



Ontario Recycler Workshop

June 17, 2010
9:30 a.m. to 3:30 p.m.
(approximate)



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Welcome!

The City of
BARRIE

City of Barrie
Rodney Jackson
Ward 3 Councillor



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Ontario Recycler Workshop


Andy Campbell,
Director, CIF



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Ontario Recycler Workshop



- 10th Ontario Recycler Workshop (ORW)
- Presented by: CIF & partners
 - Waste Diversion Ontario (WDO)
 - Association of Municipalities of Ontario (AMO)
 - City of Toronto (TO)
 - Stewardship Ontario (SO)

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Today's Audience



- * Approximately 100 people in room
- * Expecting ~70 people on webcast
- * Audience members include:
 - municipal councillors, recycling & waste staff & other staff members
 - stewards
 - industry association representatives
 - program representatives, consultants & other stakeholders

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Today's Program & Housekeeping


- Full day session (to ~3:30 p.m.) with program & project updates
- For webcast viewers
 - ① sound slider
 - ② webcast technical assistance
 - ③ "Ask a Question"
 - no response via console
 - check email
 - ④ link to slides & resources

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Today's Agenda

- Session 1—Recycling Perspectives
- Morning break (10:45)
- Session 2—CIF on the Web
 - discussion segment
- BB Training Program Update
- Lunch break (~12:15 to 1 p.m.)
- Session 3—OES Special Guest
- Session 4—CIF Innovation
 - discussion segment
- Afternoon Break (~2:30)
- Session 5—Markets for Plastics
- ORW ends (~3:30)




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Discussion/Question Segments



- Follow 2 theme segments
- Opportunity to discuss presentations & key questions
 - brief plenary session follows each
 - share responses; ask questions




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CIF Thanks Today's Speakers

- Alec Scott, Municipal MIPC
- Carrie Nash, Municipal Waste Association
- Corey Cruikshank, Competitive Edge Information Systems Inc.
- Geoff Love, Love Environment
- Glenda Gies, WDO
- Joe Hruska, CPIA
- John Giles, City of Kingston
- Lyle Clarke, Stewardship Ontario
- Peter Zolotar, CIF & City of London
- Phil Jensen, Genivar
- Randall Roy, City of Sault Ste. Marie
- Rob Cook, OWMA
- Sherry Arcaro, StewardEdge
- Tim Hunt, McDougall Township
- Tova Davidson, MacMillan Marketing Group

Special thanks to
Councillor Rodney Jackson, City of Barrie
& Carol Hochu, Executive Director
Ontario Electronic Stewardship



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CIF Action Plan



Andy Campbell, P.Eng.
Director, CIF




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Municipal Success with CIF Funding (1)



- 173 approved projects (\$20M)
- 124 project applications under review
- Over 100K tonnes per year (tpy) new MRF processing capacity
- Over \$4M per year projected savings by municipalities
- 19 blue box (BB) transfer station upgrades
- 106K households (hh) with large carts

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Municipal Success with CIF Funding (2)

- 676K hh with new BB
- \$1.125M to meet recycling plan best practices (BP)
- 40K tpy Ontario based plastics reprocessing
- 44% of total multi-residential (MR) units receiving CIF support
- \$650K for promotion & education (P&E) design & media
- Less than 4 year payback on investments

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Managing Future Change

- Assistance with contract development to deal with possibility of 100% EPR
 - web-based tool
 - staff support
- Help ensure competitive municipal operations
 - assist in implementing existing BP
 - development of new BP; staff support
- Waste Recycling Strategy assistance
 - guidelines, template, training (several events)
 - to date: 154 people; 106 programs



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Develop BB Capacity

- Management of more material
 - it's not about the tonnes any more
- More curbside capacity
 - larger BB
 - Durham tender \$4.65 plus tax for 22 gallon box
 - more MR carts
 - London tender closing soon
 - introduction of single family cart collection
 - Guelph, Timmins, Bluewater



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Capability to Manage More / New Materials

- Collection improvements
 - automated collection
 - radio frequency identifier tracking & management of carts
 - route optimization
- Material processing
 - expanded polystyrene densification
 - MRF modifications
 - optical sorting-plastics capacity/management
 - increase overall processing capacity
- Supply chain management to increase end demand for post-consumer resins



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CIF Timing

- Current Stakeholder Agreement states that unused funds are to be rolled over to the subsequent year for a maximum of 3 years
- New projects can be approved until end of 2013 or until the money runs out

**Funds still remain.
Get your applications in!**



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Budget

- Current funding
 - \$20M in approved projects
 - \$19.6M available for new projects
 - \$2.85M withheld by MIPC for future projects
- Additional funding
 - CIF has recommended reducing municipal contributions from 20% to 10%
 - MIPC to consider this summer



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How Can We Help Your Municipality?

Andy Campbell – Director CIF
andycampbell@wdo.ca 705.719.7913

Mike Birett – Manager CIF
mbirett@wdo.ca 905.936.5661

Clayton Sampson – CIF Project Manager
csampson@wdo.ca 519.539.0869

Anne Boyd – Multi-Residential Support
a Boyd@london.ca 519.661.2500 x 6464

www.wdo.ca/cif



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Recycling Perspectives

Andy Campbell
Director, CIF

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This Session

- Speakers represent varying perspectives on recycling
 - Alec Scott, Municipal MIPC
 - Rob Cook, OWMA: private sector perspective
 - Glenda Gies, WDO

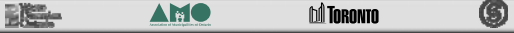
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Ontario's Waste Diversion Act: The Road to EPR

Alec Scott
Municipal MIPC


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Waste Diversion Act

- Anticipated to be tabled in the house – early fall 2010
 - aggressive timetable suggested once bill introduced
 - buy-in from municipalities & stewards
- After introduction of Waste Diversion Act (WDA), transition of several years expected
- Municipal support of WDA is crucial to its success


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Ontario's Proposed Outcome Based Approach

- Proposed changes to WDA aimed at developing a 'waste diversion framework' based on 4 outcomes:
 1. Increased waste diversion
 2. Sustainable product & packaging design to reduce waste & improve effectiveness of diversion
 3. Investment in green industry to develop re-use opportunities & new processing & end markets for recycled materials
 4. Opportunities for meaningful participation in waste diversion activities by all Ontarians


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Anticipated Impact of Full EPR

- Full Extended Producer Responsibility for containers & printed materials will not become a reality until changes to WDA are tabled
- AMO anticipates that changes will increase recycling of materials in both the residential & ICI sectors & increase stewards planning, compliance & reporting obligations
- Full EPR will place accountability for waste diversion under control of producers responsible for making decisions about introduction of packaging & printed materials into the marketplace

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Current Funding Model

Last complete Datacall is from 2008 – determines 2010 funding

2008 Reported Municipal Net Costs (WDO Approved Net Costs)	\$168,370,434.74
2008 Estimated Cost of Program Employing Best Practices	\$165,601,269.61
2008 Stewards' Obligation under WDA (50% of average)	\$83,492,926.09
OCNA In-Kind (advertising – not paid as cash)	(\$1,442,510.15)
Municipal Continuous Improvement Fund Contribution (20% of Obligation – OCNA)	(\$16,410,097.97)
Actual Cash Funding Returned to Municipalities (39 % of Reported Net Costs)	\$65,640,317.97



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Benefits of EPR

- Encourages design of sustainable packaging & products
- Promotes re-use as a concept in product design
- Meaningful participation by everyone
 - use less, pay less
- Responsibility for recovery moves from municipalities to producers
- Promotes development of supply chain models for recycled products



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100 % Financial EPR Model

Item	Change
Reported Municipal Net Costs	WDO will continue to administer municipal Datacall & report approved net costs
Best Practices Program Cost Estimation	MIPC approved BP Model will determine estimated program costs using BP Model
Stewards' Obligation under WDA	Negotiated using BP & Reported Net Costs (currently under review)
OCNA In-Kind	Municipalities want end to in-kind payments
Municipal Continuous Improvement Fund Contribution	CIF Program Funding currently ends in 2010 (extension under review)
Actual Cash Funding Returned to Municipalities	100% of Negotiated Net Costs (less CIF if extended)



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100 % Full EPR Model

Item	Change
Reported Municipal Net Costs	No longer a factor Participating Municipalities will function as contractors to Producers.
Best Practices Program Cost	No Longer a Factor
Stewards' Obligation under WDA	100 % of all costs
OCNA In-Kind	No Longer a Factor
Municipal Continuous Improvement Fund Contribution	No Longer a Factor
Actual Cash Funding Returned to Municipalities	None



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Concerns with Full EPR

- * Municipalities still responsible for waste & organics
 - need benchmark quality controls on recyclables in waste streams
 - SO audits done in 2005 to 2007 provide good baseline information
- * Service quality must be maintained
- * Increased IC&I diversion must not mean decreased residential diversion



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Waste to Worth MOE's 2009 Proposal

- * Individual producers responsible for all aspects of waste diversion for their share of designated materials sold in Ontario
 - producers may develop individual waste diversion plans
 - groups of similar producers may join a materials management scheme
 - plans must demonstrate consumer convenience, verify diversion of designated materials, meet material specific diversion targets & track materials from handling to final destination



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Driving Diversion

- * WDA proposes penalties & bans to prevent landfilling of divertable materials
- * Minister's "Waste to Worth" Report presents long term waste diversion schedule for designation of classes of materials
 - administrative penalties for failure to demonstrate success in meeting diversion obligations
 - penalties for producers not meeting 5 year targets
 - banning of designated materials from landfilling where feasible alternatives exist



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Municipal Response to Waste to Worth Proposal

- * During townhall meetings with MOE in late 2009, municipalities responded that:
 - full EPR must include transfer of financial & operational obligations to stewards
 - recovery rates in residential sector must be maintained at current levels for the short term & improve in the long term
 - MOE must provide direction on BB transfer
 - transition process must be seamless providing continued convenient curbside services to residents
 - WDA must include recognition of disposal solutions, e.g. recovering energy or fuel



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Transition Issues

- * Transition negotiations between municipalities & stewards must include:
 - protocols for transfer of municipal infrastructure that fairly address municipal "stranded assets" & infrastructure to be retained by municipalities
 - dispute resolution mechanism relating to transferred assets
 - procedures for the transfer of existing service contracts & labour contracts
 - interim agreements to manage transition of the operational aspect of the program as EPR moves to 100% & stewards establish their own infrastructure.



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What's Needed During Transition?

- * Infrastructure Maintenance Funding
 - municipalities will need incentives to improve MRFs & collection infrastructure that they may no longer own or operate after transition
- * Building WDO
 - WDO will need growth funding as it begins to assume new roles such as compliance assurance & enforcement, program development & review, research & development, etc.



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Supporting the WDA

- * AMO, Municipal Waste Association (MWA) & Regional Public Works Commissioners of Ontario (RPWCO) sent letter supporting WDA to Premier in early June 2010
- * AMO will send additional letter of support following June Board meeting
- * Model municipal template for support will be circulated for individual municipal responses
 - show your municipality supports WDA



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Individual Municipalities *What you can do*

- * Keep current
 - continue employment of BP
 - continue to improve your BB programs during transition
- * Educate yourself – check with AMO for current status
- * 100% Blue Box EPR represents average cost reduction of \$13.20 per household
- * We're in this together – it benefits all of us





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For further information:

Contact:

Alec Scott
 MIPC Blue Box Program Coordinator
 (705) 722 0225
 archenv@sympatico.ca








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OWMA Perspectives on EPR Programs & Servicing

Rob Cook
 Ontario Waste Management Association








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Project Highlights





- Private Sector Opportunities Under a New WDA
- Private Sector Engagement in a 100% EPR Blue Box program
- The Implications of Expanding Blue Box into the IC&I Sector
- More information: rcook@owma.org
- www.owma.org

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The New Waste Diversion Act



- On hold or gone forever?
- The politics behind a 'failed' legislative introduction
 - 'enabling' = general / lack of detail
 - a disposal fee = a 'tax'
 - IPR not universally supported by brand owners
 - Cabinet dynamics
 - The political question – 'What is the positive upside to this Bill?'

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Private Sector Opportunities Under a New WDA

- IPR breaks the existing IFO monopolies & forces competition
- Private sector firms will engage brand owners directly
- IFOs will become 'service brokers' & have difficulty competing

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Private Sector Opportunities Under a New WDA

- Private sector advantage - dynamic efficiency (innovation) and allocative efficiency (efficient investment of capital)
- Can public / IFO delivery of waste services keep pace with producers' demands for economic efficiencies?




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Private Sector Engagement in a 100% EPR Blue Box program

- * Direct IFO – Private Sector Linkages
 - collection contracts
 - MRF assets / operations
 - material marketing
- * The Transition from Municipal to Private
 - timing
 - municipal contracts & stranded assets
 - integrated municipal systems



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The Implications of Expanding Blue Box into the IC&I Sector

- * The private sector's 'Home Turf'
 - 'incentive-based' program expectation
 - 'nose in – fingers out' position
 - competition to the BB program for materials – commodities with value.
 - competition will occur based on waste ownership



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Waste Diversion Ontario Update

Glenda Gies
Executive Director



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Overview

- * 2009 Datacall
 - very preliminary data trends
 - determining net system cost
 - funding distribution
- * Public Sector MRF Capability Project
 - project scope
 - proposal evaluation/award
 - deliverables & timeline
- * Revised BB Program Plan
- * Amended Waste Diversion Act



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2009 Datacall

- * Very Preliminary Data Trends
 - reported tonnes trending slightly ↓
 - reported revenue trending significantly ↓
 - reported gross costs trending slightly ↑
- * Calculation of net system cost
 - reported gross costs +/- prior year adjustments
 - less 3 year rolling average revenue
 - will mitigate 2009 lower revenue



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2009 Datacall

- * Determining Net System Cost
 - WDO staff working to verify 2009 data
 - goal to be completed by June 30
 - MIPC's BP Cost Model Working Group working to update model
 - MIPC will
 - review updated BP Cost Model on June 25
 - review reported costs & BP Model costs on July 4
 - provide recommendation on 2009 net best practice system cost to July 28 WDO Board meeting



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2009 Datacall

Funding Distribution	2010 (2008 Datacall)	2011 (2009 Datacall)	2012 (2010 Datacall)
Datacall Best Practice questions	5%	15%	25%
Program performance	30%	40%	45%
Net cost	65%	45%	30%



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Public Sector MRF Capability Study

- Project Scope
 - compile comprehensive, independent information on capacity, capability, condition & expansion plans of public sector MRFs
 - provide information to WDO, individual municipal MRF owners, AMO & SO
 - information may be of value to MRF owners & SO
 - should Minister direct that BBPP be revised based on full EPR



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Public Sector MRF Capability Study

- Proposal Evaluation/Award
 - WDO established Steering Team including reps from Stewardship Ontario, AMO & City of Toronto
 - developed RFP, evaluated proposals, interviewed shortlisted respondents, selected AECOM
 - WDO forwarded notification letters to municipal MRF owners during week of June 7
 - AECOM will be contacting municipal MRF owners
 - with request for survey information
 - to schedule site visits



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Public Sector MRF Capability Study

- Deliverables & Timeline
 - draft report on each MRF forwarded to municipal owner for review following site visit
 - final report provided to Stewardship Ontario & AMO
 - where MRF owners have agreed to release their MRF report to other municipal MRF owners, these sections will be shared among those MRF owners
 - scheduled completion date early 2011
 - project cost \$250,000 (plus taxes)
 - jointly funded by Stewardship Ontario & CIF



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Revised Blue Box Program Plan (BBPP)

- BBPP revised to
 - achieve 70% diversion by December 2011
 - include packaging-like products
 - include sources of residential printed papers & packaging other than municipal programs
- Submitted to Minister by April 30 as required
- Will be posted on Environmental Registry (ER)
 - at Minister's discretion



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Amended Waste Diversion Act

- Minister had been suggesting amended WDA would be tabled before legislation rises for summer
 - however, was not tabled
 - MOE indicates internal process not completed before summer break
- Now what?
 - possibly tabled for 1st reading when legislature returns
 - would then be posted on ER & referred to committee
 - returned for 2nd & 3rd reading at government's discretion




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Questions

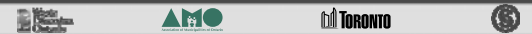
"Ask a Question" at console bottom right

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Refreshment Break

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Welcome Back

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CIF on the Web

Clayton Sampson
CIF Project Manager



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Background

- * CIF committed to assisting programs in implementing better & best practices for BB program operation
- * Approach is to develop "tools" that programs can access to address common issues/ problems
- * Innovative approaches to information sharing & promoting BP

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Issue

- * Many programs share similar operational issues
- * Intent is to define best means to effectively provide support to many programs
- * Goal is to help BB programs operate at the best level they can

All available at ORW page of www.wdo.ca/cif; demonstrations in lobby at lunch break

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For Later Discussion...

- * Can you see web-based tools/templates being useful to you & your program?
 - if no, why OR if yes, what tools/templates would be greatest value?
 - are the tools discussed today useful for you?
- * Would you use additional tools & templates if they were available & if so, what ones?
- * Is there a better way to set-up web-based tools?



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In This Session...

- * Examples of new “tools” for municipalities
 - municipal contract tendering tool
- * Tova Davidson, MacMillan Marketing Group
 - small program P&E plan template
- * Competitive Edge Consultants
 - demonstrate new database for MR buildings
- * Peter Zolotar, City of London
 - overview of MR communications tool



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Municipal Contract Tendering Tool CIF Project 122

Clayton Sampson
CIF Project Manager



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Project Highlights

- * *Project goal:*
To provide a recycling service “tender” tool that municipalities can utilize
- * *Anticipated impacts:*
Competitive & possibly lower pricing to provide recycling collection & processing services
- * *More information:*
csampson@wdo.ca
www.wdo.ca/cif



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Seeking Contract Efficiencies

- * Majority of programs contract out recycling collection &/or processing
- * Potential for significant operations savings though effective & competitive tendering
- * Need to have a “model” or example contracts for these services
 - highlight good & better practices
 - documents that are open & useable



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Municipal BB Contracts Database

- * Highlight better practices as well as some to be avoided
 - common practice was to keep “recycling” information which may be in error
- * Strategic decision to assemble annotated model documents for collection & processing
 - provide constructive & informational comments
 - provide alternative clauses & wording
 - interactive search feature



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Accessible to All Programs via CIF Website



Hosted at third party website



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Using the Contract Database

- Database is accessed through the CIF website
 - no password required
- Can download copies of the document
 - PDF for reference
 - MS Word version available
 - cut & paste to develop customize contract



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Search on Key Topics of Concern

Search by:

- topic
 - MRF operator/capacity
 - Collection services
- section
- annotation

- Useful Equipment Life/Contract Terms,
- Procurement Schedules,
- Clear Service Requirements,
- Appropriate Procurement Tools,
- Competitive Procurement,
- Fair Contractor Selection Process,
- Partnership Oriented Approach,
- Communication and Contract Monitoring,
- Flexibility for Change,
- RFP Structure

Any Contract Type
Any Section
Any Annotation
Search Database



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Going Forward

- Please take time to give it a try...!
- CIF seeks comments from users as to:
 - aspects you most like/would like to change
 - if this is useful &/or how we should modify it to make it more valuable
 - suggestions for additional information

Look for 'continuing improvement' with regular updates & revisions



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Blue Box P&E Online Planning Tool CIF Project 192

Tova Davidson,
MacMillan Marketing Group



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Project Highlights

- Project goal:
 - help smaller municipalities, with limited resources, develop effective BB promotion & education (P&E) program
- Anticipated impacts:
 - increase municipal P&E activities, maximize municipal resources, meet BP requirements
- More information:
 - tovad@macmillanmarketing.com
 - www.macmillanmarketing.com



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Overview

- * Custom marketing plan
- * Custom marketing materials
- * Ability for you to further customize each component, if you wish
- * Centralized spot for all BB P&E program information
- * Maximizes municipal resources in developing plan
 - majority of costs emerge in production phase



Intended Use: communities with limited staff/budget resources to complete & deliver full P&E plan

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- Intended Use: communities with limited staff/budget resources to complete & deliver full P&E plan**

Value-Added for Small Communities

- * Recycling challenge: increase diversion & achieve economies of scale
 - requires ongoing, effective P&E
- * P&E challenge: assemble staff & financial resources plus expertise
- * User profile
 - designed for small programs < 30K population
 - any staff can use the tool, just need a log in
 - 10 min. to produce base plan & set up template communication pieces



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- Recycling challenge: increase diversion & achieve economies of scale
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- P&E challenge: assemble staff & financial resources plus expertise
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 - designed for small programs < 30K population
 - any staff can use the tool, just need a log in
 - 10 min. to produce base plan & set up template communication pieces

[illegible]

- | <p>The following worksheet can be used to plan and budget for the P&E tactics. Contact local suppliers for quotes and amounts then fill in the table below to create a detailed budget for the P&E program for the coming three years.</p> | | | | | |
|--|--------|------------------|--------|--------------------|--------|
| Year One Tactics | Budget | Year Two Tactics | Budget | Year Three Tactics | Budget |
| Media Relations | | E-mail Reminders | | Advised Programs | |
| General Information Piece | | Bridge Magnet | | Street Signs | |
| Workbooks | | | | | |

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Part Two: Custom Materials

- Upload municipal logo
- Templates created for the following tactics:
 - Ad; Poster; General Information Piece; Brochure; Email Reminder; Newsletter; Flyer; Refrigerator Magnet; Direct Mail

The image shows three examples of custom materials created for recycling promotion. On the left is a refrigerator magnet with a blue header, a central image of a recycling bin, and a footer with a recycling symbol and the website URL. In the middle is a flyer with a blue header, a central image of a recycling bin, and a footer with a recycling symbol and the website URL. On the right is a poster with a blue header, a central image of a recycling bin, and a footer with a recycling symbol and the website URL.

STEP 1
Upload logo/magnet

STEP 2
How to recycling bin

STEP 3
Large bin for recycling bin

Recycling 1 aluminum can = the energy to run your TV for 3 hours.
100% 1 can makes a difference.
It's so easy, why not recycle?

<http://www.winnipegrecycling.com>

RECYCLING MATTERS

BLUE BOX RECYCLABLE ITEMS

Paper (uncoated or coated)

Glass Bottles and Jars

Clean Plastic Bottles

Tubs and Cans

Clean Plastic Bottles

Aluminum Cans

Steel Cans

Corrugated Cardboard

800-639-6339

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-
- STEP 1**
Enjoy beverage
- STEP 2**
Toss in recycling bin
- STEP 3**
Leave bin at curb Tuesday morning
- Recycling 1 aluminum can = the energy to run your TV for 3 hours.
YES, it can make a difference.
It's so easy, why not recycle?
- <http://www.mackmillanmarketing.com>



Other Tool Highlights

- FAQ (Frequently Asked Questions) section
- Produce multiple versions of each tactic
- Each version of every tactic you create is saved & available for you to download at any time



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Getting Started

- To get started, simply contact Clayton Sampson for username & password
– csampson@wdo.ca

Enjoy!







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Multi-Residential Database CIF Project #236

Corey Cruickshank
Competitive Edge Information
Systems Inc.

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Project Highlights

- Project Goals:
 - Manage data on multi-res properties
 - standardize data collection & management
- Anticipated impacts:
 - Municipal staff have improved access to MR data
 - Improved responsiveness to MR challenges
 - Increase multi-res recycling
- More information:

info@competitive-edge.on.ca
www.competitive-edge.on.ca
Anne Boyd, CIF MR project
aboyd@london.ca



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The Challenge

- Information stored in multiple files or programs
- Not centralized
- No consistency
- Difficult to find & access data



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Solution

- One easy-to-use, customizable, relational database managing:
 - buildings
 - contacts
 - recycling/garbage info (including container info)
 - P&E & outreach activities
 - site inspection reports
 - images (site plan, building photos, etc.)
- Project is CIF staff directed, municipal advisory group
- Project budget: \$7,600; 100% funded by CIF



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Quick look at the draft database.... Finding a Property

1

2

3

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Property Specifics

1

2

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Recycling Information

1

2

3

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Outreach Tab

1

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Images

1

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Accessing the database

- Microsoft Access
 1. Access program – full program features (e.g. generate reports, queries, edit design), or
 2. Run time version – for non-Access users
 - input & manage data
 - run standard reports
- Download from CIF website
- No cost to municipalities for base program
- Non-BB applications (i.e. green bin) can be added (at cost)

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Next Steps

- * Beta testing by municipal staff (4 programs)
- * Round 2 revisions, then round 2 testing
- * Available to municipalities this summer

Contact:
info@competitive-edge.on.ca
 OR
aboyd@london.ca



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CIF Interactive P&E Web Tool

Developing P&E to Support MR Recycling


CIF #166

Peter Zolotar
 City of London &
 My Green Workplace




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Project Highlights




- * Goals:
 - Develop P&E materials to support recycling in multi-residential buildings in Ontario municipalities
 - Create user-friendly internet application for municipal users to have access to P&E & make changes & updates
- * Anticipated Impacts:
 - access to improved, readily accessible, customizable, low-cost P&E to municipal users
- * More Information:
 - aboyd@london.ca and/or pzolotar@london.ca



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Project Rationale


- * 4 reasons for this project:
 1. Little info provided to residents, staff & property owners about multi-residential recycling
 2. Need to develop consistent messaging across municipalities & associated cost benefits that one coordinated project would provide
 3. Increased P&E is a recognized BP
 4. Residents & building staff feel uninformed & would like more information



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Project Description

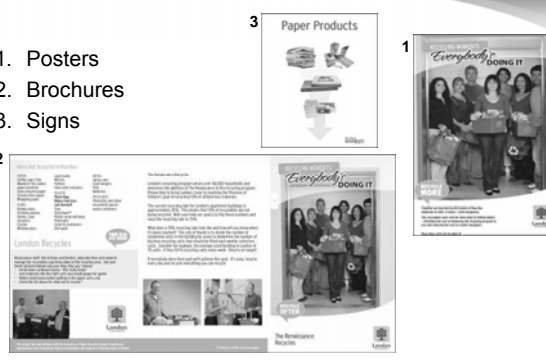
- * Key features:
 - accessible through www.wdo.ca/cif/
 - individual log-in & "workspace"
 - custom design
- * Benefits of this program:
 - easy to understand
 - customization (specific issues or buildings)
 - professionally developed
 - quick to use
 - provides municipal staff with hands-on tool & able to create new versions



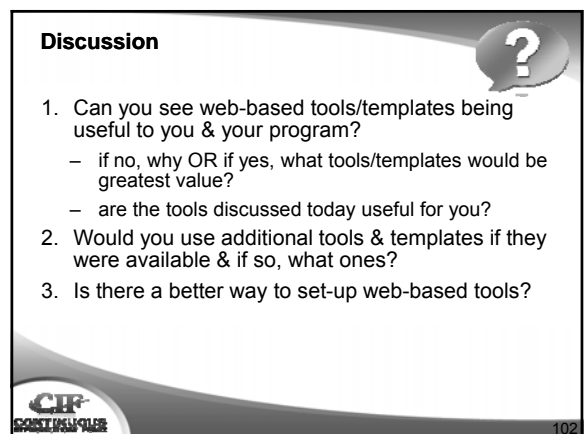
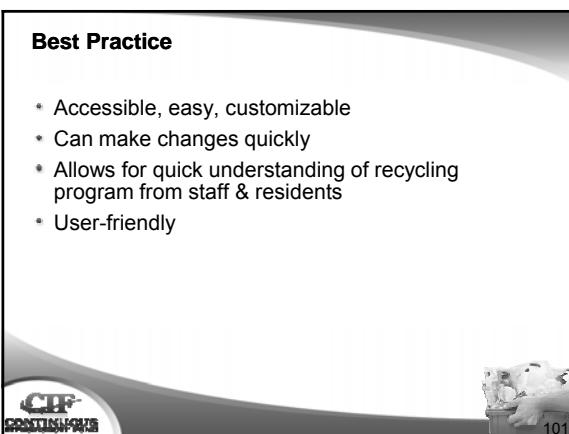
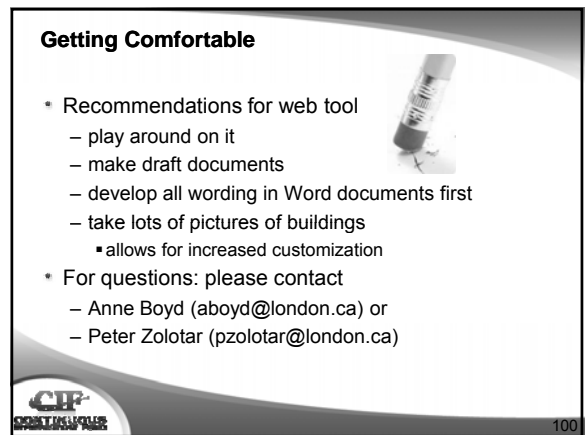
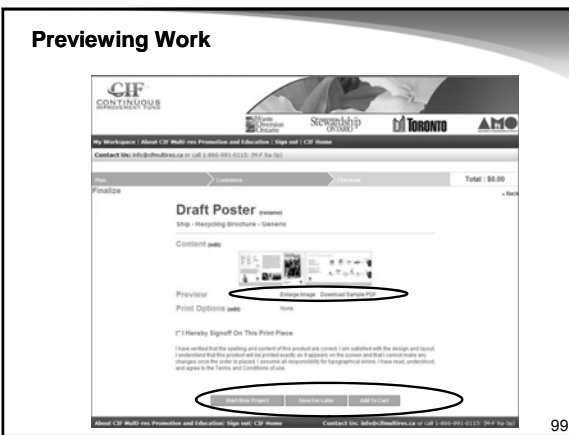
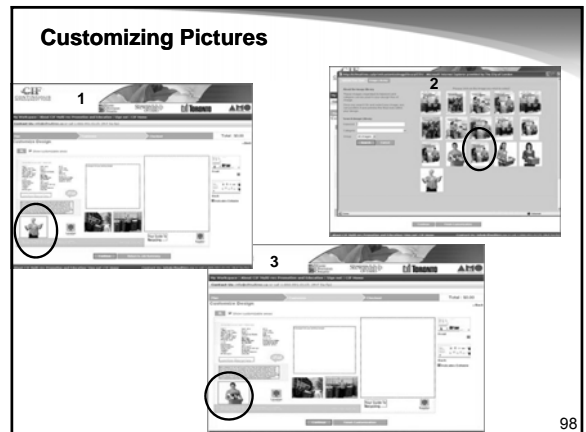
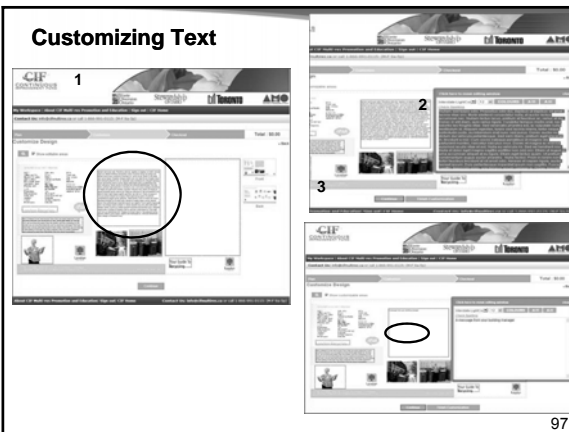
95


What You Can Produce

1. Posters
2. Brochures
3. Signs



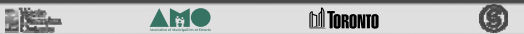
96





Plenary & Questions

103




Ontario Blue Box Recycler Training E&E Fund 341

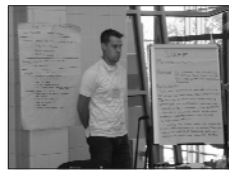
Carrie Nash
Municipal Waste Association


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Ontario BB Recycler Training Updates

Fundamentals:
Carleton University, Ottawa
• September 27 to October 1








Specialized Courses:
Hockley Valley Resort, Orangeville

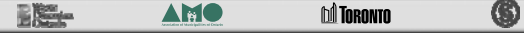
- **Promotion & Education**
October 13 to October 14
- **Contract Management**
October 27 to October 28
- **Markets & Marketing**
November 9 to November 10
- **Data Management**
November 17 to November 18

105

Morning Session Concludes

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Enjoy Your Lunch

Don't miss OES Special Session
at 1:00 p.m.

107




OES Presentation begins at 1 p.m.

108





Building Momentum on E-Waste Collection

Carol Hochu
OES Executive Director

Ontario Recycler Workshop
June 17, 2010

OES Province-Wide Footprint

- 550+ approved collection sites & events
 - 79 municipalities
- New Roll-off Program for municipalities & events
- dowhatyoucan.ca + ontarioelectronicstewardship.ca
 - virtual hub for OES resources for collectors

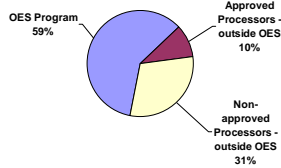


ORW | Slide 110
June 17, 2010



OES & Non-OES Tonnes Collected

Year 1 - Flow of Ontario Collected E-Waste



OES Focus

Grow the pie:
Increase e-waste collection

Integrate approved
processor volumes
into OES

Shrink the share of
non-approved processors
with value of high
standards

ORW | Slide 111
June 17, 2010



OES Leadership & Innovation

- April/May 2010 collection volumes up 23% over same period 2009
- Responding to collector needs in 2010
 - 42% increase in collection incentive for mixed e-waste
 - curbside handheld electronics collection pilot with City of Toronto
 - survey of collectors
 - consultation on Material Flow Arrangements



ORW | Slide 112
June 17, 2010



OES 2010 Consumer Research

- High awareness & motivation for e-waste recycling
 - 82% of Ontarians have electronics that are not in use or not working
 - 7 in 10 Ontarians know that e-waste should be handled in specific ways
 - 51% of Ontarians (versus 39% in 2009) have taken waste electronics to a municipal drop-off event or depot
- Municipalities are most trusted by Ontarians
 - More than other collectors in handling electronic waste
 - 81% of Ontarians prefer a year-round recycling facility or designated drop-off site over event-based collections

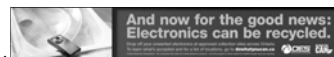
Source: Ipsos-Reid, 2010

ORW | Slide 113
June 17, 2010



OES Driving the Message

- Doubling consumer reach
 - 10.5 million media impressions at Phase 2 Launch
 - advertising & PR: \$7M from \$3M
 - dowhatyoucan.ca/electronics = 45% increase in visits/month in 2010 vs. 2009
- Clear call to action:
 - recycle your electronics.
 - visit an OES-approved collection site.



ORW | Slide 114
June 17, 2010



OES Driving the Message

- Province-wide spring advertising & PR campaign
 - 220 billboards across Ontario
 - 10 sec. radio spots in 16 markets
 - 1,200 posters in all Beer Store locations
 - online advertising on geo-targeted sites & social networks
 - print ads in community papers & magazines

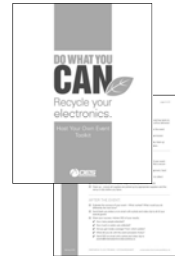


ORW | Slide 115
June 17, 2010

OES Partnering with Municipal Collectors

- OES Communications tools to boost collection volumes & raise awareness
 - free of charge
 - English & French
 - download from OES website
 - ontarioelectronicstewardship.ca/collectors/events.html

- Do What You Can brochure
- Host Your Own Event Toolkit
- Media advisory & release templates
- Print ad templates
- Promotional posters
- Wipe your drives... Clear your SIM card...



ORW | Slide 116
June 17, 2010

OES Partnering with Municipal Collectors

- OES Operations Team supports municipal collection sites & events
 - permanent site set-up & maintenance
 - packaging & transportation
 - promotion & education
 - resources



ORW | Slide 117
June 17, 2010

OES Values Municipalities' Insight

- Municipal experience contributes to OES success
- Keep OES informed of landfill locations & operations to enhance partnership opportunities
- Advise us of Certificate of Approval amendment applications – OES & MOE keeping up communication to streamline approvals where possible

ORW | Slide 118
June 17, 2010

The OES Roll-Off Program

- Based on feedback from municipalities, OES introduced Roll-off bins to simplify collection and boost volumes
 - events & permanent collection sites
 - OES collection & transportation
 - apply online at services@ontarioelectronicstewardship.ca OR
 - see Sherry Arcaro today



ORW | Slide 119
June 17, 2010

OES & Northern Ontario Communities

- OES is expanding its Northern network
 - population statistics show the North could yield 10% of all Ontario e-waste
- Current Northern permanent collection partners include
 - municipalities, retailers (Best Buy, Staples, Future Shop, etc.) & other local businesses
- OES opportunities for permanent & event-based partnerships



ORW | Slide 120
June 17, 2010

Northern Ontario Collection Network

- Much opportunity to participate in events & OES run round-ups
- Many successful Northern events
 - Kenora: 16 tonnes collected over 2 days
 - Kirkland Lake, Manitoulin Island & servicing Sears Catalogue stores
- OES seeking recommendations for under-served Northern locations to hold more events
 - no location too small or remote



ORW | Slide 121
June 17, 2010

Electronic Waste Collection Marketing Co-Funding Program

- OES to co-fund 50% of eligible marketing expenses by approved collectors to promote electronic waste collection sites & events in 2010
 - up to \$800 per year for each OES-approved permanent site or collection event
 - subject to meeting eligibility criteria and receiving prior OES approval
 - while budgets are available
- Funds must be directed to raise visibility and increase collection volumes
- Apply at events@ontarioelectronicstewardship.ca

ORW | Slide 122
June 17, 2010



OES Welcomes New Partners

- Contact: services@ontarioelectronicstewardship.ca
- Visit: ontarioelectronicstewardship.ca

Province-Wide Operations Team

- Sherry Arcaro
- Drew Berketo
- Cynthia Hyland
- Dave Neilson
- Mandy Pereira
- Laura Shippen
- Tanya Delaney
- Mary Jean O'Donnell
- Nina Digioacchino



ORW | Slide 123
June 17, 2010



Thank you!

ontarioelectronicstewardship.ca
dowhatyoucan.ca/Electronics

Ontario Recycler Workshop
June 17, 2010



Welcome Back to ORW

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Afternoon Agenda

- Session 4–CIF Innovation
 - discussion segment
- Afternoon Break (~2:30)
- Session 5–Markets for Plastics
- ORW ends (~3:30)



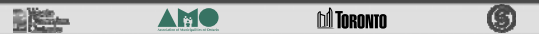
126

CIF
CONTINUOUS
IMPROVEMENT FUND

Innovation: A Work in Progress

Mike Birett
CIF


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Background


- 1 out of 200 new businesses succeed
- CIF mandate focuses on innovation
- CIF budget includes \$8.4M or 18% allocated to innovation
- \$1.5M allocated to emerging technologies
- One of the more challenging funding areas

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Presentation Objectives

- Review work to date
 - what's working
 - what isn't
- Discuss areas of potential new focus




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MRF & Collection Technology

- Hamilton optical sorter: CIF #118 (I)
- Niagara fibre screen retrofit: CIF #140 (I)
- Niagara & Bluewater container line retrofit: CIF #135 & 161 (BP)
- Hamilton film grabber: CIF #119 (ET)
- Transfer & compaction

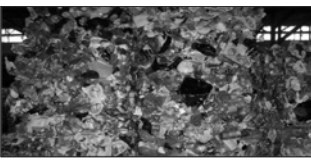


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Problem Materials

- Joint SO/CIF plastics RFP: CIF #127 (I)
- Napcor thermoform study: CIF #207 (ET)
- EPS densification analysis: CIF #130 (I)
 - funding for Sault Ste. Marie: CIF #279 (I)




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Areas of Continued Interest (1)

- Collection systems
 - automated collection
 - route optimization: CIF #180
 - alternative fuels vehicles analysis CIF #217
- New Processing Technology
 - international scan: CIF #195 (ET)
 - trade mission: CIF #256 (ET)



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Area of Interest (2)

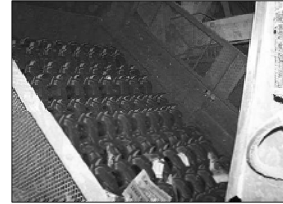
- * Low pressure plastics extrusion CIF: #139 (ET)
- * Densification in MRFs
- * Air classification & fibre separation
- * Automated cart collection
- * Better practices for open space recycling



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For more information

- * Contact Mike Birett at:
 - (905) 936-5661
 - mbirett@wdo.ca
 - www.wdo.ca/cif



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For Later Discussion...



- * What change do you see declining newsprint volumes & markets having on collection & processing?
- * What is the most significant change in the container stream in your community & what, if anything, should CIF do about it?
- * Is there a role for plastic bag based collection for overflow or as a primary collection container?
- * What area of innovation do you think CIF should focus on & why?



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Municipal Waste Recycling Strategy Workshops & Guidebook CIF #258

Phil Jensen, GENIVAR
with the Municipal Waste Recycling Association



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Project Highlights



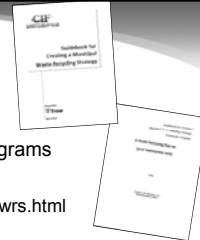
- * Project goal:
 - Help up to 160 municipalities meet WDO BP requirement for recycling plans
 - facilitate application of Waste Recycling Strategy (WRS) guidebook & template
- * Anticipated impacts:
 - Improve ability to meet WDO Datacall BP requirements,
 - maximize future funding allocation
 - diversion improvements & enhanced efficiencies
- * More information: www.wdo.ca/cif



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Project Description

- * Development of Guidebook & Template for creating a WRS
 - piloted with Lambton County programs
 - available online for any program
 - http://www.wdo.ca/cif/guidelines_wrs.html
- * Information Workshop Delivery
 - CIF set up 8 workshops across province
 - 5 complete, 3 more in June
 - provide WRS guidance document
 - GENIVAR facilitates process 'walk through'



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Project Impacts

- * Expected to assist programs with development of a BB recycling plan
- * With proper recycling planning, municipalities can increase efficiency impacts (cost savings) & effectiveness (increased tonnage)
- * Allow municipalities to meet WDO Datacall BP questions #1 & 2
 - BP questions 1 & 2 = 9% of total funding in 2012

Programs without WRS risk
losing 9% of total 2012 funding

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Progress to Date

- * 5 workshops complete (Huntsville, Kingston, Orangeville, Barrie & Webcast, Dryden)
 - ~107 municipalities & 149 people attended so far
- * 3 workshops to come
 - Sudbury–June 22
 - Ottawa–June 24
 - London–June 29



- * Register via www.municipalwaste.ca or e-mail ben@municipalwaste.ca

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BP Impact

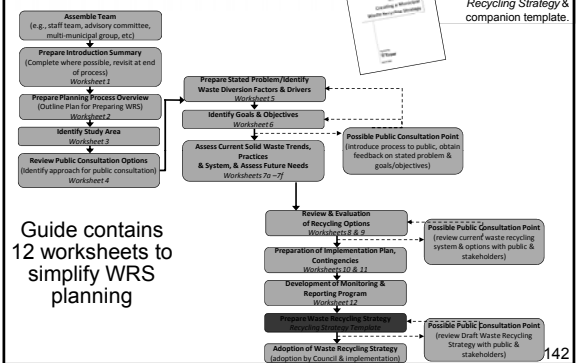
Funding for BP questions 1 & 2 in 2012 will represent about 9% of total WDO funding

1	Development & implementation of a up-to-date plan for recycling as part of a Waste Diversion System or Integrated Waste Management System	12.5%
2	Establishing defined performance measures, including diversion targets, monitoring & a continuous improvement program	25%

Protect your program's 2010 WDO funding!

141

Another Approach: Planning Process



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Planning Process

- * Some steps include
 - refining study area
 - listing factors & drivers
 - establishing goals & objectives
 - characterizing current system, costs & waste generation
 - determining future needs
 - assessing options
 - implementation planning
- * Workshop: PPT slides & round-table discussions



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Next Steps

- * Upcoming workshops at end of June
 - details & registration, www.municipalwaste.ca
- * Complete WRS with in-house resources or consultants
- * CIF covers 75% of expense up to \$15K
 - if working with other municipalities CIF may raise total allowable funding to 90% (up to \$45K)
- * Short form application for programs which have not applied for funding assistance
 - i.e., did not respond to REOI
- * Must sign project agreement letter (not full project agreement)



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Assistance for WRS Planning

- * Municipalities have to decide:
 - undertake plan themselves
 - utilize consulting help for specific parts
 - have a consultant do entire plan
- * CIF will provide financial support for plan development costs regardless of how do plan
- * Any work that municipality undertakes on own can be counted towards the municipal contribution to plan support




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Assistance for WRS Planning

- * 2 options to obtain WRS planning assistance:
 - through regular municipal procurement process
 - through agreement with CIF, by request
- * To date:
 - CIF identified consultants who are familiar with documents & WRS process
 - developed generic scope of work to select consultant
- * Municipality will be responsible to complete plan & manage cost




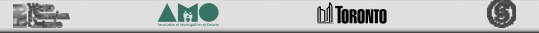
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Multi-residential Round Up

Anne Boyd
CIF, City of London





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Municipal MR Projects (1)

- * MR is priority area for CIF funding
- * CIF funding readily available to implement MR best practices (BP), including:
 - survey buildings – complete site visits
 - develop baseline data for recycling performance, e.g. number of containers, kg/unit
 - update database of properties
 - carts, bins to increase capacity
 - P&E for residents, staff, property owners
- * CIF funding available for innovative approaches



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Municipal MR Projects (2)

Project	CIF Funds	MR House-holds	Extras (above BP)
Stratford	\$33,000	3,300	-In-unit containers
Quinte	\$62,000	7,200	-Designed bulk bins to manage glass & OCC
Essex Windsor	\$40,000	27,000	-Increase compliance -In-unit bags

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Municipal MR Projects (3)

Project	CIF Funds	MR House-holds	Extras (above BP)
Peter-borough	\$13,000	6,300	-In-unit bags -out-reach
Durham	\$71,000	25,000	-In-unit bags -additional P&E
Niagara	\$249,000	22,000	-Extensive P&E, outreach -Increased service levels -Regional standardization

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Municipal MR Projects (4)

Project	CIF Funds	MR House-holds	Extras (above BP)
London	\$195,000	49,000	-Outreach -OCC bins
St Thomas	\$27,000	3,300	
Sarnia	\$59,000	7,000	-Signage -By-law enforcement

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Municipal MR Projects (5)

Project	CIF Funds	MR House-holds	Extras (above BP)
Waterloo	\$172,000	45,000	-In-unit bags
Oxford County	\$19,000	3,500	
Woodstock	\$24,000	4,000	

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Municipal MR Projects (6)

Project	CIF Funds	MR House-holds	Extras (above BPs)
Barrie	\$37,000	75,000	-In-unit bags -Extensive P&E -outreach
Toronto* Tower Renewal Pilot	\$39,000	11 buildings (540,000)	Exploratory study to develop waste diversion options for next phase roll-out

A number of other projects are currently under review

*refers to a different type of project

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CIF Directed MR projects (1)

- MR projects to benefit all
- Advancement of shared understanding of MR recycling
- Development of MR tools & templates
- CIF staff directed
- 100% CIF funded
- Municipal advisory groups providing input



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CIF Directed MR Projects (2)

Project	CIF Funds	Consultant/ Partner
113 – Secondment	\$120,000 (2009) \$30,000 (2010)	City of London MRWG
166 – P&E	\$135,000 (2009) \$50,000 (2010)	Lashbrook - London
137 – Database	\$7,800	Competitive Edge Consultants- Waterloo

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CIF Directed MR Projects (3)

Project	CIF Funds	Consultant/ Partner
219 – Ontario Building Code & Municipal Site Plan Process Review	\$49,000	Genivar
183 – Development of Key Performance Indicators for MR	\$6,000	MWA Plus 8 municipal partners

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MR Project Summary

- 19 municipal projects underway:
 - 14 Municipal
 - 5 CIF directed
- \$1.3M CIF investment
 - (including municipal contributions)



= \$2.3M total investment

CIF
CONTINUOUS IMPROVEMENT FUND

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CIF is Here to Assist with MR

- Funding available
 - simplified process
 - CIF policy provides standard funding for BP
- Technical & staff support
- Tools for success
- Purchasing assistance
- Welcome innovative ideas, new technology



Contact us with your ideas

CIF
CONTINUOUS IMPROVEMENT FUND

158

Overcoming Blue Box Transfer Costs CIF Projects 209 & 282


Tim Hunt, Public Works Supervisor
McDougall Township




CIF
CONTINUOUS IMPROVEMENT FUND

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Project Highlights



- Project goal:
 - reduced hauling costs for BB materials from depots
- Anticipated impacts:
 - combined savings across both sites of \$37K/year
 - improved capture of 450+ tonnes of BB materials per year
- More information:
 - pw@mcdougalltownship.on.ca
 - www.municipalityofmcdougall.com

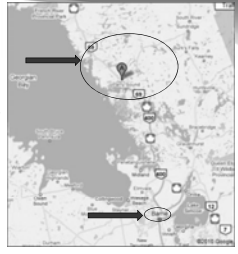


CIF
CONTINUOUS IMPROVEMENT FUND

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Welcome to McDougall Township

- 263 km located in district of Parry Sound on shores of Georgian Bay
- ~2,700 residents; population increases to 34,000 during tourist season
- primarily rural; Nobel (A) is largest community
- public drop off at transfer station & landfill only
- currently capturing 160+ tonnes/yr of 2-stream BB materials




CIF
CONTINUOUS IMPROVEMENT FUND

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McDougall Township's Challenge

- BB materials collected in 40 yd. roll-offs
 - similar to many small communities
- Small loads with high hauling costs
 - loads averaged only 1-2 tonnes/bin
 - hauling costs to WSI (Bracebridge): \$600/pick up



CIF
CONTINUOUS IMPROVEMENT FUND

162

Compaction as a Possible Solution

- * Compaction allowed township to increase loads by as much as 5 times previous weights
- * Concerns:
 - impacts on ability to process compacted materials
 - compactor power requirements
 - user friendliness & safety
 - maintenance



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Working Through the Issues

- * Discussions were held with the MRF operator
 - agreed that compaction would be limited to 2.5:1 initially & monitored
- * Equipment options ranged from:
 - 3 phase, solar only with generator back up & solar with 110V assist
 - 3 phase selected for transfer station (TS) & solar only for landfill
- * McDougall Twp approached CIF staff for financial assistance
 - both projects were funded



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McDougall Transfer Station - Overview

- * Project cost: \$112K
 - includes compactors for fibre & container with 2 bins
- * Project initiation: late summer 2009
- * Operational by September, 2009
- * Impacts:
 - averaging 3-4 tonnes/load
 - projected savings of \$30,000/year
- * One issue to date: frozen hydraulic system



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McDougall Landfill - Overview

- * Projected cost of \$133K
- * Includes compactors for fibre & container with 2 bins
- * Project approved June 3, 2010
- * Installation planned for July, 2010
- * Projected savings of \$17K/year
- * Goal of capturing 300 tonnes/year of additional recyclables



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Conclusions

- * Compaction is a good option for depot operations with long distances to market
- * Options exist for those without power
- * Final project reports expected late 2010
- * For further information contact Tim Hunt at:
 - pw@mcDougalltownship.on.ca
 - (705) 746-9002



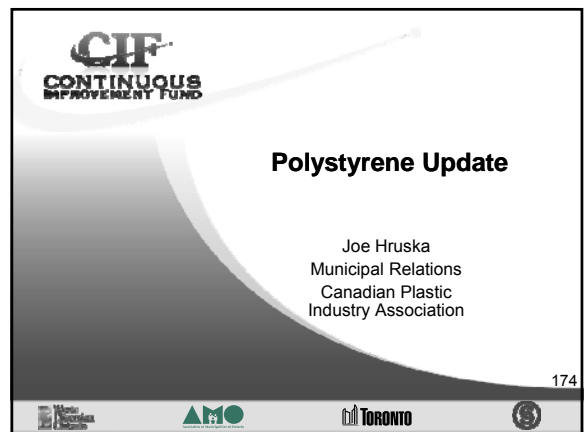
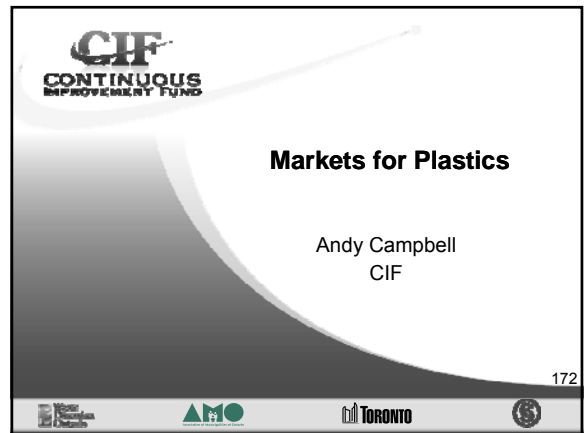
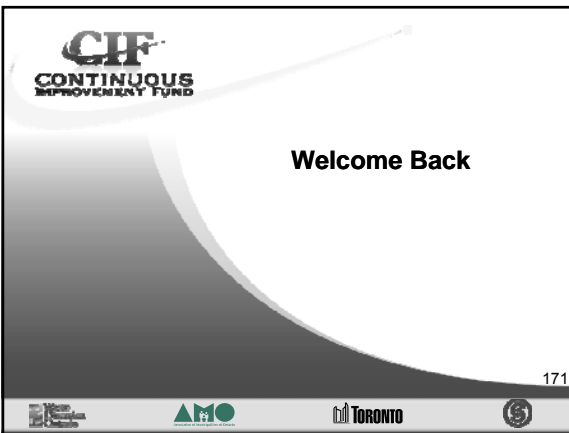
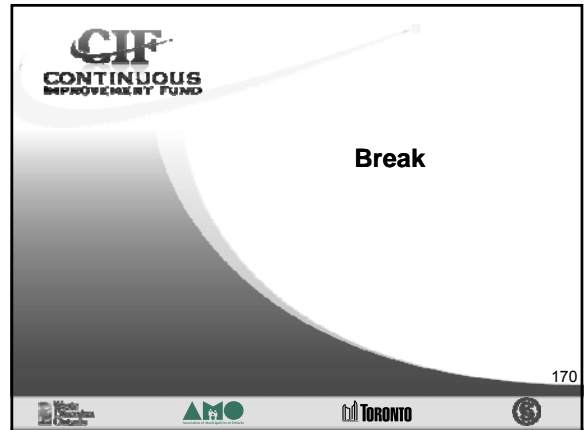
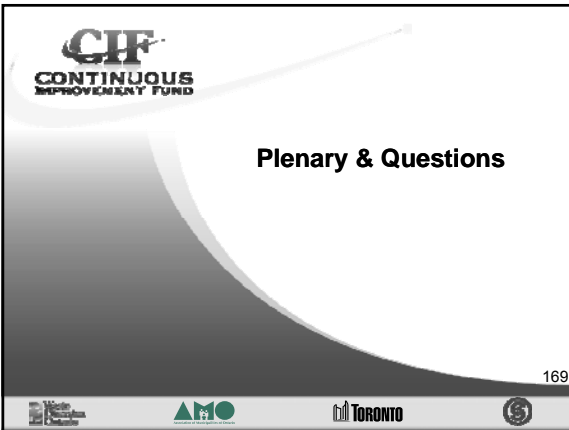
167

Discussion

1. What change do you see declining newsprint volumes & markets having on collection & processing?
2. What is the most significant change in the container stream in your community & what, if anything, should CIF do about it?
3. Is there a role for plastic bag based collection for overflow or as a primary collection container?
4. What area of innovation do you think CIF should focus on & why?



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Marketing Changes

- The markets now require clean, densified PS Foam that does not need to be washed
- To take advantage of this opportunity we will have to change our systems by densifying PS Foam
- These markets offer higher revenues, multitude of market choices, lower transportation costs; densification eliminates baling & also frees up baling capacity for other BB materials



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Collaborative Action

- WDO, CIF, SO & CPIA met immediately after CPRA closed its wash lines
- Established short term & long term objectives to make system changes
- This group has developed cost information on densification, completed markets research & issued communications to municipalities



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Highlights

Goals:

1. **Short term** - assist municipalities to market existing PS supplies
2. **Long term** - develop system changes for PS recovery with key stakeholders (WDO, SO, municipalities, end markets & operators)

Anticipated impacts:

1. Expand markets for PS Foam through densification
2. Quality improvements to access broader PS Foam end markets
3. Improved recovery for PS Foam

More information: jhruska@cogeco.ca or 416-930-1796

CPIA Website: www.plastics.ca



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Market Demand Is Strong for PS Foam

- Demand 60K to 120K tpy
- Decorative wall & architectural mouldings
- Markets will enter into long-term agreements also with equipment supply of up to 5 years



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Market Demand for PS Foam

- Polyframe/CPRA Port Hope operational:
 - accepting clean dry PS Foam that does not require washing (Hamilton, Orillia, York, Markham)
 - testing other communities curbside & depot materials as systems adjust sortation to foam only
- Export Markets Strong for PS Densified
 - no long term markets for bales - too light & costly to ship with average load weights of 6 tonnes
 - need to densify PS foam which is 90%-98% air
 - MRFs can achieve 16 to 20 tonne high value loads with densification



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What Needs to be Changed?

- Over 2M households have curbside collection of PS foam
- On-site densification is most cost effective way to process PS foam
- MRFs with limited space can densify off-site until they can retrofit their facility



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MRF Densification Model

- Los Angeles, California suburban single stream MRF
- System is a positive sort & secondary quality control before grinding – **essential for quality control**
- PS from bunker loaded via sort conveyor to grinder located under cat walk, PS Foam transported to densifier hopper



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Quality Requirements

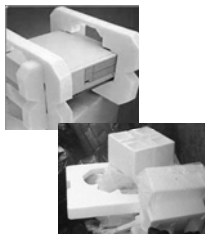
- CPIA developed Guidance Document as a reference for good practices in PS foam recovery
- Acceptable materials: clean, dry cushion packaging & food service containers bearing recycling code "PS6"
- Householders should be asked to remove food residues by rinsing all food containers.
- Tape & labels should be removed from all foam packaging



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PS Foam Targeted for Collection

PS Foam Cushion



Clean PS Foam Food

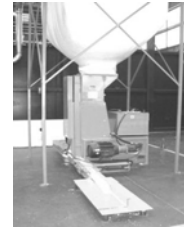


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Thermal & Cold Densifiers



Thermal



Cold

184

PS Foam Ingot from a Thermal Densifier



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PS Foam Blocks from a Cold Densifier



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Municipal Projects

- CPIA assessed 13 municipal programs—curbside & depots
- Recommended clean foam sort only, large foam & clean PS food foam
- CPIA facilitated connecting municipalities with various end markets for export & bale tests at CPRA
- CPIA & WDO CIF sent PS foam from MRF bunkers to markets for evaluation



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Results to Date

- PS Foam from MRF Bunkers
 - markets found samples clean & acceptable for densification in 12 of 13 communities
- Bale tests—mixed results at CPRA
 - MRF primary sorters find it difficult to keep non-PS foam out of PS bunkers
 - baling introduces contamination—dirt, cans, other plastics & paper
 - only way to ensure PS Foam quality is secondary quality sort before densification &/or baling



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Bale Sorts—Assessing MRF Changes To Sortation for PS Foam



Less than 1% Bale Contamination after MRF sortation modified

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New Developments

- WDO CIF
 - providing funding for PS Foam densifiers
- Asset Recovery Solutions (ARS)
 - exporting PS bales to Asia from Ontario MRFs
 - ARS looking to establish central densification
 - planning to establish on-site densification contracts but can also accept baled product



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Depot Pilots

- Markham & Sault Ste. Marie PS foam depots
 - densifiers to be operational in July 2010
- PS densification will provide materials to various end markets for testing
- BP identification to assist other municipalities with implementation will be available



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Summary

- Strong markets for densified foam
- Municipal curbside & depot PS Foam clean enough for densified foam markets
- WDO CIF has funding for PS densifiers
- Densification of PS Foam will expand markets

Call to action:


- Municipalities asked to examine opportunities to retrofit or plan for PS Foam densification at their MRFs or depots
- Please call us at CPIA for technical support along with your municipal support team at CIF




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More Information on PS Densification

- * WDO Report on the Densification of Post-Consumer Polystyrene Packaging
 - www.wdo.ca/cif/pdf/reports/130/130_report.pdf
- * CPIA Report on Densification of Post Consumer Expanded Polystyrene
 - www.plastics.ca/Recycling/ResidentialPlasticsPackaging/Polystyrene/index.php
- * CPIA PS Foam & PS Rigids Markets List
 - contact Joe Hruska

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 **CONTINUOUS IMPROVEMENT FUND**

Welcome

Randall Roy, Sault Ste. Marie
Waste Diversion Supervisor
&
John Giles, City of Kingston
Solid Waste Manager


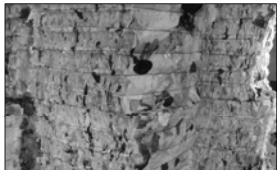
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It's All About Volume!




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To Densify or to Bale...?

It's About the Markets

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 **CONTINUOUS IMPROVEMENT FUND**

Questions



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 **CONTINUOUS IMPROVEMENT FUND**

Mixed Rigids & Film Issues

Andy Campbell
CIF

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Speakers

- * Geoff Love, Love Environment
- * Lyle Clarke, Stewardship Ontario & Sherry Arcaro, StewardEdge



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Update on CIF/Stewardship Ontario Plastics Market Development Projects

Geoff Love
Love Environment

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Project Highlights

- * Project goal:
 - to improve markets for #3-7 plastics
- * Anticipated impacts:
 - NAPCOR – create a market for thermoform PET
 - EFS – expand mixed rigid & BB film capacity (>10K tpy)
 - Entropex – pilot large scale mixed rigids re-processing (up to 30K tpy if successful)
- * More information:
 - loveenvironment@routcom.com & www.wdo.ca/cif/municall.html



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NAPCOR Project (1)

- * Market driven – thermoform PET projected to grow to 50% of PET bottle production:
 - clamshells, cups, trays, boxes & lids
 - 1.4B lb PET packaging in 2008 in NA; 153M lb reprocessed PET (RPET) bottles used in sheet
- * CIF/SO/Napcor shared project
 - 600K lb shipped to 9 US reclaimers
 - Waterloo MRF & EFS have been lead Canadian participants in project
 - technical challenges dealing with sheet material – e.g. incompatibility of bottle/thermo bale forms.



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NAPCOR project (2)

- * 3 options being explored:
 - dedicated thermo PET bale (Waterloo preparing bale specs – first of its kind in NA);
 - mixed PET bottle bale (2/3 – 1/3 ratio as possible target) &
 - thermoforms from mixed rigid stream (EFS – likely lowest value stream)
- * Stay tuned:
 - mschedler@napcor.com & www.wdo.ca/cif/municall.html



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EFS Project

- * SO & CIF have granted/loaned \$2.25M to EFS (in 3 stages) to:
 - increase BB film capacity
 - increase mixed rigid capacity
 - support development of high value end markets
- * Phase 1 installation completed
 - shredder/silos to increase immediate capacity to >3K tonnes (film & rigid)
- Phase 2 move to larger location mid 2011; long term target > 11K tpy (both streams)



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EFS

- * Short term target of adding 1K tonnes
 - trial bales from Ottawa, Peterborough, Northumberland, Kingston
 - testing for polyolefin content & contaminants
- * Mid term target to add 4K more tpy
 - initial focus on municipalities that collect both film & rigids (for shipping efficiencies)
 - build capacity to manage full range of #1-7 plastics
- * Long term – is a successful 10-15K tpy plant for film/rigids replicable in other parts of the province?



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Entropex Project

- * SO has funded Entropex to develop a 1K tonne mixed rigid plastics pilot plant in Sarnia, Ontario
- * Five partner municipalities are providing pilot test materials (to test different compositions)
 - Hamilton, Guelph, York, Ottawa Valley, Sudbury
- * Draft bales specs being developed (with CIF support)
 - anticipate all types of thermoform containers; no film; no expanded polystyrene



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Entropex

- * Phase 1 pilot on schedule to be completed by September 30, 2010
- * A successful pilot will lead to a decision by Entropex, SO & other funding partners to proceed with proposed mixed rigid re-processing facility
- * CIF & SO working with Entropex to determine possible MRF upgrade needs in 5 pilot partner municipalities



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CIF Other Plastics Activities

- * SO adding mixed plastics audit elements onto sorts already planned for Toronto, Durham, Quinte & Peel
 - state of the art resin gun purchased by CIF to support mixed plastics audits
- * CIF & SO working with Entropex & EFS to determine MRF upgrade needs to meet long term supply challenge



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Next Steps

- * Participate in the on-going CIF plastics projects call (EFS focused call this summer – timing TBD)
- * For Napcor project: mschedler@napcor.com
- * For EFS: martin.vogt@efs-plastics.ca
- * For Entropex: kbechard@entropex.com
- * For Geoff: loveenvironment@routcom.com



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Stewardship Ontario Activities to Increase Recycling of Mixed Plastics

Lyle Clarke
Stewardship Ontario

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Challenge for Plastics Market Development Projects



- * Currently #1 –7 plastics sent to landfill directly or as residual, or to overseas markets
- * Markets & re-processing capacity not yet in place to handle full range of mixed #1–7 plastics
 - but in sight
- * SO & CIF must ensure sufficient supply of mixed rigid plastics & film from municipalities to Entropex & EFS as their own & their customers capacity develops
 - be ready to “turn on the tap”



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What Stewardship Ontario Will Do

1. Facilitate supply arrangements between municipalities & re-processors (i.e. EFS & Entropex)
2. Buy mixed rigid plastics #1-#7 currently sent overseas or to landfill
3. Invest (with CIF) in developing & testing P&E materials to increase the capture of #1-#7 plastics or to add them to a program
4. Mitigate risk to municipalities of buying high recycled content BB to establish track record
5. Work with stewards & manufacturers to increase demand



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How Stewardship Ontario Will Do This

1. Working closely with CIF staff to identify needs & initiate discussions
2. Authorized StewardEdge (SE) & CIF staff to negotiate terms with interested municipal staff for mixed plastics on a case by case basis
3. Authorized SE & CIF staff to develop an agreement with 1 or more municipal programs to develop & test P&E materials
4. Tasked SE & CIF staff to investigate how to implement a guarantee for replacing first generation, high recycled content bins during warranty period



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If You are Interested...

- * Contact one of SE or CIF staff to discuss:
 - Sherry Arcaro
 - 416-594-3456, sarcaro@stewardedge.ca
 - Mike Birett
 - 905-936-5661, mbirett@wdo.ca
- * Other people working on plastics projects
 - Guy Perry (StewardEdge - SO project lead)
 - Clayton Sampson
 - Geoff Love
 - Andy Campbell
 - John Dixie (plastics audits)



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Next Steps (1)

1. Initial contacts with ~ 40 municipalities to discuss plans & review:
 - generation & recovery data
 - timing of market project capability (i.e. Entropex & EFS);
 - requirements for collection & sorting infrastructure to meet market specifications;
 - contract timing
2. Undertaking new plastics audits – if you have plans talk to us



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Next Steps (2)


3. Developing a demonstration program with municipalities that currently collect expanded list of plastics
 - Peterborough City & County, Northumberland & City of Kawartha Lakes “regional campaign approach”
 - develop P&E materials targeted to increase capture of mixed plastics
 - SO buys material resulting from campaign
 - material directed to one of local projects
4. Working with other MRF operators to capture all mixed rigids (excl. PET & HDPE bottles)
5. Discussing with other municipalities interested in adding expanded list of plastics



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CIF's Plastic Vision


- * Objective is to increase tonnage but need a complete supply chain management approach
 - collection
 - MRF processing
 - material reprocessing
 - product development
 - value added product produced
- * CIF will assist municipalities & work with Stewardship Ontario

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 **Panel Discussion & Questions**

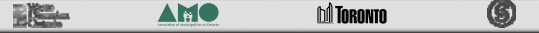
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 **Over the Next Few Months**


Andy Campbell, CIF


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How can CIF assist you?

- * Review WDO best practice questions & look for program deficiencies & gaps
- * Prepare for municipal role if Extended Producer Responsibility is legislated
- * Increase plastics recovery & processing

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 **Thank you!**

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