A regular meeting of the Energy From Waste – Waste Management Advisory Committee was held on Tuesday, June 5, 2012, in the Lower Level Boardroom (LL-C), Regional Headquarters Building, 605 Rossland Road East, Whitby, Ontario, at 7:01 p.m.

Voting Members
Present: M. Clayton, Chair, Whitby
T. Baker, Vice-Chair, Pickering
N. Burnett, Ajax
K. Coupland, Clarington
E. Fernando, Oshawa
M. Speelman Viney, Clarington
M. Whidden, Clarington
S. Wouters, Clarington

Absent: A. Porteous, Scugog

Non-Voting Members
Present: D. Fumerton, District Manager, Durham York District Office, Ministry of the Environment
D. Gordon, Manager, Waste Management Program Planning and Policy, York Region
K. Gorman, Director, Environmental Health, Health Department, Durham Region
M. Januszkiewicz, Director of Waste Management, Works Department, Durham Region
F. Langmaid, Manager of Special Projects, Planning Department, Clarington
Councillor Neal, Local Councillor, Clarington attended the meeting at 7:04 p.m.
Councillor Novak, Regional Councillor, Clarington attended the meeting at 7:14 p.m.
S. Thomas, District Supervisor, Durham York District Office, Ministry of the Environment

Also Regional Chair Anderson
Present: M. Kopansky, Manager, Miller Compost

Staff
G. Anello, Manager of Waste Planning & Technical Services, Works Department, Durham Region
C. Bartlett, Manager, Waste Operations, Works Department, Durham Region
1. **ADOPTION OF MINUTES**

MOVED by N. Burnett, "THAT the minutes of the Energy from Waste – Waste Management Advisory Committee meeting held on March 28, 2012 be adopted."

CARRIED

7. **OTHER BUSINESS**

a) **AWARD OF THE ERIC KRAUSE INNOVATIVE PLANS/POLICIES/INITIATIVES AWARD FROM THE DURHAM ENVIRONMENTAL ADVISORY COMMITTEE TO WASTE MANAGEMENT STAFF AT THE REGION OF DURHAM**

Chair Clayton announced that the Waste Management division of the Works Department was recently presented with the Eric Krause Innovative Plans/Policies/Initiatives Award from the Durham Environmental Advisory Committee. She stated the award is given for forward-thinking efforts to encourage positive change with respect to the natural environment. The award was presented to the Waste Management division for the successful development and implementation of a Sign Recycling Program which resulted in the diversion of 6.28 tonnes of municipal election signs from landfill. On behalf of the Committee, Chair Clayton congratulated M. Januszkiewicz and staff for this achievement.

2. **DECLARATIONS OF INTEREST**

There were no declarations of interest.

3. **PRESENTATIONS**

a) **PRESENTATION BY GIOSEPH ANELLO, MANAGER, WASTE PLANNING AND TECHNICAL SERVICES, REGION OF DURHAM, ON THE 2011 WASTE MANAGEMENT SERVICES ANNUAL REPORT**

G. Anello, Manager, Waste Planning and Technical Services, gave a brief PowerPoint presentation on the 2011 Waste Management Services Annual
Report. A copy of the presentation was provided as a handout. He stated the organics program (which includes both green bin and leaf/yard waste material) represents 22% (50,609 tonnes) of the total waste managed, and recyclables represent 23% (53,157 tonnes) of the total waste managed. He stated the amount of Waste Electrical and Electronic Equipment (WEEE) materials collected has increased and the WEEE program has been expanded to include multi-residential areas and curbside collection. He noted that the percentage of Household Hazardous Waste (HHW) collected has gone down due to increased opportunity for the public to dispose of hazardous materials at various retailers. He provided a comparison of the amount of various waste materials collected in 2010 and 2011. He also noted that new materials such as shingles, porcelain and plastic signs have been added to the program. G. Anello further stated that curbside recycling/composting represents a diversion rate of 56% (111,539 tonnes). He added that future efforts will be targeted to increase the diversion rate at the Waste Management Facilities which currently stands at 33%. He also provided an overview of the Region's diversion efforts and stated that steps will be taken to bring diversion numbers up by increasing the number of special events, the introduction of eco-stations, return to vendor programs, and removing more organics from the waste stream.

Staff responded to questions from the Committee with respect to reductions in the amount of newsprint being collected in the blue boxes; and, reductions in the total waste per household.

b) PRESENTATION BY MIKE KOPANSKY, MANAGER, MILLER COMPOST, ON COMPOSTING

M. Kopansky, Manager, Miller Compost, gave a PowerPoint presentation on composting. A copy of the presentation was provided as a handout. Mr. Kopansky provided an overview of Durham's Green Bin program. He explained the benefits to both the environment and the economy through composting. He also provided an overview of Durham's source separated organics program.

Mr. Kopansky stated that the technology employed by Miller for Durham Region's green bin program is a combination of in-vessel composting followed by outdoor windrow composting. He explained that compost is the decomposition of yard waste and food waste utilizing aerobic bacteria. He outlined the benefits of this method which includes killing weed seed and pathogenic bacteria contained in the compost, and acting as a soil amendment.

Mr. Kopansky provided an illustration of the Pickering Ebara In-Vessel Aerobic Composting facility where Durham's source separated organics and leaf and yard waste materials are processed. He stated that process control is very important and maintaining a high heat temperature during the processing helps to kill weed seeds, pathogens and moisture. He also noted
that because the processing is done in-vessel, they can control leachate collection and odour.

Mr. Kopansky discussed the in-vessel features such as pre-processing, the sorting line, vessel loading, and paddle-turning. He stated that sorters watch the material on a line and remove any obvious contaminants. At the vessel loading area organics are blended with leaf and yard-waste materials which are then turned by large paddles. This turning opens up the surface area and allows the material to break down quicker. He also provided an illustration of the computer control system that is used to monitor the process and ensure pathogen kill within the vessel.

M. Kopansky stated that the material from the Pickering facility is then hauled to the Clarington Outdoor Windrow processing site. He added that the outdoor windrow facility requires a Certificate of Approval from the Ministry of the Environment. He stated that outdoor windrows are not used for organic material due to odour, but it is a cost effective way to handle leaf and yard waste material. The organic material is blended with the leaf and yard waste material to create a high quality compost material. He provided an overview of the process involved with windrow composting. He explained that a large tractor-like machine straddles the windrow and an internal drum turns the whole windrow inside and out very fast. The turning, along with maintaining the windrow at the correct temperature, ensures that any pathogens and weed seeds are killed. The temperature in the windrows is between 55°C – 60°C and all natural microbes break down the material. He stated that any plastics are separated from the material through air suction systems. He noted that with this process there is over 98% diversion from landfill.

M. Kopansky explained that there was a time when large numbers of bags containing organic material could not be collected because residents were not using the correct compost bags. Miller Compost and Regional staff and politicians worked together to better educate the public which significantly reduced these numbers and improved the quality of the feedstock. He stated that the next challenge is for Miller Compost and Regional staff to continue to work with residents to stop the contamination of materials because they are including materials in the green bin that cannot be collected.

M. Kopansky stated that Miller’s plan is to produce high quality compost which starts with clean feedstock. He stated their compost is tested for parameters that are much more stringent than the MOE requires and noted that Miller is a founding member of the Canadian Composting Council’s Compost Quality Assurance (CQA) program.

M. Kopansky stated that compost improves soil quality. He provided an example of how the compost is used along highways for slope stabilization and to help control soil erosion. He stated that other benefits of healthy soil includes resistance to drought, aids in the establishment of new lawns, improved soil health, and requiring less fertilizer which leads to cleaner
M. Kopansky discussed the future of organics diversion. He stated that Miller's next step is to add technology that compliments their existing program. He stated they are looking at anaerobic digestion (AD) as a way to handle wet sloppy materials (ie. from apartment buildings, festivals, restaurants) and to remove contaminants effectively. He noted that AD also uses naturally occurring microbes to breakdown the material. Biogas is created which can be cleaned up and used to fuel their own collection trucks and injected into the gas grid or burned to create green energy and electricity. He stated that digestate is another product that comes from AD which can be registered as a low odour, pathogen free fertilizer and applied to agricultural lands in a similar manner as manure. M. Kopansky also provided a comparison of the GHG emissions from AD, compost and landfill and noted that AD results in a significant reduction of GHG emissions.

M. Kopansky stated that Miller staff participates in an annual Pumpkin Growing Contest using only compost material. He showed some pictures of the winners and stated that some pumpkins grow as large as 195 lbs. He challenged Durham Region staff to participate in the annual pumpkin growing contest. He added that as an incentive, Miller will donate compost to a community event of the winner's choice.

M. Kopansky responded to questions from the Committee with respect to the collection of grass clippings; if there are issues with dust at the outdoor windrow site; if the compost is marketed for retail; the mitigation of odours at the outdoor windrow site; how the bones from meat products are processed; and if the Pickering facility produces greenhouse gas.

c) PRESENTATION BY CRAIG BARTLETT, MANAGER, WASTE OPERATIONS, REGION OF DURHAM, ON THE GREEN BIN PROGRAM

C. Bartlett, Manager, Waste Management Operations, gave a brief presentation on the green bin program. He stated that Durham Region's green bin program is one of the best in the world because of the technology used and the engagement of the public. He acknowledged the hard work done by M. Kopansky and Miller Compost to make the compost program so successful. He noted that the key to a successful compost program is to provide the proper waste management tools. Samples of the small kitchen catcher organic paper bags and paper yard waste bags were provided to Committee members from Miller Compost. C. Bartlett noted that the introduction of paper bags to the compost programs has significantly improved the quality of compost being produced in Ontario and has helped to reduce the odours at the facilities. A Blue Spruce seedling and compost
material was also provided to Committee members. C. Bartlett explained that the compost can be used as a soil conditioner when planting the seedling and he requested the Committee's feedback on the sample materials.

C. Bartlett stated that Durham offers a weekly green bin collection program and one of the key components is the interaction with residents. He stated that staff works with their contractor to identify residents who are having trouble complying so steps can be taken to talk with the residents to ensure the proper materials are put out to the curb for collection.

C. Bartlett responded to questions from the Committee with respect to where the small paper kitchen catcher bags can be purchased; and, the collection of waste from restaurants.

d) PRESENTATION BY JASON CUREATZ, BY-LAW COMPLIANCE OFFICER, REGION OF DURHAM, ON WASTE MANAGEMENT BY-LAW 46-2011

J. Cureatz, By-Law Compliance Officer, gave a PowerPoint presentation on Waste Management By-Law #46-2011. A copy of the presentation was provided as a handout. J. Cureatz stated the Waste Management By-law consolidates all Durham Region waste management programs under one single regulation and integrates all eight municipalities; defines the Region's waste management programs and acceptable wastes; sets out service level standards for the management of solid waste; outlines the operation and procedures of Regional waste management facilities; sets limits for the number of garbage bags and/or containers that can be set out for collection; outlines the Region's roles and responsibilities for waste collection; outlines the roles and responsibilities of the collection contractors working under contract for the Region of Durham; outlines the role and responsibilities of Durham Region residents for waste collection; and, identifies special service provisions for waste collection for families with small children and families with special needs.

J. Cureatz provided an overview of the areas of waste management that fall under the Region's jurisdiction. He stated there are two By-law Compliance Officers who are responsible for the entire Durham Region. He further stated that a copy of the By-law can be obtained from the Region's web-site at www.durham.ca/waste. He explained that the waste management by-law will formalize the Region’s diversion programs and initiatives, make participation by the residents mandatory, and will aid in the Region's goal of diverting 70% of waste through reuse, recycling and composting.

J. Cureatz provided an overview of the duties of the By-law Compliance Officers which includes investigating complaints regarding all aspects of the Region's Waste Management By-law; conducting routine compliance checks; resolving service issues promptly and effectively; and, monitoring collection vehicles. He stated they are also authorized to prepare legal documents,
issue work orders, lay charges and attend court as required. They also promote and increase community awareness and participation.

J. Cureatz stated that enforcement of the Waste Management By-law will focus on educating the community to gain compliance. Communication tools include the Durham Regional website, information cards, personal one-on-one communication, "friendly reminder" door hangers and stickers, a work order, and, as a last resort, a ticket. J. Cureatz provided an overview of how each of the communication tools is used in providing education and direction on waste set-out infractions. He also provided an overview of the set fines and total payable fines. He noted that Regional By-Law Compliance Officers issued 292 notices to residents in 2011.

J. Cureatz stated that a Compliance Policy has been drafted which is a guide for a consistent approach to achieving compliance. He stated that By-Law Officers take a collaborative approach to compliance versus formal legal action. He added that complaints are dealt with according to the level of risk and violation class. He stated that a Communication Strategy was developed with a full program launch in September 2011. He also stated that in November 2011 new software (LAGAN) was acquired to identify geographic problem areas to help target education blitzes in the future.

J. Cureatz stated residents are encouraged to call the Durham Region Waste Management Call Centre or email waste@durham.ca with any waste related problems. He added that it is important to note that the Region of Durham is responsible for just blue bin collection and enforcement within the municipalities of Oshawa and Whitby.

C. Bartlett and J. Cureatz responded to questions from the Committee with respect to how only two Compliance Officers can manage such a large geographic territory; where to report information about dumping of yard waste in a park or other public place; if the focus will change more to enforcement once the incinerator is operating; if waste audits will be done to ensure residents are not throwing things into the garbage that they shouldn't be; how scavenging is enforced; how many tickets have been issued to date; if speaking to residents and issuing notices has led to compliance; and, if the by-law addresses the manner in which blue boxes are set out at the curb (ie. stacking of blue boxes).

e) PRESENTATION BY GIOSEPH ANELLO, MANAGER, WASTE PLANNING AND TECHNICAL SERVICES, REGION OF DURHAM, ON DURHAM/YORK ENERGY FROM WASTE PROJECT UPDATE

G. Anello, Manager, Waste Planning and Technical Services, Region of Durham provided an update on the Durham/York Energy from Waste Project. A copy of the PowerPoint presentation was provided as a handout. He displayed a chart illustrating the Durham/York EFW Project Timelines and stated that the Notice to Proceed was issued in November 2011. He noted
that the EFW facility is to be completed by mid-December 2014 but operational start up has been set for August 2014.

G. Anello provided an overview of the construction plan and stated that Covanta is currently in the construction stage and continuing with design and fabrication. He stated that Milestone #3, which is site preparation, should be completed by the middle to end of June 2012. He noted that this milestone represents a 20% payment. He displayed pictures of the construction taking place at the site.

G. Anello also illustrated the monitoring plans that are required for submission to the Ministry of the Environment. He noted that staff is currently working on the Community Communications Plan which is required to be submitted prior to the initial receipt of waste. He stated that this should be out in draft form by July 2012.

G. Anello stated that an EFW Budget Update report was provided to Joint Committee and noted that the EFW project remains within the approved budget. He stated the approved budget for Durham Region is $214.73 million. He also noted there have been some changes in the budget due to HST; escalation charges; and, the construction of a new pipeline to deliver natural gas to the site.

G. Anello responded to questions with respect to the total budget for the facility; the cost for the construction of the new natural gas pipe line; a breakdown of the HST costs and cost escalations due to the delay of the project; the reason for the new natural gas pipe line; and, if soil monitoring will be done at the site.

Discussion ensued on the possibility of having more in-depth information on the monitoring plans required for the EFW facility that are required for submission to the MOE. The Chair suggested that staff provide a presentation at the next meeting on the landscaping plans for the facility that takes into consideration the issues raised by L. Racansky and P. Callus during their delegation at the March 28, 2012 meeting, and as outlined in their correspondence dated May 28, 2012.

The Committee recessed at 8:30 p.m. and reconvened at 8:38 p.m.

4. DELEGATIONS

a) MR. DOUG ANDERSON, WHITBY RESIDENT, REGARDING DECLINING WASTE VOLUMES AND THE IMPLICATIONS

Mr. Doug Anderson gave a PowerPoint presentation on declining waste volumes and the implications this may have on the minimum tonnage of waste required to be supplied to the incinerator. He stated that the Region has reached a 53% waste diversion rate which is lower than what was
projected in the Business Case presented by Deloitte in 2008, which projected that the diversion rate should be at 60%. He also noted that a report done by Golder & Associates in 2009 mapped out how Durham could reach 63.7% diversion by the end of last year. Mr. Anderson stated that the public was assured that incineration would be a driver of recycling and that it would not cut into the recycling program, but he feels that it already has. He illustrated on a graph the actual and projected waste volumes from 2005 to 2011. He stated that once the waste per capita is factored in, it can be concluded that people are wasting less, and according to Waste Diversion Ontario (WDO), this is a province-wide trend. He further stated that the contract with Covanta requires the Region to supply a minimum of 110,000 tonnes of residual waste per year and if the total waste drops then recycling has to be curtailed in order to maintain these minimum amounts. He stated that the cost of incineration is more than double the cost of recycling as Durham will be paying an increasing amount every year for the waste that could have been recycled, on top of the carrying costs of building the incinerator. Mr. Anderson stated that the EFW-WMAC is a citizens committee specifically set up to advise on waste matters and asked that the Committee request an explanation of why current diversion rates are behind projections; how Durham Region can achieve 70% diversion by the early 2020s and beyond while still operating an incinerator; and, a full review and update of the Business plan.

Mr. Anderson responded to questions from the Committee.

M. Januszkiewicz responded to questions from the Committee with respect to whether there is a penalty if Durham Region doesn't supply 110,000 tonnes of waste to the incinerator; if the numbers contained in the report from Deloitte and Touche includes numbers for York Region; how the Region will be moving forward to expand and improve on its recycling programs; and, if a standard waste per person figure, spanning several years, was used in the consultant’s report.

MOVED by M. Whidden,

"THAT the Committee receive an update at the September EFW-WMAC meeting that addresses the following points from Mr. Anderson's delegation:

1. Why the current diversion rates are behind projections;
2. How Durham Region can achieve 70% diversion by the early 2020s and beyond while still operating an incinerator; and
3. A full review and update of the Business Plan."

CARRIED

M. Januszkiewicz advised that she is not able to review the business case, nor is it within her jurisdiction to do so. She agreed to provide a report on the first two points contained in the resolution at the September meeting.
5. CORRESPONDENCE

a) DIRECTION AS PER MINUTES OF THE REGIONAL COUNCIL MEETING HELD ON MAY 16, 2012 REGARDING WORKS COMMITTEE REPORT 2012-WR-2: "REVISED ENERGY FROM WASTE – WASTE MANAGEMENT ADVISORY COMMITTEE TERMS OF REFERENCE"

MOVED by M. Speelman Viney,
"THAT the correspondence regarding the revised Energy from Waste – Waste Management Advisory Committee Terms of Reference be received for information."
CARRIED

b) CORRESPONDENCE DATED MAY 28, 2012 FROM LIBBY RACANSKY AND PAM CALLUS, FRIENDS OF THE FAREWELL, WITH REGARD TO THEIR COMMUNITY OUTREACH AND POSSIBLE MITIGATION/MONITORING DELEGATION TO THE EFW-WMAC ON MARCH 28, 2012

The correspondence from Ms. Libby Racansky and Ms. Pam Callus was provided as a handout.

MOVED by M. Speelman Viney,
"THAT the correspondence from Ms. Libby Racansky and Ms. Pam Callus be received for information."
CARRIED

6. REPORTS

There were no EFW – WMAC reports to be considered.

7. OTHER BUSINESS

a) REQUEST FOR A REPORT ON THE CERTIFICATE OF APPROVAL AND THE ENVIRONMENTAL ASSESSMENT DOCUMENTS

M. Speelman Viney asked if staff could prepare a report that provides a comprehensive breakdown of the requirements contained in the Certificate of Approval and the Environmental Assessment documents. M. Januszkwicz advised she will prepare a report for the Committee and provide a presentation at a future meeting.

b) DECLARATIONS OF INTEREST

M. Whidden questioned if staff would be providing follow-up information regarding the questions raised at the March 28, 2012 meeting with respect to conflict of interest. M. Januszkwicz advised that she has discussed this matter with the appropriate staff and the Municipal Conflict of Interest Act only
applies to elected officials and council. She added that because this is an advisory committee the provisions of the Act do not apply to this Committee. With respect to why the Terms of Reference for the EFW-WMAC contains a clause that requires applicants to disclose any potential conflicts, she explained this was in reference to the eligibility for an individual to be selected to sit on the Committee. She stated that there are no membership prohibitions contained in the Terms of Reference for those applicants that disclose a potential conflict of interest; it would only preclude the member from taking part in discussions on, or voting on a matter.

T. Baker responded to questions regarding why he did not make a Declaration of Interest at today's meeting, and why he made a declaration at the March 28, 2012 meeting.

Staff responded to a question with respect to whether the Terms of Reference excluded anyone from membership on the Committee who was doing business with the Region.

c) RECYCLING AT FAST FOOD RESTAURANTS

Councillor Neal questioned if the Region or local area municipalities have jurisdiction over fast food restaurants to encourage or enforce some form of recycling as a lot of materials that are recyclable end up in the garbage and ultimately in the EFW facility. M. Januszkiewicz explained that the EFW is restricted to where it can accept waste from. She noted that there will be some Industrial/Commercial/Institutional (ICI) sector waste delivered to the EFW but only that which is under the Region's control and jurisdiction. With respect to fast food restaurants, she advised that the Region has met with restaurant owners to try to encourage recycling and composting but it is up to each restaurant owner to decide to participate and seek their own provider of this service. M. Januszkiewicz also clarified that private waste management companies cannot take their waste to the EFW facility, only those trucks under contract with Durham Region will be able to enter the facility.

It was questioned if there are any local area municipalities that have passed a by-law which enforces recycling at fast food restaurants. M. Januszkiewicz stated that this has not been done within Durham Region however Halifax, Nova Scotia has a flow control type of waste by-law that makes it mandatory for all ICI and multi-residential buildings to participate in the recycling programs.

d) REQUEST FOR PRESENTATION ON THE ROLE OF THE EFW-WMAC AND THE EFWAC

Chair Clayton requested that because there are two advisory committees for the EFW project, staff prepare a presentation that explains the role of the Energy From Waste – Waste Management Advisory Committee and the role
of the Energy From Waste Advisory Committee including how they differ and how they overlap.

e) REQUEST TO ADD AN "ANNOUNCEMENTS" SECTION TO THE AGENDA

M. Speelman Viney requested that an Announcements section be added to the EFW – WMAC agenda following Declarations of Interest.

8. DATE AND TIME OF NEXT MEETING

The next EFW-WMAC meeting will be held on Wednesday, September 12, 2012, at 7:00 p.m., in the Lower Level Boardroom (LL-C) at Regional Headquarters, 605 Rossland Road East, in the Town of Whitby.

9. ADJOURNMENT

MOVED by K. Coupland,

"THAT the meeting be adjourned."

CARRIED

The meeting adjourned at 9:28 p.m.

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C. Bandel, Committee Clerk   M. Clayton, Chair
Energy From Waste - Waste
Management Advisory Committee