 MIRA will continue to deposit all income from the Property Division fund into the tip fee stabilization fund with a $5 million cap that MIRA cannot exceed without further Board approval. Mr. Daley reviewed the detailed power point presentation contained in the package as back-up for this resolution.

Mr. Daley said management is recommending the acquisition of a new spare jet engine. He said the spare jet engine MIRA currently has is scheduled for a roughly $750,000 overhaul. He said MIRA has an opportunity to acquire a rebuilt jet engine for $250,000. Mr. Daley said management has

inspected the jet which comes with a one year warrantee and has only 200 hours on it from its last overhaul. Mr. Kirk added that the Attorney General has indicated that the purchase of this jet will not trigger new strict air pollution control regulations for the facility as it is routine repair. Mr. Egan said the CT DEEP has also confirmed this.

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

Directors	Aye	Nay	Abstain
Chairman Stein	X		
Vice-Chairman Barlow	X		
Marilyn Cruz-Aponte	X		
John Adams	X		
Jim Hayden	X		
Ralph Eno	X		
Andy Nunn	X		
Bob Painter	X		
Scott Shanley	X		
Patricia Widlitz	X		

RESOLUTION REGARDING APPROVAL TO INCREASE FUNDING AND EXPENDITURE AUTHORITY FOR THE PROPERTY DIVISION

Chairman Stein requested a motion on the above referenced item. Director Shanley made the motion which was seconded by Director Hayden. Moira – this is the wrong resolution. Need the one that amended the FY 2017 Property Division budget.

WHEREAS, at its November 19, 2015 meeting, the Materials Innovation and Recycling Authority (MIRA) Board of Directors approved the fiscal year 2017 Property Division Improvement Fund contributions and expenditures of $950,000 for capital expenditures related to Property Division assets; and

WHEREAS, budgeted projects were delayed to address issues with generator #14 of the Jets Facility and due to emergent work related to generator #14, the fiscal year 2017 Property Division capital expenditures funding is now $172,000 insufficient to complete the remaining generator work; and

WHEREAS, MIRA has a short term opportunity to purchase a refurbished spare jet engine for the net sum of $250,000 after the trade in of MIRA's existing spare jet engine in need of refurbishment; and

WHEREAS, MIRA estimates that refurbishment of its existing spare jet engine would cost $750,000 in fiscal year 2018; and.

WHEREAS, MIRA has sufficient funds in the Property Division's General Fund to transfer the $422,000 required to complete the generator #14 repairs and purchase the refurbished spare jet engine in fiscal year 2017.

NOW THEREFORE, be it

RESOLVED: That $422,000 be transferred from the Property Division General Fund to the Property Division Improvement Fund for the expressed purpose of purchasing one refurbished spare jet engine and completing necessary work on generator #14, and

FURTHER RESOLVED: That the Property Division fiscal year 2018 budget reflect contributions of $422,000 to the Property Division General Fund from operating revenues for repayment of the funds being transferred for the completion of generator #14 work and the purchase of one refurbished spare jet engine.

Mr. Daley said an additional $422,000 will be transferred from the Property Division's General Fund to the Property Division Improvement Fund in order to add the refurbished jet engine as well as complete necessary work on generator #14. He said that $422,000 will be refunded to as part of the flow of funds moving forward in FY'18.

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

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

RESOLUTION REGARDING APPROVAL OF THE DRAFT FY2018 LANDFILL DIVISION

Chairman Stein requested a motion on the resolution above. Director Shanley made the motion which was seconded by Director Hayden.

RESOLVED: That the Fiscal Year 2018 Landfill Division Operating Budget attached hereto as Exhibit A be adopted substantially in the form as presented and discussed at this meeting.

Mr. Daley said the majority of the revenues are from the revenue share program with the City of Hartford for the solar panels on the Hartford Landfill. He said there is a use of reserve for FY'18 for

$168,000 driven by the expiration of the three year pollution legal liability insurance which management is in the process of renewing.

Mr. Daley said on the expense side there is $154,000 in insurance premiums which covers the cash spending needed in FY 2018 for that three year policy. He said the other expenses are associated with operating the solar panels.

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

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

RESOLUTION REGARDING A CHANGE TO ONE OF MIRA'S BENEFIT PROVIDERS

Chairman Stein requested a motion on the resolution above. Director Hayden made the motion which was seconded by Director Shanley.

WHEREAS, at its November 17, 2016 meeting, this Board authorized the renewal of MIRA's employee insurance benefit plans with the incumbent providers, and commissioned the Organizational Synergy and Human Resources Committee to discuss and finalize with management and MIRA's benefits broker the particulars of such renewals; and

WHEREAS, in its review of the proposed benefit plan renewals with management and MIRA's benefits broker at its November 30, 2016 meeting, the OS and HR Committee determined to replace Lincoln Financial as MIRA's life and disability insurance provider;

Now, therefore, it is hereby

RESOLVED: That the Board of Directors authorizes the renewal of MIRA's life and disability insurance with Met Life instead of with Lincoln Financial.

Director Hayden said that Metlife has a quality program, is the low bidder and will save money for MIRA. Mr. Kirk said the Board had originally provided approval for the incumbent providers as the bids came in very late, however as Metlife was ultimately a better deal this additional resolution was required.

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

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

PRESIDENT'S REPORT

Mr. Kirk said all facilities operated within environmental, public safety and health expectations within the reporting period. He said the results are through October 31, 2016 during which MIRA's revenue was $3.9 million or 18% below budget and included a planned cold iron outage which coincided with an annual planned outage for unit 12. He said throughout the period availability of the boilers was fair to poor with five unscheduled outages and four others due to pressure part problems in unit 11 and 13.

Mr. Kirk said waste throughput and steam production has improved from prior year metrics. Duct repairs were accomplished during the cold outages. This was a concern for the CT DEEP as a potential ground level pollution source; however those concerns have since been alleviated with the repairs.

Mr. Kirk said operating expenses were $5.14 million or 7% favorable to the budget. He said year to date the CSWS has an operating income of $1.35 million which is unfavorable to the budget by $.6 million. Mr. Kirk said power prices continue to disappoint however in October the first 20 megawatts of MIRA's power will be sold by contract at 3.8 cents with another 10 megawatts sold in an additional contract in December at just under 4.3 cents.

Mr. Kirk said MIRA has sufficient waste to operate at capacity however solid waste deliveries are below budget as far as town deliveries are concerned. He said average pricing is at budget levels. He said recycling revenues for October have been very favorable and tonnage throughput has improved. Mr. Kirk said commodities pricing continues to be low with metal prices (especially ferrous) very low, although there has been some stabilization and improvement in containers and fiber.

Mr. Kirk said MIRA continues to work cooperatively with the CT DEEP process. He said the three participants are making appointments and plans to visit the MIRA facility for more detail and diligence in preparation of the phase II bids.

EXECUTIVE SESSION

Chairman Stein requested a motion to enter into Executive Session to discuss real estate matters. The motion was made by Director Shanley and seconded by Director Adams 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
Chris Shephard

The Executive Session began at 11:45 p.m. and concluded at 12:30 p.m. Chairman Stein noted that no votes were taken in Executive Session.

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

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

The meeting was reconvened at 12:30 p.m. The door was opened, and the Board Secretary and all members of the public (of which there were none) were invited back in for the continuation of public session.

ADJOURNMENT

Chairman Stein requested a motion to adjourn the meeting. The motion to adjourn was made by Director Adams seconded by Vice-Chairman Barlow and was approved unanimously

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

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

There being no other business to discuss, the meeting adjourned at 12:30 p.m.

Respectfully Submitted,

Moira Kenney
Assistant HR Manager/Board Administrator

TAB 2

RESOLUTION OF THE BOARD OF DIRECTORS OF THE MATERIALS INNOVATION AND RECYCLING AUTHORITY APPROVING THE AMENDMENT AND RESTATEMENT OF THE AUTHORITY's BYLAWS

RESOLVED: That the Board hereby approves and adopts the attached revision, amending and restating the Authority's Bylaws in their entirety.

CONNECTICUT RESOURCES RECOVERY AUTHORITY

~~Amended And Restated~~

BYLAWS
OF
THE
~~CONNECTICUT RESOURCES RECOVERY~~ MATERIALS INNOVATION AND RECYCLING AUTHORITY

~~Revised: October 25, 2007~~

January ___, 2017

TABLE OF CONTENTS

ARTICLE I - AUTHORITY FOR BYLAWS 1
101 Authority 1

ARTICLE II - DEFINITIONS 1
201 Definitions 1

ARTICLE III - BOARD OF DIRECTORS 2
301 Authority, Membership, Terms, Vacancies 2
302 Appointment of Chairperson 3
303 Ad Hoc Members 3
304 Duties 4
305 Chairperson 4
306 Vice Chairperson 4
307 Resignation; Removal 4
308 Delegation of Powers 4
309 Standing and Special Committees 5

ARTICLE IV - OFFICERS 5
401 Appointment 5
402 President 5
403 Delegation 6
404 Acting President 6
405 Chief Financial Officer 6
406 Secretary 6
407 Additional Duties 6
408 Standards of Conduct 6
409 Resignation 7

ARTICLE V - MEETINGS OF BOARD OF DIRECTORS 7
501 Regular Meetings 7
502 Special Meetings 8
503 Notice of Monthly or Special Meeting; Waiver 8
504 Quorum; Transaction of Business 8
~~505 Temporary Borrowing for Mid-Connecticut Project ..... 9~~
~~506 Organization ..... 10~~
~~507 Executive Session ..... 10~~
~~508 Recessed Meeting ..... 11~~
~~509 Method of Voting ..... 11~~
~~510 General Standards of Conduct for Directors, Ad Hoc Members ..... 11~~
~~511 No Invalidity ..... 12~~505 Organization 10
506 Executive Session 10
507 Recessed Meeting 11
508 Method of Voting 11
59 General Standards of Conduct for Directors, Ad Hoc Members 11
510 No Invalidity 12

ARTICLE VI - PERSONNEL AND PROCUREMENT POLICIES 12

601 Personnel and Procurement Policies 12

ARTICLE VII - FINANCIAL INFORMATION 12

701 Fiscal Year 12
702 Budget Process 12
703 Director Expenses 13

ARTICLE VIII - AMENDMENT OR REPEAL OF BYLAWS 14

801 Amendment or Repeal 14

ARTICLE IX - INDEMNIFICATION OF OFFICERS OR DIRECTORS 14

901 Indemnification 14
902 Payment of Current Expenses 15

ARTICLE X - SEAL, PLACE OF BUSINESS AND RECORDS 15

1001 Seal of the Authority 15
1002 Office of the Authority 15
1003 Records of the Authority 16

ARTICLE I - AUTHORITY FOR BYLAWS

101 Authority

These Bylaws are adopted pursuant to the Act and the General Statutes Section 22a-265(6) and supplement and implement certain provisions of the Act.

ARTICLE II - DEFINITIONS

201 Definitions

Unless the context shall otherwise require, the following words and terms shall have the following meanings (if there is a conflict between these Bylaws and the Act, the Act shall govern):

(a) "Act" means Chapter 446e of the General Statutes of Connecticut, Section 22a-257 *et seq.*, as amended from time to time, commonly known as the "Connecticut Solid Waste Management Services Act" or the Authority's enabling act.

(b) "Ad Hoc Member" or "Ad Hoc Members" means an individual or individuals appointed pursuant to Section 22a-261(g) of the Act. Pursuant to the Act, the term "Ad Hoc Member" does not include Director.

(c) "Authority" means the ~~Connecticut Resources Recovery~~Materials Innovation and Recycling Authority, a body politic and corporate, constituting a public instrumentality and political subdivision of the State of Connecticut, created and established by ~~the Act~~Public Act 14-94 as successor to the Connecticut Resources Recovery Authority.

(d) "Board" means the Board of Directors of the Authority.

(e) "Chairperson" means the Chairperson of the Authority as referred to in Section 22a-261(c) of the Act and Article III of these Bylaws.

(f) "Director" or "Directors" means an individual or individuals appointed to the Board pursuant to Section 22a-261 of the Act and Article III of these Bylaws. Pursuant to the Act, the term "Director" does not include Ad Hoc Member.

(g) "Executive Session" means a meeting of the Board or a committee of the Board at which the public is excluded for one or more of the purposes described in Section 1-200(6) of the Freedom of Information Act.

(h) "Freedom of Information Act" means Section 1-200 *et seq.* of the General Statutes, as amended from time to time, commonly known as the "Freedom of Information Act".

(i) "General Statutes" means the General Statutes of Connecticut, Revision of 1958, as amended.

(j) "Municipal Official" means the first selectman, mayor, city or town manager or chief financial officer, or a municipal employee with extensive public works or waste management and recycling experience, of a municipality that has entered into a solid waste disposal services contract with the Authority and pledged the municipality's full faith and credit for the payment of obligations under such contract.

(k) "President" means the President of the Authority appointed by the Chairperson with the approval of the Directors pursuant to Section 22a-261(d) of the Act who shall be the Chief Executive Officer of the Authority.

~~(l)~~ "Project" means ~~one of the four (4)~~a waste management systems operated by the Authority ~~and more commonly known as:~~

~~(1) The Bridgeport Project;~~

~~(2) The Mid-Connecticut Project;~~

~~(3) The Southeast Project; or~~

~~(4)~~(l) ~~The Wallingford Project~~.

(m) "Vice Chairperson" means the Vice Chairperson of the Authority elected pursuant to Article III of these Bylaws.

ARTICLE III - BOARD OF DIRECTORS

301 Authority, Membership, Terms, Vacancies

(a) The powers of the Authority shall be vested in and exercised by the Board which may exercise all such authority and powers of the Authority and do all such lawful acts and things as are permitted by the Act or these Bylaws. The Board shall consist of eleven (11) Directors defined by the Act as follows:

(1) Three (3) appointed by the Governor, one (1) of whom shall be a Municipal Official of a municipality having a population of fifty thousand (50,000) or less and one (1) of whom shall have extensive, high-level experience in the energy field;

(2) Two (2) appointed by the president pro tempore of the Senate, one (1) of whom shall be a Municipal Official of a municipality having a population of more than fifty thousand (50,000) and one (1) of whom shall have extensive high-level experience in public or corporate finance or business or industry;

(3) Two (2) appointed by the speaker of the House of Representatives, one (1) of whom shall be a Municipal Official of a municipality having a population of more than fifty thousand (50,000) and one (1) of whom shall have extensive high-level experience in public or corporate finance or business or industry;

(4) Two (2) appointed by the minority leader of the Senate, one (1) of whom shall be a Municipal Official of a municipality having a population of fifty thousand (50,000) or less and one (1) of whom shall have extensive high-level experience in public or corporate finance or business or industry; and

(5) Two (2) appointed by the minority leader of the House of Representatives, one (1) of whom shall be a Municipal Official of a municipality having a population of fifty thousand (50,000) or less and one (1) of whom shall have extensive, high-level experience in the environmental field.

(b) No Director may be a member of the General Assembly. Not more than two (2) Directors appointed by the Governor shall be members of the same political party. ~~The appointed Directors shall serve for terms of four (4) years each, provided, of the Directors first appointed for terms beginning on June 1, 2002: (A) two (2) of the Directors appointed by the Governor, one (1) of the Directors appointed by the president pro tempore of the Senate, one (1) of the Directors appointed by the speaker of the House of Representatives, one (1) of the Directors appointed by the minority leader of the Senate, and one (1) of the Directors appointed by the minority leader of the House of Representatives shall serve an initial term of two (2) years and one month; and (B) the other appointed Directors shall serve an initial term of four (4) years and one month. The appointment of each Director for a term beginning on or after June 1, 2004,~~Directors shall be appointed for terms of four (4) years each and all appointments shall be made with the advice and consent of both houses of the General Assembly. Notwithstanding the foregoing, a Director's term shall end upon the Director's death or resignation. Any vacancy occurring other than by expiration of term shall be filled in the same manner as the original appointment for the balance of the unexpired term.

302 Appointment of Chairperson

Pursuant to Section 22a-261(c) of the Act, the Governor shall designate one of the Directors to serve as Chairperson of the Board, with the advice and consent of both houses of the General Assembly. The Chairperson of the Board shall serve as Chairperson at the pleasure of the Governor.

303 Ad Hoc Members

Pursuant to Section 22a-261(g) of the Act, if the legislative body of a municipality that is the site of a Project (i.e. a host community) passes a resolution requesting the Governor to appoint a resident of such municipality to be an Ad Hoc Member, the Governor shall make such appointment upon the next vacancy for the Ad Hoc Members representing such Project. Pursuant to Section 22a-261(g) of the Act, the Governor shall appoint with

the advice and consent of the General Assembly Ad Hoc Members to represent each Project provided at least one-half (1/2) of such members shall be chief elected officials of municipalities, or their designees. Each Project shall be represented by two (2) such members. The Ad Hoc Members shall be electors from a municipality or municipalities in the area to be served by the Project and shall vote only on matters concerning such Project. The terms of the Ad Hoc Members shall be four (4) years.

304 Duties

The Directors and Ad Hoc Members shall perform the duties imposed on them by the Act and by these Bylaws.

305 Chairperson

The Chairperson shall perform the duties of a Director imposed by the Act, by these Bylaws and by resolution of the Directors, and shall preside at all meetings of the Directors.

306 Vice Chairperson

A Vice Chairperson may be elected by a majority vote of the Board. The Vice Chairperson shall preside over meetings of the Board of Directors in the absence of the Chairperson. In the absence or incapacity of the Vice Chairperson, or in case of his or her resignation or death, the Directors shall select, from their regular number, an acting Vice Chairperson during the time of such absence or incapacity or until such time as the Directors shall select a new Vice Chairperson. The Vice Chairperson shall serve until his or her successor is elected.

307 Resignation; Removal

Any appointed Director who fails to attend three (3) consecutive regular meetings of the Board or who fails to attend fifty percent (50%) of all regular meetings of the Board held during any calendar year shall be deemed to have resigned from the Board. Any director may resign at any time by delivering notice to the Authority. A resignation is effective when the notice is delivered unless the notice specifies a later effective date. ~~If a resignation is made effective at a later date and the Authority accepts the future effective date, the Board may fill the pending vacancy before the effective date, provided, that the successor is not permitted to take office until the effective date.~~ The appointing authority for ~~such~~any Director may remove ~~any~~ such Director for inefficiency, neglect of duty or misconduct in office in the manner provided by Section 22a-261(~~1~~k) of the Act.

308 Delegation of Powers

The Directors may, by resolution, delegate to the President such powers of the Authority, as they believe necessary, advisable or desirable to permit the timely performance of the administrative functions of the Authority and to carry out the plans, policies, procedures and decisions of the Directors, pursuant to Section 22a-277 of the Act.

309 Standing and Special Committees

The Directors and Ad Hoc Members may delegate from time to time, as necessary or convenient, in conformity with the provisions of the Act or these Bylaws, committees comprised of three (3) or more Directors at least one (1) of whom shall be a Municipal Official, and at least one (1) of such Directors shall not be a State employee. An Ad Hoc Member shall be eligible to serve only on a special committee concerning the Project relating to his or her appointment. Such committee or committees shall have, and may exercise, all such authority as the Directors may delegate, including the power to adopt a resolution upon a majority vote of the ~~M~~members of the Committee at which a quorum is present. The Chairperson shall recommend the name of all standing committees and shall appoint a committee chairperson and all members of such committees. The Chairperson shall be an ex-officio voting member of all committees. In any committee comprised of four (4) or more Directors, a quorum for the transaction of business or the exercise of any power of a committee shall consist of fifty percent (50%) of the members of the committee other than the Chairperson. In any committee comprised of less than four (4) Directors, a quorum for the transaction of business or the exercise of any power of a committee shall consist of a majority of the members of the committee other than the Chairperson. A committee shall have the power to act by a majority of the members present at any meeting at which a quorum is in attendance. Each committee may elect a committee secretary and vice chairperson and shall maintain at all times minutes of its meetings including its ~~considerations, deliberations,~~ decisions and resolutions, and shall distribute copies of such minutes to committee members and to the Board as appropriate.

ARTICLE IV - OFFICERS

401 Appointment

The Board shall have the power to create positions for and employ such officers as it may deem to be in the interests of the Authority and in accordance with Section 22a-265 of the Act, and shall define the powers and duties of all such officers. All such officers shall be subject to the orders of the Board and serve at its discretion. Such officers shall include a President, appointed by the Chairperson in accordance with Section 22a-261(d) of the Act and Section 402 of these Bylaws. The Board shall be responsible for determining compensation for each officer. The act of appointment of an officer does not in and of itself create contract rights for such officer of the Authority.

402 President

The Chairperson shall, with the approval of the Directors, appoint a President of the Authority who shall be an employee of the Authority and be paid a salary prescribed by the Directors. The President shall supervise the administrative affairs and technical activities of the Authority in accordance with the directives of the Board, and shall perform all duties incident to the office of the President, including those duties imposed by the Act, by these Bylaws and by resolution of the Authority. The authorization of the President with respect to the Authority or certification as to the proceedings of the

Authority or any of the official documents and papers of the Authority on file in the Authority's office shall be deemed to be conclusive and binding on the Authority.

403 Delegation

The President may, with the approval of the Directors, assign or delegate to the officers and employees of the Authority, any of the powers that, in the opinion of the President, may be necessary, desirable or appropriate for the prompt and orderly transaction of the business of the Authority.

404 Acting President

The Directors, by a majority vote, may by resolution appoint some other person to serve as Acting President and perform the duties of the President in the event of the death, inability, absence or refusal to act of the President. Such person shall be subject to all of the same restrictions placed upon the President.

405 Chief Financial Officer

The Chairperson shall, with the approval of the Directors, appoint a Chief Financial Officer of the Authority who shall be an employee of the Authority and paid a salary prescribed by the Directors. The Chief Financial Officer shall direct the finance, accounting, budgetary, treasury and cash management functions of the Authority and shall perform such other duties as the Board shall delegate from time to time. The Chief Financial Officer shall perform his or her duties in a manner consistent with the directives of the Board, these Bylaws and all applicable statutes and regulations.

406 Secretary

The Chairperson shall, with the approval of the Directors, appoint a secretary who shall be an employee of the Authority. The Secretary shall be the custodian of the Seal of the Authority, shall keep or cause to be kept, minutes of all meetings of the Directors and Ad Hoc Members and shall have such other duties as shall be delegated to the Secretary from time to time.

407 Additional Duties

In addition to such powers and duties as are specified in the Act, these Bylaws and by the Board, the President and other officers of the Authority shall have the authority and shall be required to perform such other duties and functions which may by law and general usage pertain to the particular office and as may from time to time be required, unless the Board or the Act expressly state otherwise.

408 Standards of Conduct

An officer with discretionary authority shall discharge such authority:

(1) In good faith;

(2) With the care an ordinarily prudent person in like position would exercise under similar circumstances; and

(3) In a manner the officer reasonably believes to be in the best interests of the Authority.

In discharging such duties, an officer is entitled to rely on information, opinions reports or statements, including financial statements and other financial data, if prepared or presented by:

(1) One or more officers or employees of the Authority whom the officer reasonably believes to be reliable and competent in the matters presented; or

(2) Legal counsel, public accountants or other persons as to matters the officer reasonably believes are within the person's professional or expert competence.

An officer cannot so rely in good faith if he has knowledge concerning the matter in question that makes reliance otherwise permitted by this section unwarranted.

409 Resignation

An officer may resign at any time by delivering notice to the Authority. A resignation is effective when the notice is delivered unless the notice specifies a later effective date. If a resignation is made effective at a later date and the Authority accepts the future effective date, the Board may fill the pending vacancy before the effective date, provided, that the successor is not permitted to take office until the effective date. An officer's resignation does not affect the Authority's contract rights, if any, with the officer.

ARTICLE V - MEETINGS OF BOARD OF DIRECTORS

501 Regular Meetings

In accordance with Section 22a-263 of the Act, the Directors and Ad Hoc Members of the Authority shall meet at least monthly at the call of the Chairperson for the transaction of any lawful business of the Authority. The monthly meetings shall be held at such time and place as shall be designated in a written or printed notice of meeting given to the Directors and Ad Hoc Members at least three days prior thereto by the Chairperson or Vice Chairperson or President acting on behalf of the Chairperson. A schedule of regular monthly meetings of the Directors shall be filed not later than January 31 of each year in the office of the Secretary of the State and no meeting shall be held sooner than thirty (30) days after such schedule has been filed. A schedule of regular monthly meetings of the Directors and Ad Hoc Members shall be made available to the public through the internet by posting such schedule not more than seven (7) days after the schedule of meetings is established. The Board may permit any or all Directors and Authority employees to participate in a meeting by any means of communication by which all

~~Directors participating~~participants may simultaneously hear each other during the meeting so long as the public is able to participate in such meeting.

502 Special Meetings

The Chairperson may, when he or she deems it expedient, and shall, whenever requested by any three Directors, call a special meeting of the Board for the purposes of transacting any business designated in the notice. A written or printed notice for a special meeting shall be given to each Director and Ad Hoc Member at least twenty-four hours prior to the hour appointed for such special meeting. At such special meeting, no business shall be considered other than as designated in the notice. A notice of a call of a special meeting of the Directors and Ad Hoc Members shall be filed with Secretary of the State's Office as required by General Statutes Section 1-225(d). The Board may permit any or all Directors and Authority employees to participate in a meeting by any means of communication by which all ~~Directors participating~~participants may simultaneously hear each other during the meeting so long as the public is able to participate in such meeting.

503 Notice of Monthly or Special Meeting; Waiver

Notices of each meeting of the Authority shall be in writing and may be given by U.S. mail, facsimile, e-mail, or other delivery to each Director and Ad Hoc Member in person or addressed to the last known business or residence address of such Directors and Ad Hoc Members. Whenever any notice is required to be given by law or by these Bylaws, a waiver thereof in writing, signed by the person or persons entitled to the notice, whether before or after the time stated therein, shall be deemed equivalent thereto. If any person present at a meeting does not protest the lack of proper notice, prior to or at the commencement of the meeting, such person shall be deemed to have waived notice of such meeting.

504 Quorum; Transaction of Business

(a) Six (6) Directors of the Authority shall constitute a quorum for the transaction of any business or the exercise of any power of the Authority, provided, at least two (2) Directors appointed to the Board in their capacity as a Municipal Official pursuant to Section 22a-261(c) of the Act shall be present in order for a quorum to be in attendance. Only Directors, and not Ad Hoc Members, shall be counted in determining whether a quorum is present. For the transaction of any business or the exercise of any power of the Authority, and except as otherwise provided in the Act or these Bylaws, the Authority shall have power to act by a majority of the Directors present at any meeting at which a quorum is in attendance.

~~(b)~~ The following actions require the affirmative vote of at least two-thirds (2/3) of the Directors:

~~(3) Adoption of the annual plan of Solid Waste Management Operations prepared in conjunction with the Department of Environmental Protection pursuant to Section 22a-264 of the Act;~~

~~(4) Establishment of the maximum number of employees of the Authority prior to employing more than forty-five (45) persons;~~

~~(5)~~(1) Adoption of rules and procedures for purchasing and contracting operations pursuant to Section 22a-266(c) of the Act; and

~~(6)~~(2) Adoption of contracts involving a period of over five (5) years in duration or for which the annual consideration is greater than fifty thousand dollars ($50,000) pursuant to Section 22a-268 of the Act~~.~~; and

~~The~~

(3) Adoption of a "proposed procedure" pursuant to Connecticut General Statutes, Section 1-120 *et seq.*

The following actions require the affirmative vote of at least two-thirds (2/3) of the Directors present and eligible to vote ~~are required~~:

(1) Approval of any expenditure of fifty thousand dollars or more by the Authority for ~~the adoption~~an outside consultant; and

~~(c)~~(2) Adoption of a resolution to sit in Executive Session pursuant to the Freedom of Information Act and Section 507 of these Bylaws~~.~~; and

~~The affirmative vote of at least two-thirds (2/3) of the Directors and Ad Hoc Members present and eligible to vote are required for the addition~~

~~(d)~~(3) Addition of an agenda item at a regular meetings of the Board for subsequent business not already included in the meeting agenda on file at the principle office of the Authority twenty-four (24) hours in advance of such meeting.

~~505 Temporary Borrowing for Mid-Connecticut Project~~

~~Pursuant to Section 22a-268d of the Act, a two-thirds (2/3) vote of the Directors appointed pursuant to Section 301(a), (1) through (5) of these Bylaws, with the subsequent approval of the State Treasurer and the Secretary of the Office of Policy and Management, may authorize a temporary borrowing from the State of Connecticut of up to ninety-three million dollars ($93,000,000) for the purposes of supporting the repayment of debt issued by the Authority on behalf of the Mid-Connecticut Project.~~

All Board and committee meetings shall include time reserved for public comment regarding agenda items. The chairperson of each meeting shall have the discretion to limit such public comment to three minutes per speaker.

~~506~~505 Organization

At each meeting of the Directors and Ad Hoc Members, the Chairperson, or in his or her absence the Vice Chairperson, or in the absence, abstention or recusal of both, a Director chosen by a majority of the Directors then present, shall act as presiding officer of said meeting. The Secretary or another officer or employee of the Authority designated by the President shall act as secretary of the meeting. The secretary of each meeting shall prepare and maintain or cause the preparation and maintenance of the minutes of all business transacted at such meeting.

~~507~~506 Executive Session

(a) The Directors may make a determination to sit in Executive Session. An affirmative vote of at least two-thirds (2/3) of the Directors present and eligible to vote on such matter, taken at a public meeting and stating the reasons for such Executive Session, shall be necessary to approve such a resolution. The purpose and the conduct of the executive session shall be in accordance with the Freedom of Information Act and these Bylaws.

(b) The members of any committee of the Board may make a determination to sit in Executive Session. An affirmative vote of at least two-thirds (2/3) of the committee members present and eligible to vote on such matter, taken at a public meeting and stating the reasons for such Executive Session, shall be necessary to approve such a resolution. The purpose and the conduct of the Executive Session shall be in accordance with the Freedom of Information Act and these Bylaws.

(c) An Executive Session may be called for one or more of the following purposes:

(1) Discussion concerning the appointment, employment, performance, evaluation, health or dismissal of a public officer or employee, provided that such individual may require that discussion be held at an open meeting;

(2) Strategy and negotiations with respect to pending claims or pending litigation to which the Authority or a member thereof, because of the member's conduct as a member of such agency, is a party until such litigation or claim has been finally adjudicated or otherwise settled;

(3) Matters concerning security strategy or the deployment of security personnel, or devices affecting public security;

(4) Discussion of the selection of a site or the lease, sale or purchase of real estate when publicity regarding such site, lease, sale, purchase or construction would ~~cause a likelihood of increased~~adversely impact the price until such time as all of the property has been acquired or all proceedings or transactions concerning same have been terminated or abandoned; and

(5) Discussion of any matter which would result in the disclosure of public records or the information contained therein described in Section 1-210(b) of the Freedom of Information Act.

~~508~~507 Recessed Meeting

The Directors and Ad Hoc Members may recess a regular or special meeting. A Director or Ad Hoc Member absent from a regular or special meeting at which a resolution is passed for a recessed meeting shall be notified at least one hour prior to the hour appointed for such reconvening of the recessed meeting.

~~509~~508 Method of Voting

Unless otherwise required by the General Statutes or the Authority's Telephonic Meeting Policy, voting by the Directors and Ad Hoc Members shall be by voice vote or roll call at the discretion of the Chairperson. A tally of votes shall be taken and recorded in the Minutes of the meeting. A Director who is present at a meeting of the Board or a committee of the Board when corporate action is taken is deemed to have assented to the action unless:

(1) The Director's dissent or abstention from the action taken is entered in the minutes of the meeting; or

(2) The Director delivers written notice of dissent or abstention to the Chairman before the adjournment of the meeting or to the Authority immediately after adjournment of the meeting.

The right of dissent or abstention shall not be available to a Director who votes in favor of the action taken.

~~510~~509 General Standards of Conduct for Directors, Ad Hoc Members

Each Director and Ad Hoc Member shall discharge his or her duties as a Director or Ad Hoc Member respectively, including duties as a member of any committee:

(1) In good faith;

(2) With the care an ordinarily prudent person in a like position would exercise under similar circumstances; and

(3) In a manner such individual reasonably believes to be in the best interests of the Authority.

In discharging a Director's or Ad Hoc Member's duties, such individual is entitled to rely on information, opinions, reports or statements, including financial statements and other financial data, if prepared or presented by:

(1) One or more officers or employees of the Authority whom the Director or Ad Hoc Member reasonably believes to be reliable and competent in the matters presented;

(2) Legal counsel, public accountants or other persons as to matters the Director or Ad Hoc Member reasonably believes are within the person's professional or expert competence; or

(3) A committee of the Board of which the Director or Ad Hoc Member is not a member if the Director or Ad Hoc Member reasonably believes the committee merits confidence.

A Director or Ad Hoc Member is not acting in good faith if he or she has knowledge concerning the matter in question that makes reliance, otherwise permitted, unwarranted.

~~511~~510 No Invalidity

Failure to follow any procedure provided for in these Bylaws shall not render any action taken by the Directors ineffective unless it is ineffective under law. It is intended that these Bylaws be consistent with the Act and with the Freedom of Information Act. If any inconsistency should nevertheless appear, the provisions of the applicable law shall control.

ARTICLE VI - PERSONNEL AND PROCUREMENT POLICIES

601 Personnel and Procurement Policies

The Directors shall establish from time to time such rules and regulations as may be necessary to provide an adequate and systematic procedure for handling the personnel affairs of the administrative staff of the Authority and for handling the procurement policies of the Authority.

ARTICLE VII - FINANCIAL INFORMATION

701 Fiscal Year

The Fiscal Year of the Authority shall commence on the first day of July and end on the last day of the following June.

702 Budget Process

~~Each proposed budget shall be forwarded by management~~Proposed budgets for the Authority's General Administration, Connecticut Solid Waste System, Property Division, Landfill Division, or other project or division established by the Directors shall each be forwarded by the President to the Authority's Finance Committee for comment, review and recommendations prior to its submission to the Directors for adoption.

Each proposed budget, if and as amended by the Authority's Finance Committee, shall be forwarded to the Directors in the standard monthly Board package for adoption in accordance with the requirements of applicable solid waste ~~contract terms~~contracts and ~~respective~~ bond indentures.

~~The Directors shall evaluate and adopt the ensuing fiscal year budgets as follows:~~

~~(4) Authority General Fund and Capital Improvement Budget no later than the regular meeting of the Directors in February;~~

~~(5) Southeast Project Operating Budget no later than the regular meeting of the Directors in December;~~

~~(6) Bridgeport Project Operating Budget no later than the regular meeting of the Directors in January or by January 31st;~~

~~(7) Wallingford Project Operating Budget no later than the regular meeting of the Directors in January or by January 31st; and~~

~~(8) Mid-Connecticut Operating Budget no later than the regular meeting of the Directors in February or by March 2nd.~~

~~Such~~Each proposed budgets shall contain an estimate of all revenues and receipts anticipated from all current sources, including the use of reserves or inter-fund transfers, in the ensuing fiscal year, the estimated expenditures (including reserve contributions) necessary for the operation of the various activities of the Authority for that year and a balanced relation between the total estimated expenditures and total anticipated revenues and receipts. The Directors shall review the proposed budgets, modify ~~it~~them where appropriate, and then adopt ~~a~~ final budgets no later than the ~~budget~~ deadlines established ~~for each~~ by applicable Project agreements. After adoption of ~~the~~ all final ~~budget~~budgets, and prior to the start of each Fiscal Year, the President shall ensure the proper allocation of ~~the~~each budget to an established chart of accounts. ~~Budget~~Total appropriations allocated to the accounts of ~~the Authority~~each budget shall not be exceeded without the prior approval of the Directors. The President may transfer funds within the ~~line items for each Project~~accounts of any budget without limit as long as ~~each line item of each Project and~~ the ~~grand~~ total of ~~each fund is~~all accounts within such budget does not ~~exceeded~~exceed the total appropriations approved by the Directors for such budget without the prior approval of the Directors.

An Ad Hoc Member shall be eligible to vote only on the budget concerning the Project relating to his or her appointment.

703 Director Expenses

As provided by Section 22a-261(c) of the Act, Directors and Ad Hoc Members shall be entitled to reimbursement by the Authority for actual and necessary expenses incurred during the performance of their official duties. All reimbursements shall be made in a manner consistent with the Authority's Travel Policy and Expense Reporting.

ARTICLE VIII - AMENDMENT OR REPEAL OF BYLAWS

801 Amendment or Repeal

These Bylaws may be repealed or amended, or new Bylaws may be adopted, only by the affirmative vote of the majority of a quorum of the ~~full~~ Board of Directors of the Authority at any regular or special meeting in a manner consistent with the Act. Action by the Board to adopt or amend a bylaw that changes a required voting requirement for the Board not fixed by the Act must meet the same quorum requirement and be adopted by the same vote required to take action under the quorum and voting requirement then in effect or proposed to be adopted, whichever is greater. The Authority may adopt rules for the conduct of its business, and the adoption of such rules shall not constitute an amendment of these Bylaws, unless specifically so stated.

ARTICLE IX - INDEMNIFICATION OF OFFICERS OR DIRECTORS

901 Indemnification

~~The Authority shall indemnify any Officer, Director, representative or Ad Hoc Member who is a party, or who is threatened to be made a party, to any threatened, pending or completed action, suit or proceeding, whether civil, administrative or investigative by reason of the fact that he or she is or was serving as Director, Officer, representative or Ad Hoc Member of the Authority, against judgments, fees, amounts paid in settlement and expenses, including attorneys' fees, actually and reasonably incurred by him and the person whose legal representative he or she is, in connection with such action, suit or proceeding, or any appeal therein - as long as the Officer, Director, representative, or Ad Hoc Member was not wanton or willful. The Authority shall not so indemnify any such person unless it shall be concluded:~~

~~(9) By the Directors, by a consent in writing signed by a majority of those Directors who were not parties to such action, suit or proceeding; or~~

~~(10) By independent legal counsel selected by a consent in writing signed by a majority of those Directors who were not parties to such action, suit or proceeding,~~

~~that such person, and the person whose legal representative he or she is, acted in good faith and in a manner he or she reasonably believed to be within his or her statutory authority, and he or she was not wanton or willful, including without limitation, Section 22a-261(n) of the Act. In the event that there are less than three Directors not parties to the action, suit or proceeding in question, then the matter of indemnification shall be submitted to an independent third party selected unanimously by the remaining Directors, or, if this is not possible, by a majority vote of the entire Board, subject to the qualification that, so long as there is at least one Director not a party to the action or proceeding, a third party will not be chosen unless deemed acceptable to that Director.~~

The Authority shall indemnify any officer, Director, employee or Ad Hoc Member in accordance with the requirements of applicable law, including Connecticut General Statutes Sections 1-125 and 22a-261.

902 Payment of Current Expenses

Expenses which may be indemnified under Article IX, Section 901 of these Bylaws incurred in defending an action, suit or proceeding, may be paid by the Authority in advance of the final disposition of such action, suit or proceeding upon agreement by or on behalf of the ~~O~~officer, Director, ~~representative,~~ Ad Hoc Member, or employee ~~or agent, or his or her legal representative,~~ to repay such amount if he or she is later found not entitled to be indemnified by the Authority ~~as authorized in Section 901 above. Such reimbursement shall be in a manner consistent with Section 1-125 of the General Statutes~~.

ARTICLE X - SEAL, PLACE OF BUSINESS AND RECORDS

1001 Seal of the Authority

(a) The official seal of the Authority shall be circular in form and shall have inscribed thereon the following words and figures: "~~Connecticut Resources Recovery~~Materials Innovation and Recycling Authority, ~~1973~~2014" and such additional matter as may be approved from time to time by the Directors of the Authority pursuant to the Act.

(b) In the execution on behalf of the Authority ~~O~~of any instrument document, writing, notice or paper, it shall not be necessary, unless specifically required by law, to affix the official seal of the Authority, and such instrument, document, writing, notice, or paper when executed without the seal affixed shall be of the same force and effect and is binding on the Authority as if the official seal had been affixed in each instance. The use of the seal shall be symbolic only.

(c) The official seal need not be impressed on any instrument, document, writing, notice, or paper, but the same shall be sufficiently sealed if the official seal or a facsimile thereof is engraved, imprinted or otherwise reproduced thereon.

(d) The Secretary, or in the absence of the Secretary, a designee appointed by the President or Chairperson, may certify as to the official seal or its facsimile as of any date or with respect to any instrument, document, writing, notice, or paper, and any such certification shall be conclusive as to the form of the official seal and that any instrument, document, writing, notice, or paper has been duly and properly sealed by the Authority.

1002 Office of the Authority

The main office of the Authority shall be maintained at ~~100 Constitution Plaza, Hartford, Connecticut, or at such other~~such place or places within the State as the Authority may

designate. The Authority shall not be required to hold any of its meetings at such office. The Authority may maintain other offices in the State.

1003 Records of the Authority

The records of the Authority shall be kept and maintained pursuant to Section 22a-263 of the Act and the State Librarian's Public Records Management Program, and in such a manner and for that period of time as the Directors, acting upon the advice of the Authority's counsel and accountants, deem appropriate. The written records of the Authority will be made available to the public as required by the Freedom of Information Act. ~~Records of the Authority shall be maintained in accordance with State of Connecticut guidelines.~~

REVISION

Approved By: Board of Directors
Effective Date: June 20, 2003

REVISION

Approved By: Board of Directors
Effective Date: September 25, 2003

REVISION

Approved By: Board of Directors
Effective Date: March 24, 2005

REVISION

Approved By: Board of Directors
Effective Date: October 25, 2007

REVISION

Approved By: Board of Directors
Effective Date:

TAB 3

RESOLUTION REGARDING AGREEMENT FOR METALS RECOVERY AND MARKETING SERVICES

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 and discussed at this meeting.

Materials Innovation and Recovery Authority
Agreement for Metals Recovery and Marketing Services
Agreement Summary

Presented to Board:	January 26, 2017
Contractor:	wTe Recycling, Inc.
Term:	July 1, 2017 through June 30, 2024
Contract Type:	Revenue
Scope of Services:	Transportation, processing and marketing services for municipal solid waste pre-and-post-combustion ferrous and maintenance scrap metals.
Facility:	CSWS South Meadows Resource Recovery Facility ("Facility")
Revenue Value:	The per ton pre-and-post-combustion ferrous metal rate paid to MIRA for metals sold is tied to the Philadelphia High Side Shredded Auto Scrap Index as published by American Metal Market. The Non-contaminated maintenance scrap metal per ton rate paid to MIRA is tied to the #1 HMS High Side Index as published by American Metal Market. Based on market index prices and volume of metal recovered in FY2016, MIRA realized approximately $660,000 in revenue from the metals sold.
Key Agreement Provisions:	MIRA makes no guarantee as to the amount or availability of the metals to be provided to Contractor under the Agreement. In the event MIRA should cease its metals recovery operations at the Facility, MIRA retains the right to terminate the Agreement.
Performance Security:	$300,000

Metals Recovery and Marketing Services
CSWS South Meadows Resource Recovery Facility

Executive Summary

The municipal solid waste ("MSW") processing performed at the South Meadows Resource Recovery Facility (the "Facility") is comprised of several steps, including the magnetic separation of ferrous metals from the MSW delivered to the Facility. MIRA has a contract with wTe Recycling, Inc. ("Contractor"), for the transportation, processing and marketing of the ferrous metals removed from the waste stream along with much smaller volumes of post-combustion metal and maintenance metals recovered at the Facility.

MIRA's current Agreement for the metal services will terminate June 30, 2017 unless MIRA exercises its option under the Agreement to extend the Agreement for one (1) extension period commencing July 1, 2017 and terminating June 30, 2018. In early November 2016, Contractor contacted MIRA and asked if MIRA would consider foregoing the one year extension period and instead enter into a new, long-term agreement which would commence on July 1, 2017 and terminate on June 30, 2024.

Contractor's request for a new, long-term agreement stemmed from a notice of violation ("NOV") issued to Contractor in July 2016 by the U.S. Environmental Protection Agency ("EPA"). The NOV was associated with high levels of Volatile Organic Compounds (VOCs) that were detected when processing pre-combustion MSW ferrous metals. If Contractor wishes to continue to process the MSW pre-combustion ferrous metals it is likely that Contractor will be required by the EPA to install expensive environmental controls that will destroy the VOCs.

MIRA is Contractor's largest supplier of pre-combustion MSW ferrous metals. A long-term contract with MIRA will provide Contractor and its Board of Directors the financial assurance needed to underwrite the costs associated with the installation of the technology needed to treat the VOCs. In exchange for the long-term contract, Contractor is willing to enter into the contract under the same terms and conditions as contained in the current contract.

Based upon MIRA's conversations with Contractor, MIRA's review of the emission testing data provided by Contractor to MIRA for review, and Contractor's special capability (as discussed in more detail below), MIRA management believes that the execution of a long-term contract is in the best interests of both MIRA and Contractor.

Discussion

Pre-Combustion Ferrous Metal Recovery

Approximately 35% of the weight of the ferrous metals removed from the MSW processed at the Waste Processing Facility ("WPF") is entrained MSW. Because of the amount of MSW mixed in with the pre-combustion metal, Connecticut and the neighboring states of New York, New Jersey, Massachusetts and Rhode Island, require that scrap metal recycling companies who wish to handle such "contaminated" metals must first obtain a solid waste permit (essentially the same permit required for any entity wishing to operate a MSW transfer station).

Contractor Special Capability Under Section 3.1.2.5 of MIRA's Procurement Policies and Procedures.

Contractor has been performing metals transportation and marketing services for the Facility since May of 1990 with only one interruption: for the period January 1, 1994 through January 31, 1996, when MIRA contracted with a different company for the services. The alternative company subsequently went bankrupt and Contractor stepped in on February 1, 1996 to complete the term of the agreement (through December 31, 1996).

During the period of January 1, 1996 through August 31, 1999 Contractor continued to perform the services under a series of letter agreements with each letter agreement having a term of approximately one-year.

In June, 1999 MIRA issued a competitive bid for the services for a term of one (1) year. Contractor was the sole bidder. MIRA rebid for the services in 2001 for a term of July 1, 2001 through June 30, 2003. Contractor was again the sole bidder. MIRA rebid the services in 2003 for a term of three (3) years (July 1, 2003 through June 30, 2007) and Contractor was again the sole bidder. The most recent competitive bid for these services was issued in 2007 for a three year term (July 1, 2007 through June 30, 2010 with the option to extend for two one-year extension periods). While MIRA did receive one other bid, the share of the revenue realized from the sale of the recovered metals offered to MIRA from the other bidder was significantly less than the revenue share offered by Contractor and the bidder did not have in place the appropriate solid waste permit to handle the material.

Prior to issuing procurement documents for a new contract to take effect July 1, 2010, MIRA management contacted solid waste regulatory officials in Connecticut and four surrounding states (RI, MA, NY, and NJ) to inquire if there were other scrap metal dealers that had obtained the regulatory authority to accept and process ferrous metals contaminated with 35% or more MSW. MIRA staff spoke with two individuals at the NYDEC, two individuals at the MADEP, one individual at that NJDEP, one individual at the RIDEM, and one individual at the CTDEEP. Except for the MADEP confirming that Contractor's facility had the applicable authority/permit, none of these individuals were aware of any permitted scrap metal recycling facilities in their respective states that were authorized to accept scrap metal contaminated MSW. Having confirmed that no other firms were properly permitted to process the metals generated at the Facility, MIRA's management recommended and the Board of Directors approved an agreement with a base two-year

term of July 1, 2010 through June 30, 2012 with one extension period. MIRA subsequently exercised its option to extend the agreement for the one-year extension period commencing July 1, 2012 and terminating June 30, 2013.

Before issuing a procurement package in 2013 for a new contract, MIRA again canvased environmental agency authorities in Connecticut and the surrounding states to determine if market conditions have changed, i.e. other firms have been issued the necessary permits to handle the MSW metals. Based on MIRA's conversations with environmental agency representatives in CT, MA, NJ, NY and RI, no such solid waste permits have been issued to any scrap metal dealers other than Contractor.

Again, in December 2016 and January 2017 MIRA staff contacted environmental agency representatives in surrounding states to determine if other companies that operate scrap metal recovery facilities have been issued the necessary permits to accept and process MIRA's pre-burn ferrous metal stream. Based on conversations with environmental regulatory agency representatives in MA, RI, NY and NJ, no such solid waste permits have been issued to any scrap metal dealers other than MIRA's current vendor.

Recommendation

Taking into consideration:

- the regulatory requirement that companies processing pre-combustion MSW metals must have a solid waste permit;
- the results of MIRA's inquiries to the solid waste permitting authorities in CT and surrounding states verifying that there are no other metal recycling companies with such solid waste permits; and
- the environmental compliance circumstances underlying Contractor's request for a long-term agreement.

MIRA management recommends that the Board of Directors authorize the President to enter into a long-term contract with Contractor to manage pre-and post-combustion ferrous metals, and maintenance metal for a term commencing July 1, 2017 and ending June 30, 2024 under the same terms and conditions of the current agreement on the basis of the firm's special capability as provided for under section 3.1.2.5 of MIRA's Procurement Policies and Procedures.

Financial Summary

MIRA recovers approximately 19,000 tons of pre-combustion ferrous metals, 700 tons of post-combustion ferrous metals, and 800 tons of maintenance metals each year. The revenues from these wastes were approximately $660,000 in FY 2016.

TAB 4

MATERIALS INNOVATION AND RECYCLING AUTHORITY

1

EXHIBIT A

CSWS DIVISION
FY 2018 DRAFT OPERATING AND CAPITAL BUDGET

JANUARY 26, 2017
MIRA BOARD OF DIRECTORS

Summary Proposed Budget

2

- Total Operating Revenues - $60.9 Million
- Total Operating Expenses - $56.7 Million
- Operating Income Before Reserve Contributions - $ 4.2 Million
- Proposed Reserve Contributions
  - CSWS General Fund: $0.0 Million
  - CSWS Improvement Fund - $15.7 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 $ (1.5 Million)
- $4.00 Per Ton Increase From FY 2017 Tip Fee
- Will Exceed Opt Out Tip Fee Provisions of MSAs

Summary Proposed Budget

- Cost of Operation - $72,385,045
  - Operating Expense Budget - $56,699,378 ($1,616,011 2.8% Reduction)
  - Reserve Contributions - $15,685,667 ($5,364,962, 52.0% Increase)
  - Net Increase - $3,748,951 / 5.5%
- Non Disposal Fee Revenue - $35,236,487
  - $3,666,386, 9.4% Decrease
  - Includes $35,340 Member Service Fees (Tier 2 @ $2.00 & Tier 4 @ $1.00 / Ton)
- Net Cost of Operation - $37,148,558
  - $7,415,337 / 24.9% Increase from FY 2017
- Add: Cost of Service Discounts - $ 416,640
  - Tier 1 Long – 204,600 Tons @ $2.00 / Ton; and
  - Tier 3 – 3,720 Tons @ $2.00 / Ton
- Deduct: Deficit Funding - $ (11,525,198)
  - Tip Fee Stabilization of $9,969,265
  - Property Division General Fund of $1,555,933
- Note: Equivalent Subsidy of Uniform Base Disposal Fee - $ (30.98 / 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"

Summary Proposed Budget

- Total Rate Base - $26,040,000
  - Net Cost of Operation + Cost of Service Discounts - Deficit Funding
- Aggregate Tons - 372,000
  - 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
- 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**	**$62.83**	**$65.18**
Tier 1 Short	**$70.00**	**$64.86**	**$67.20**
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

- **Transfer Stations -** $ 1,693,100
  0.8% Decrease from FY 2017
  - Ellington - $ 14,300
  - Essex - $ 565,100
  - Torrington - $ 548,350
  - Watertown - $ 565,350
  - Total - $1,693,100

- **Waste Transportation -** $13,108,212
  3.4% Decrease from FY 2017
  - MSW From Essex - $ 768,082
  - MSW From Torrington - $ 551,520
  - MSW From Watertown – $ 1,399,560
  - MSW From RRDD#1 - $ 18,430
  - MSW From Ellington - $ 42,000
  - Solid Waste Bypass - $ 26,400
  - Ash Disposal - $ 10,286,352
  - Non-Processible - $ 15,868
  - Total - $ 13,108,212

- **Trash to Energy Facility -** $32,687,644
  2.5% Decrease from FY 2017
  - Waste Processing - $11,037,801 ($181,370 / 1.6% Reduction)
  - Power Block - $20,408,814 ($653,711 / 3.1% Reduction)
  - Facility Contractor - $ 1,241,029 ($8,029 / 0.7% Increase)
  - Total - $32,687,644 (827,052 / 2.5% Reduction)

Operating Expense Budget

6

- **Recycling Facility -** $667,750
  13.0% Increase from FY 2017

Transport From Essex -	$ 170,150
Transport From Torrington -	$ 180,225
Transport From Watertown –	$ 118,125
Direct O&M Expenses -	$ 199,250
Recycling Rebate –	$ 0
Total	$ 667,750

- **Indirect Expense-** $8,542,672
  4.4% Reduction from FY 2017

Authority Budget Allocation–	$2,826,270
MIRA Direct Personnel–	$1,804,003
MIRA Direct Non Personnel -	$1,300,925
Assessment, Fees and Taxes –	$2,611,474
Murphy Road Ops Center -	$ 0
Total	$8,542,672

- **Total Operating Expense Budget -** $56,699,378

Recommended Reserve Contributions

- Operating Income Before Reserve Contributions - $ 4,160,469
- CSWS General Fund Retained: $ 0
  - CSWS Improvement Fund - $15,685,667
    Represents Strategic Plan Update required funding reduced for Unit 11 air heaters undertaken in FY 2016.
  - CSWS Risk Fund - $ 0
    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.
  - CSWS Legal Fund - $ 0
    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.
  - MIRA Severance Fund - $ 0
    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 2017.
  - CSWS Tip Fee Stabilization Fund - $ (9,969,265)
    Draw expected based on draft budget parameters.
    Consistent with Strategic Plan Update projection.
  - Property Division General Fund Transfer - $ (1,555,933)
    There is presently in excess of $2 million in this fund.
    Consistent with Strategic Plan Update projection.

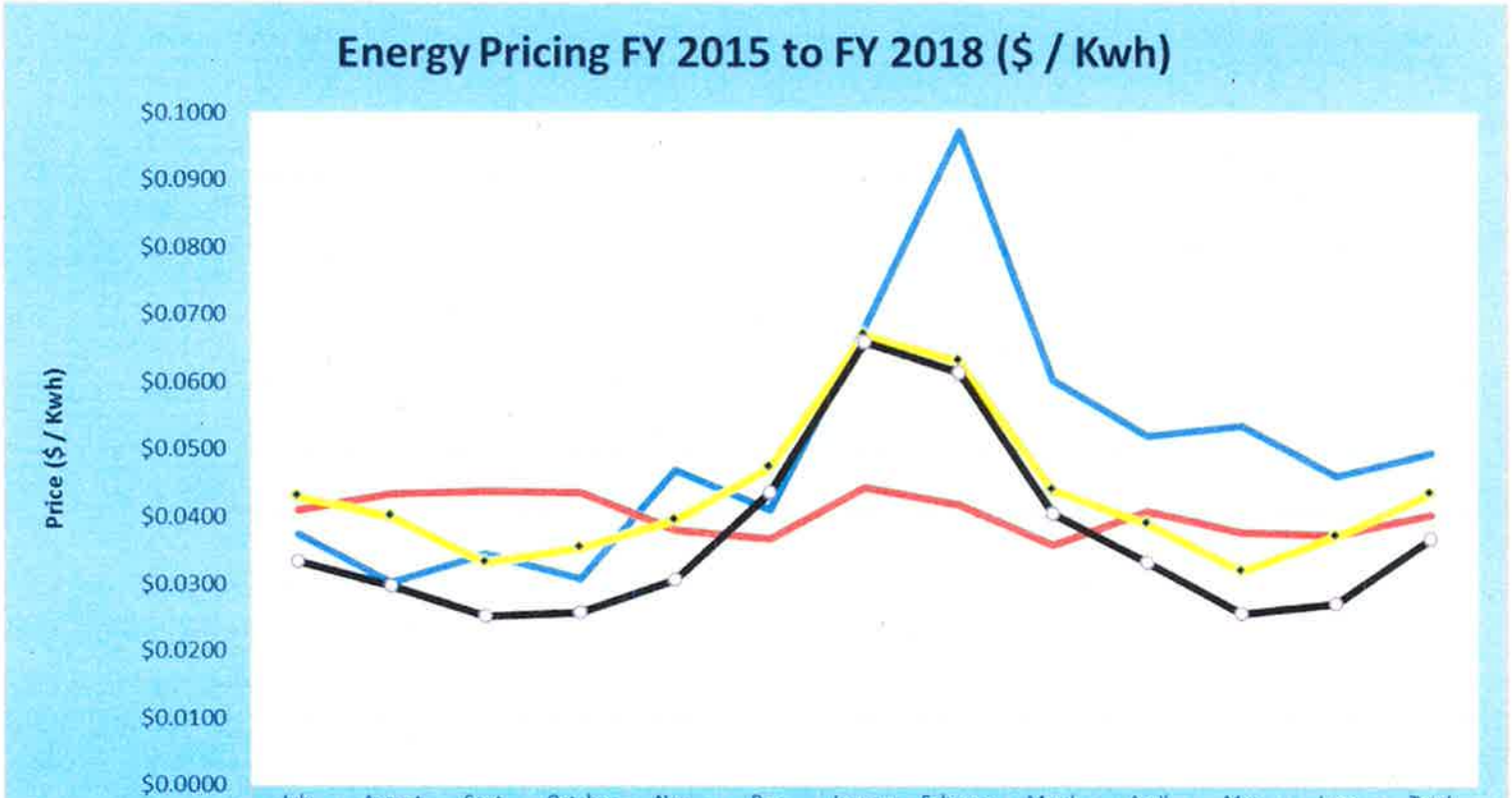
Non Disposal Fee Revenue

- **Energy Sales -** — $17,241,423
  $1,714,977 / 9.0% Decrease
  - Capacity Payments & RECs – $ 4,468,353
  - Real Time Market – $12,773,070
  - Contract Sales - $ 0
  - Total - $17,241,423
- **Other Recovered Products -** — $1,671,401
  $728,426 / 30.4% Decrease
  - Inbound CSWS Base @ $8.50 / Ton – $ 441,090
  - Inbound FCR Base @ $7.50 / Ton – $ 75,000
  - Revenue Share (Container Sales) - $ 44,386
  - Revenue Share (Paper Sales) - $ 153,255
  - FCR Residue Disposal / Other - $ 295,120
  - Recycling Sub-total $1,008,851
  - Municipal Bulky & Mattresses – $ 109,000
  - Metal Sales – $ 553,550
  - Total Other Recovered Products- $1,671,401
- **Non Participating Town Waste -** — $16,245,000
  $1,221,400 / 7.0% Decrease
  - Hauler Contracts- $11,620,000
  - Other Contracts - $ 4,018,000
  - Spot Waste - $ 607,000
  - Total - $16,245,000
- **Other (Interest / Service Fees)** — $ 78,663
  $1,582 / 2.0% Decrease
- **Total Non Disposal Fee Revenue -** — $35,236,487

Waste to Energy Key Drivers

- Total MSW Deliveries - 650,440
  - "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)
- Total MSW to RDF Production Rate - 98.4%
- Total RDF - 640,000
- RDF to KWH Production Rate - 542.2 kwh / ton
- Energy Production - 347,000,000 kwh
  - 38 million Kwh (9.9%) Reduction
  - Boiler availability reduced from 86% to 80.25%
- Contract / Non Contract Energy Price - $.03681 / kwh
  - Reduced 15.3% from FY 2017 Rate of $.04344 / Kwh
- RDF to Ash Production Rate - 26.35%
  - Increased from 25.1% in FY 2017
- Ash to Disposal - 168,629 tons
  - Reduced by 9,371 tons (5.3%)
- Ash Disposal Cost Per Ton - $61.00
  - Increased by $2.71 per ton from FY 2017 rate of $58.29

Waste to Energy Key Drivers



	July	August	Sept.	October	Nov.	Dec.	January	February	March	April	May	June	Total
FY 2015 Actual	$0.0375	$0.0302	$0.0346	$0.0307	$0.0471	$0.0411	$0.0681	$0.0973	$0.0602	$0.0521	$0.0536	$0.0461	$0.0494
FY 2016 Actual	$0.0411	$0.0435	$0.0439	$0.0436	$0.0381	$0.0368	$0.0444	$0.0418	$0.0359	$0.0409	$0.0378	$0.0373	$0.0403
FY 2017 Budget	$0.0432	$0.0401	$0.0331	$0.0354	$0.0396	$0.0473	$0.0671	$0.0631	$0.0441	$0.0390	$0.0320	$0.0371	$0.0434
FY 2018 Budget	$0.0333	$0.0297	$0.0251	$0.0258	$0.0305	$0.0437	$0.0658	$0.0614	$0.0405	$0.0331	$0.0256	$0.0271	$0.0368

Other Recovered Products Key Drivers

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
Total	62,000	$8.32	$516,090

Recycling Facility Exports	Tons	Rate	Revenue
CSWS Containers	14,335	$ 3.00	$ 43,004
CSWS Paper (ONP)	22,280	$ 0	$ 0
CSWS Paper (OCC)	9,051	$16.00	$144,816
CSWS Commercial	107	$30.00	$ 3,210
FCR Containers	2,764	$ 0.50	$ 1,382
FCR Paper (ONP)	4,293	$ 0	$ 0
FCR Paper (OCC)	1,743	$ 3.00	$ 5,229
FCR Paid Residue	4,340	$68.00	$295,120
FCR Unpaid Residue	3,100	$ 0	$ 0
Total	62,000	$ 7.95	$492,761

Other Recovered Products Key Drivers

Metal Sales	Tons	Rate	Revenue
Ferrous Metals	19,500	$ 26.00	$507,000
Scrap and Maintenance Metals	350	$133.00	$ 46,550
Total Metal Sales	19,850	$ 27.89	$553,550

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

Discussion

- Updated Authority Budget
- Improvement fund budget and timing of turbine overhaul
- Assessments, fees and PILOTS
- Treatment of Property Division General Fund transfer
- Waste contract status
- Opt out disposal fee
- Recycling rebate
- Recycling residue
- Metal sales
- Recycling tip fee (for transfer station deliveries by non participating towns)
- Other tip fees (bulky)

MATERIALS INNOVATION AND RECYCLING AUTHORITY

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

January 19, 2017

MIRA - CONNECTICUT SOLID WASTE SYSTEM (CSWS)

ASSUMPTIONS

	DETAILS	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
POWER	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	$ 0.0368
	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
DELIVERIES				
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	11,500
	Ferrous Residue (Inbound)	10,489	10,000	10,500
	Recycling Residue (Inbound)	6,258	5,700	7,440
	Total Tons Delivered	656,902	718,000	650,440
Mattresses/Box Spring	Mattress/Box Spring (number of unit)	502	1,000	800
FACILITY OPERATIONS				
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	$ 26.00
	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	$ 133.00
	Scrap Metal/Maintenance Metal Revenue (Outbound)	735	350	350
MUNICIPAL PAYMENTS				
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	$ 60.00
Hauled Tons	Essex MSW	58,100	59,000	58,100
	Essex Recyclables	8,541	8,500	8,300
	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
	RRDD#1 per load MSW	170	185	170
MSW Byproduct Tons	Ash to Other	169,006	178,000	168,629
	Non-processible Waste to Other	151	750	150
Diverted MSW Tons	South Central Facility	-	-	-
	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	$ -	$ -	$ -
Delivery/Processing	CSWS Acceptable Commercial Recyclables (tons)	131	76	107
	CSWS Acceptable Residential Recyclables (tons)	56,603	49,924	51,893
	Contractor Acceptable Commercial Recyclables (tons)	1,384	Incl Below	-
	Contractor Acceptable Residential Recyclables (tons)	13,600	10,000	10,000
	Total Recyclable Materials	71,718	60,000	62,000
Percentage of Inbound Tons	Recycling Residue	8.73%	9.50%	12.00%
	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 (MIRATons)	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%	
Outbound Tons	Recycling Residue Total	6,258	5,700	7,440
	Recycling Residue Chargeable	3,389	2,700	4,340
	CSWS Paper Per Ton Sales Revenue - ONP	25,677	21,563	22,280
	CSWS Paper Per Ton Sales Revenue - OCC	10,432	8,455	9,051
	CSWS Container Per Ton Sales Revenue	16,524	13,173	14,335
	CSWS Commercial Tons	131	76	-
	FCR Paper Per Ton Sales Revenue-ONP	6,191	5,028	4,293
	FCR Paper Per Ton Sales Revenue-OCC	2,514	1,955	1,743
	FCR Container Per Ton Sales Revenue	3,986	3,046	2,764
	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	$ -	$ -	$ -
	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	$ 30.00
	FCR Paper Per Ton Sales Revenue-ONP	$ -	$ -	$ -
	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

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	$ 607,000
49-001-000-40111	Member Service Fee	$ 35,930	$ 40,000	$ 35,340
49-001-000-40112	Other Operating Charges	$ (4,850)	$ -	$ -
49-001-000-49104	Metal Sales	$ 657,141	$ 1,135,000	$ 553,550
49-001-000-49106	Municipal Bulky Waste & Mattresses/Box Spring	$ 125,471	$ 285,000	$ 109,000
49-001-000-42101	Recycling Facility	$ 1,063,073	$ 979,828	$ 1,008,851
49-001-000-xxxxx	Electricity	$ 15,856,650	$ 18,956,400	$ 17,241,423
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**	**$ 60,859,847**

EXPENDITURES

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
49-001-501-57871	Administrative Expenses	$ 2,966,386	$ 3,160,621	$ 2,826,270
49-001-501-xxxxx	Operational Expenses	$ 2,018,003	$ 2,932,035	$ 3,104,928
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	$ 13,108,212
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	$ 667,750
	TOTAL OPERATING EXPENDITURES	**$ 53,107,227**	**$ 58,315,389**	**$ 56,699,380**
	NET INCOME / (LOSS)	**$ 3,803,752**	**$ 5,155,484**	**$ 4,160,467**

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	$ 15,685,667
49-001-000-47216	CSWS Tip Fee Stabilization Fund	$ (5,249,688)	$ (5,165,221)	$ (11,525,200)
	TOTAL DISBURSEMENT OF CSWS NET INCOME	**$ 3,803,752**	**$ 5,155,484**	**$ 4,160,467**
	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

(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**	**$ 2,826,270**
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	$ 15,000
49-001-501-52602	Bad Debt Expense	$ (178,749)	$ 500	$ -
49-001-501-52856	Legal	$ (21,844)	$ 100,000	$ 150,000
49-001-501-52640	WPF and PBF Insurance Premium	$ 851,304	$ 932,560	$ 960,696
49-001-501-52875	Insurance Broker	$ 50,788	$ 48,000	$ 58,179
	Subtotal Asset Protection & Statutory Compliance	**$ 720,125**	**$ 1,099,160**	**$ 1,190,875**
	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	$ 7,500
49-001-501-52202	Office Supplies	$ 1,949	$ 1,500	$ 1,500
49-001-501-52211	Protect Clothing/Safety Equipment	$ 2,148	$ 6,800	$ 6,750
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	$ 16,000
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	$ 40,000
	Subtotal Other Operating	**$ 83,742**	**$ 100,579**	**$ 92,800**
	TOTAL OPERATIONAL EXPENSES	**$ 2,018,003**	**$ 2,932,035**	**$ 3,104,928**

MIRA - CONNECTICUT SOLID WASTE SYSTEM DIVISION (CSWS)

EXPENDITURE DETAILS

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
ASSESSMENT, FEES, SUBSIDIES, & PILOTS				
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**
WASTE TRANSPORT				
49-001-505-52701	Contract Operating Charges (excludes recycling transportation)	$ 2,734,935	$ 3,054,660	$ 2,779,592
49-001-505-52710	Disposal Fees - Solid Waste Bypass	$ 319,183	$ 58,000	$ 26,400
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**	**$ 13,108,212**
MIRA FACILITIES OPERATING EXPENSES				
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
NAES CONTRACT OPERATING CHARGES				
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**
NAES ON-SITE INCENTIVE COMPENSATION				
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**
NAES MANAGEMENT FEES & CHARGES				
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**
MURPHY ROAD OPERATIONS CENTER				
49-001-501-59105	CSWS Share of Murphy Rd Operations Center	$ 88,286	$ 127,300	$ -
	Subtotal Murphy Rd Operations Center	**$ 88,286**	**$ 127,300**	**$ -**
TRANSFER STATION - ELLINGTON (c)				
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) The Ellington TS closed in January 2013.

MIRA - CONNECTICUT SOLID WASTE SYSTEM DIVISION (CSWS)

EXPENDITURE DETAILS

ACCOUNT	DESCRIPTION	ACTUAL FY16	ADOPTED FY17	PROPOSED FY18
TRANSFER STATION - ESSEX				
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**
TRANSFER STATION - TORRINGTON				
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**
TRANSFER STATION - WATERTOWN				
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	$ 1,008,851
	EXPENDITURES			
49-001-506-52404	Building Operations	$ 471	(d)	$ 66,000
49-001-506-52407	Project Equipment Maintenance	$ 14,318	$ 25,500	$ 18,000
49-001-506-52415	Grounds Maintenance	$ -	$ -	$ 35,000
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	$ -	$ -	$ 18,500
	Total Expenditures	**$ 498,329**	**$ 591,215**	**$ 667,750**

(d) Transferred to the Property Division in FY16.