

Welcome Back...



Afternoon Agenda

- Working together for greater success
- Waste reduction planning pays off
- Break
- Cross-Canada: The Changing Tides of EPR

Working Together

John Giles
City of Kingston

‘Working Together’, What It Means

- ClF has made significant capital investments intended to positively impact the long term efficiency & effectiveness of the BB Program
- The MRF project in SW Ontario represents one of those investments
- It is a test case which explores the merits of a regionalized system, or, multi-municipal cooperation

‘Working Together’, What It Means

- The facility has now been operational for 20 months
- London has partnered with 6 surrounding municipalities
- This panel provides an opportunity to learn more about their efforts to lower / control costs
- Questions about the results shared & how they can be adopted in your region are welcome at the end of the presentations

Examples of 'Working Together'

Topics addressed by this panel include:

- Cost Savings
- Improved ability to influence & adapt to market changes
- Increased transparency
- Harmonization
- Increased waste diversion
- Savings leveraged to improve WM services & accelerate implementation of BPs

Working Together Speakers

- Wesley Abbott, City of London
 - Benefits of Working Together in South Western Ontario
- Lloyd Perrin, Central Elgin
 - Multi-municipal Co-operation: Experience in Central Elgin
- Rod Tapp, Town of Aylmer
 - Multi-municipal Co-operation: Experience in the Town of Aylmer

Benefits of Regionalization in South-Western Ontario

Wesley Abbott
City of London

London MRF Program



- Project goal
 - Develop a regional Blue Box recycling program
- Anticipated Impacts
 - Reduce recycling costs
 - Increase diversion rates
- More information
 - wabbott@london.ca/www.london.ca

Manning Drive Regional MRF

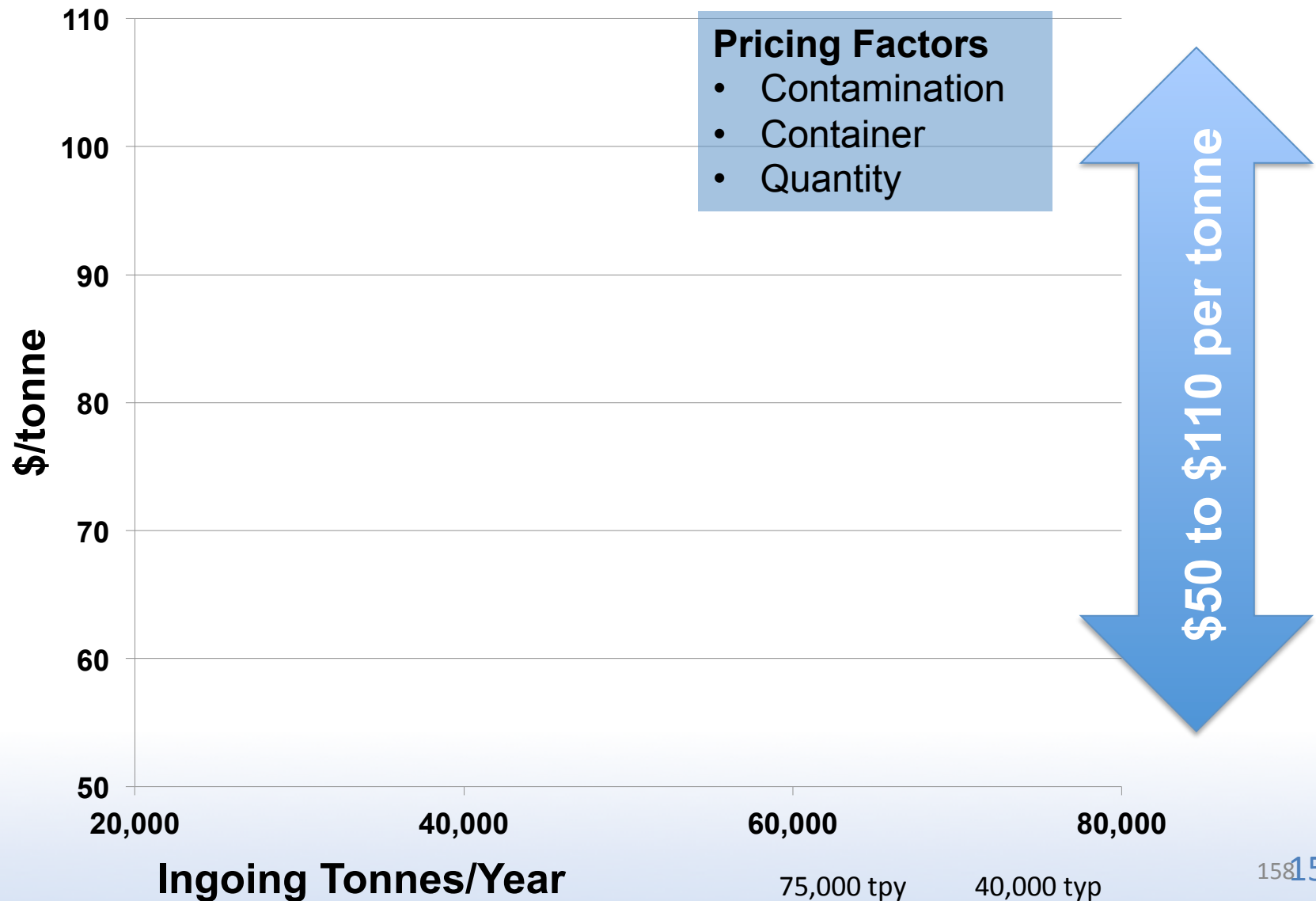
- Open 20 months
- Two stream
- 75,000 tpy
- 3% residue



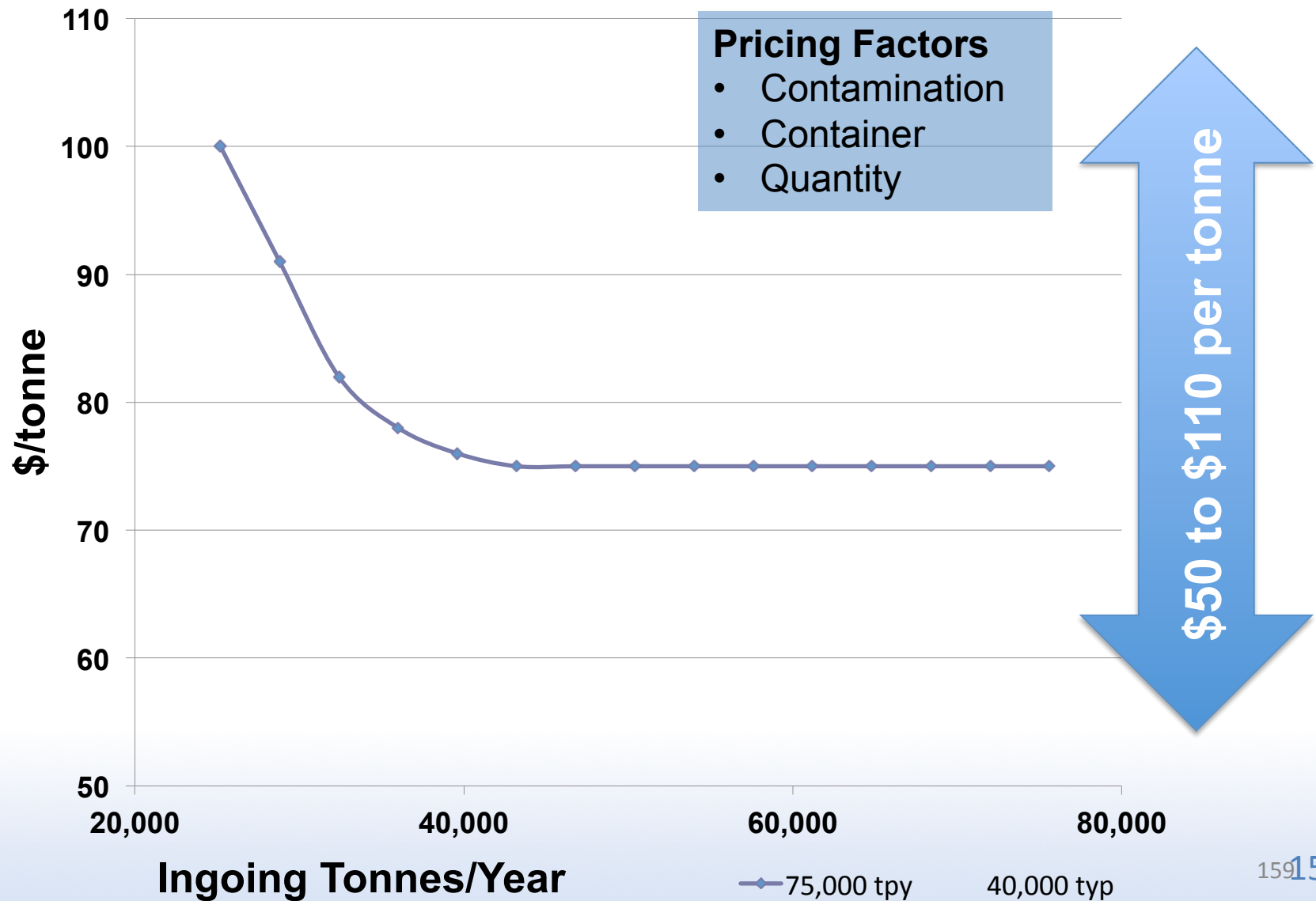
Manning Drive Regional MRF



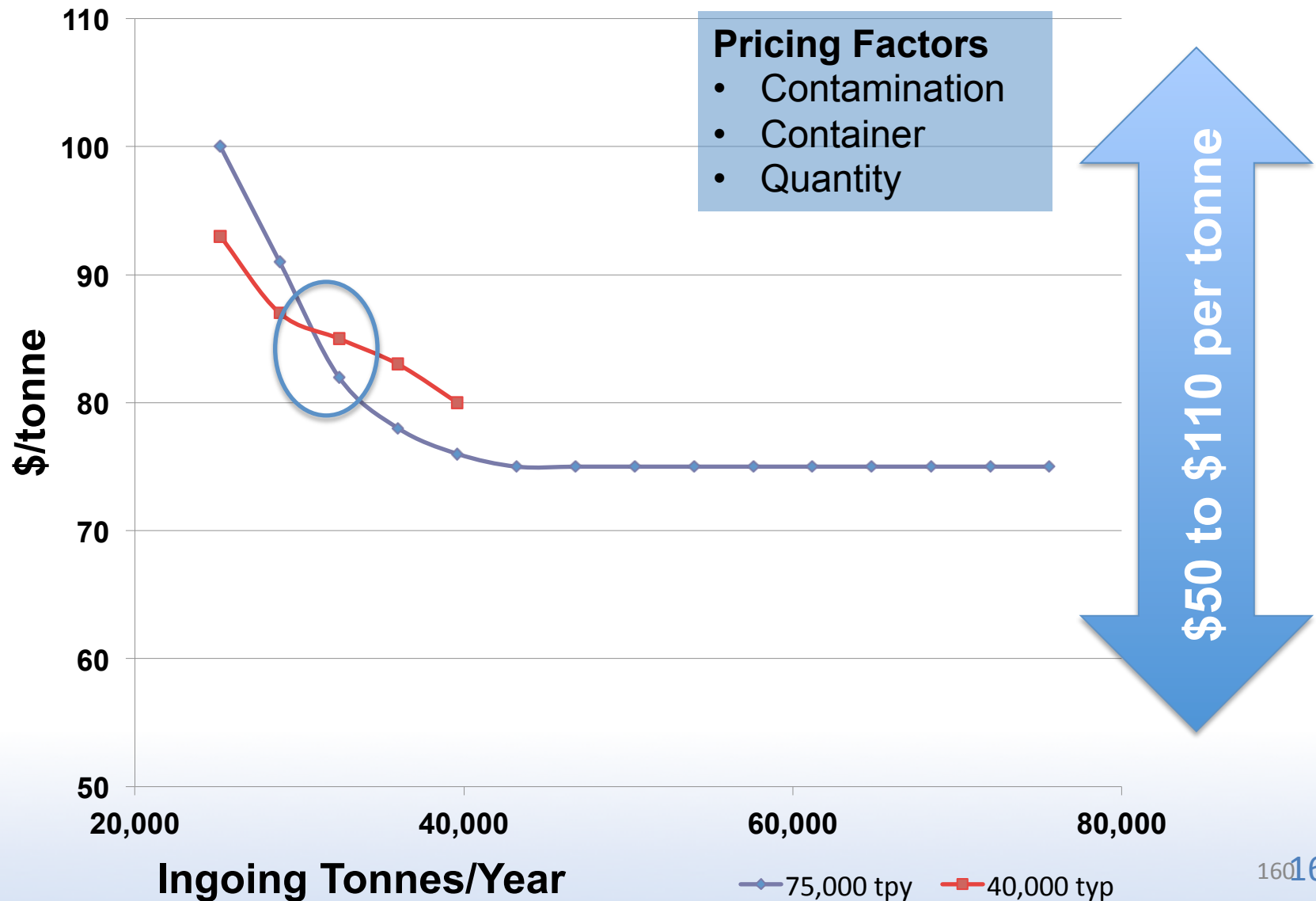
Financial Savings



Financial Savings



Financial Savings



Financial Savings

- More tonnes – \$10 to \$20/tonne
- Larger Facility – \$3 to \$5/tonne
- London savings



\$550,000/year to \$600,000/year

Increased Competition

- Extra bidder for RFPs/Tenders
 - e.g., Stratford, Sarnia. St. Thomas
- Operations Contract
 - e.g., HGC Management
- Easier for small municipalities to split collection/
processing

Adapt to Marketplace

- Changing materials



- Changing markets



Coupons for Hunger

Regionalization

In Conclusion

- Financial savings
- Increased competition
- Adapt to the Marketplace

Multi-municipal Co-operation: Experience in Central Elgin

Lloyd Perrin

Municipality of Central Elgin

Multi-municipal Co-operation: Experience in Central Elgin



- Goal:
 - Generate revenue that could be used to implement new Waste Management services.
- Anticipated impacts:
 - No increase in overall Waste Management Budget AND greater customer satisfaction by introducing new programs.
- More information:
 - lperrin@centralelgin.org/www.centralelgin.org

Benefits – Cost Savings

- 2011 partnership with neighbours for waste & recycling collection contract
 - Township of Malahide, Municipality of Bayham
- Benefits:
 - Joint marketing for smaller municipalities – better prices
 - With London to process recyclables - expanded pool of collection contractors
 - no need to have processing ability (MRF)
- Result: decrease collection cost ~\$91,500/yr or 15%/yr

Benefits – Reinvestment of Savings

- Savings from new contract reinvested into Waste Management program & accelerated implementation of Best Management Practices
- Implemented spring & fall curbside collection program from leaf & yard waste in urban areas (~\$78,000 annual cost)
 - permitted municipality from banning leaf & yard waste (including grass clippings) from our solid waste stream
- Provided new large capacity recycling container free of charge to each resident



Benefits – Increase Public Support for Waste Management Programs

- Provided long-desired programs for ratepayers
 - e.g., curbside pickup of leaf & yard waste
- Partnerships between municipalities helped drive down costs
 - Reduced advertising costs
 - Reduced costs of BB
- “Partner” municipalities “trumpeted up” relationship
 - Public commended us on working together



Benefits – Additional Items

- Partnership extended beyond BB
- London exploring expanded depot services & let partners use London facilities for MHSW, electronics
 - fee for service
- Partner municipalities (e.g., Aylmer, Malahide, Central Elgin & Thames Centre) exploring bulk composter purchase
- “MyWaste” app for municipalities
 - no cost for residents
- Thames Centre participating in shared landfilling with London
 - improve operating efficiency & save costs



“MyWaste:” Central Elgin

Benefits – Increased Transparency

- Previous contracts for municipalities included \$/hh for recycling collection, processing & marketing
 - Revenue was kept by contractor
- Current arrangement
 - \$/hh for recycling collection
 - \$/tonne for processing & marketing of recyclables
 - Revenue **shared** on a \$/tonne with partner municipalities

Multi-municipal Co-operation: Experience in Aylmer

Rod Tapp
Town of Aylmer

Multi-municipal Co-operation: Experience in Aylmer



- Goal:
 - Improve programing, increase diversion & generate revenue from commodity sales.
- Anticipated impacts:
 - Offset costs of improved programming with revenues & reduce (where possible) expenses by sharing resources.
- More information:
 - rtapp@town.aylmer.on.ca/www.aylmer.ca

Benefits – Increased Access to Resources

Striving for Increased Diversion:

- Decreased bag limit from 4 bags to 3 bags
- Increased collection from bi weekly to weekly
- Implementation of Partial Pay System
- Expanded the list of targeted materials
- Moved to a larger BB to ensure adequate storage capacity



Benefits – Increased Access to Resources

Blue Box Materials Accepted Under Old Program	Blue Box Materials Accepted Under New Program London MRF as of May 2012
<p><u>MIXED PAPER FIBRES</u></p> <ul style="list-style-type: none">• Newsprint• Mixed Household Paper• Cardboard	<p><u>ADDED</u></p> <ul style="list-style-type: none">• Cardboard – including pizza & other corrugated boxes.• Boxboard – including molded pulp & excluding waxed paperboard.
<p><u>MIXED CONTAINERS</u></p> <ul style="list-style-type: none">• Aluminum & Aluminum Foil• #1 PET• #2 HDPE• Glass• Steel	<p><u>ADDED</u></p> <ul style="list-style-type: none">• #3 through # 7 plastics• Polycoated Paperboard Containers• Spiral Wound (Cardboard) Cans• Steel – empty paint cans, empty aerosol cans.

Benefits – Increased Access to Resources

- Joint P&E Campaign
- \$1/HH (i.e., the Best Practice cost)

Recycling makes a difference.

We are pleased to provide you with this new **bigger** Blue Box.

Now you can recycle even more items.
Keep them separated: Please use this new box for containers and another Blue Box for paper recyclables.

Paper **Containers**

We've improved our recycling program to include: more plastics, aerosols and cardboard cans.

Communities recycling together

Thames Valley University
www.thamesvalley.ac.uk
0181 885 7144

Central Essex
www.central-essex.org.uk
01206 880000

Middlesex
www.middlesex.gov.uk
0181 753 1144

Barnet
www.barnet.gov.uk
0181 851 1000

Dutton Church
www.duttonchurch.org.uk
01753 851 1000

Adrian
www.adrian.co.uk
01753 851 1000

London
www.london.gov.uk
01753 851 1000

Keep them separated

Use two Blue Boxes

Paper Products

Magazines, catalogues, phone books, soft & hard cover books (remove hard covers)

Household paper

Boxes, egg cartons, tubes (flatten)

Newsletters, flyers

Cardboard boxes: Flatten & place large pieces between Blue Boxes. Bundle large quantities in stacks no larger than 75cm x 75cm x 20 cm (30" x 30" x 8")

Containers

Plastic clamshell containers (No Styrofoam™)

Aerosol cans (empty)

Cartons & drink boxes

Steel & aluminum cans, metal paint cans (empty), aluminum foil and pie plates

Glass bottles & jars

Spiral wound (cardboard) cans

Plastic bottles, tubes, jugs

Containers

Recycling makes a difference. Thank you!

No wrapping paper

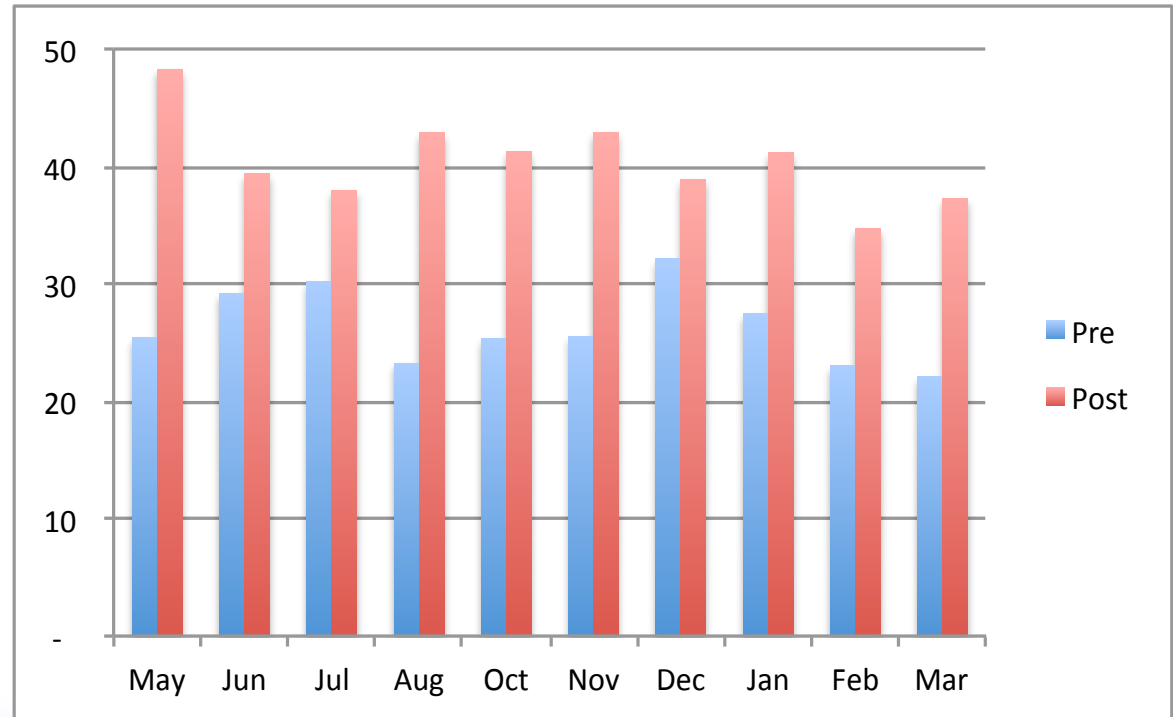
Paper Products

Containers

No Styrofoam™, bubble wrap, plastic bags or film

Benefits – Harmonization

- BB program harmonization in this region has increased diversion for Aylmer
 - 54% increase



Benefits – Improved Planning & Coordination

- Launch of a wider network of municipalities that gets together to talk about shared concerns
- Facilitates sharing of knowledge, expertise & resources
- Goes beyond talking
 - coordinated planning & work-load sharing enables small municipalities to make changes not previously possible

Benefits – Accelerate BP Implementation

- Moved to separate collection & processing contracts
- Increased BB capacity
- Implemented comprehensive P&E campaign
- Carry over to other WM services working on the joint purchase of composters



Questions?



Waste Reduction Planning Pays Off

Alec Scott
AMO/WDO

Waste Reduction Plans

- Summary document:
 - Lists all the waste management services offered
 - Identifies the goals & objectives for each services
 - Outlines the strategies to be undertaken to achieve the goals & objects
 - Provides timelines & gives consideration to the resources needed roll out the strategies
 - Describes how these efforts will be measured & monitored
 - Notes when the results will be reported & shared

Results

- Most municipalities now have a waste recycling plan
- “How to” templates are available on the CIF website
- CIF is shifting focus from developing/writing plans to implementing, measuring & monitoring results, reporting outcomes & continuous improvement

Supporting Implementation

- Throughout 2013, CIF will provide implementation support through:
 - The October 2013 course will focus on developing practical, easy-to-use measuring & monitoring plans
 - \$75,000 in 2013 Centre of Excellence to assist municipalities in developing additional programs to improve the management of curbside collection, promotion & education activities & MRF residue

Speakers

- Sherry Arcaro, Stewardship Ontario
 - The Evolving Blue Box in Ontario – Part 2
- Janet Robins, Robins Environmental
 - Sudbury First Nation Recycling Program Implementation Evaluation
- Vanessa Bligdon-Bernicky, Town of Smiths Falls
 - Waste Reduction Strategy Planning in Smiths Falls
- Derek Ochej, City of Kingston
 - Waste Reduction Strategy Planning in Kingston

The Evolving Blue Box in Ontario – Part 2



Sherry Arcaro

Director of Field Services

What Has Changed?



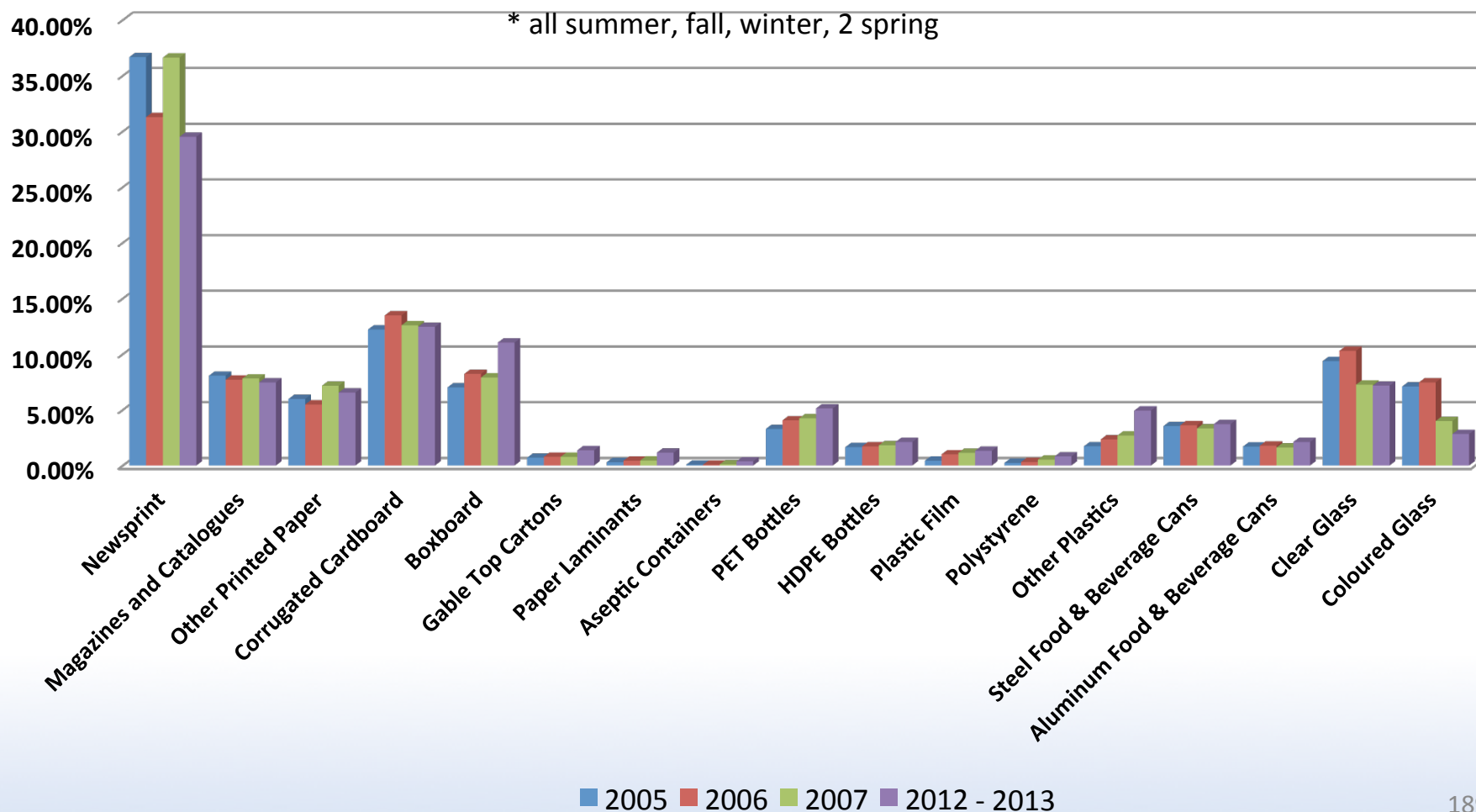
2012 Data Gathering Projects

- Partnership between SO, municipalities & CIF
- 4 season Curbside Waste Composition studies – 7 municipalities, almost complete!
 - Last series completed 06/07
- Total 2012 study costs >\$546,000
- 2013 MRF Material Composition Studies
 - RFQ to go out this week, 10 municipal partners
 - New two season process



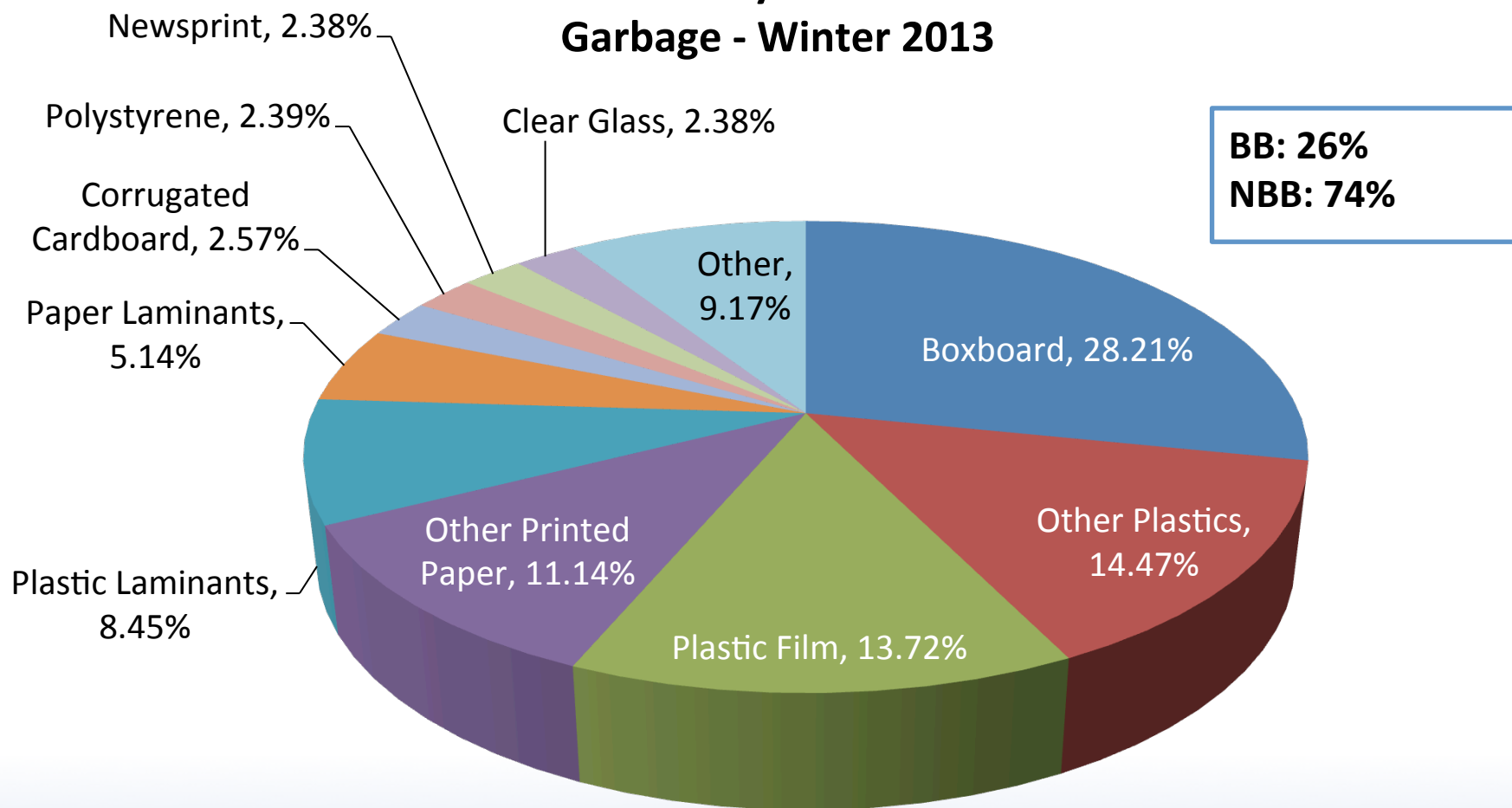
What's in the Box?

Share by Material Recycling - All Seasons 2005 to 2012-2013 audits



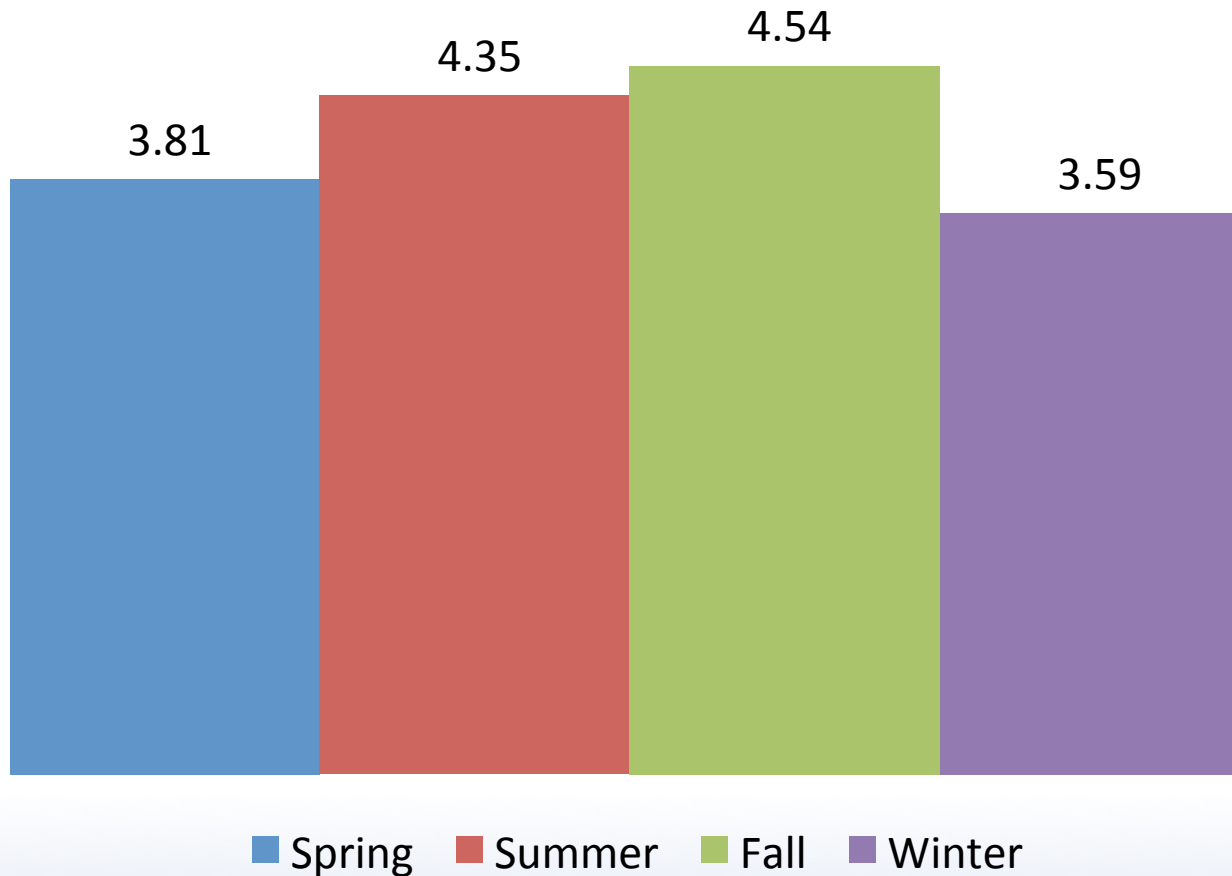
What are We Missing?

**Share by Material
Garbage - Winter 2013**



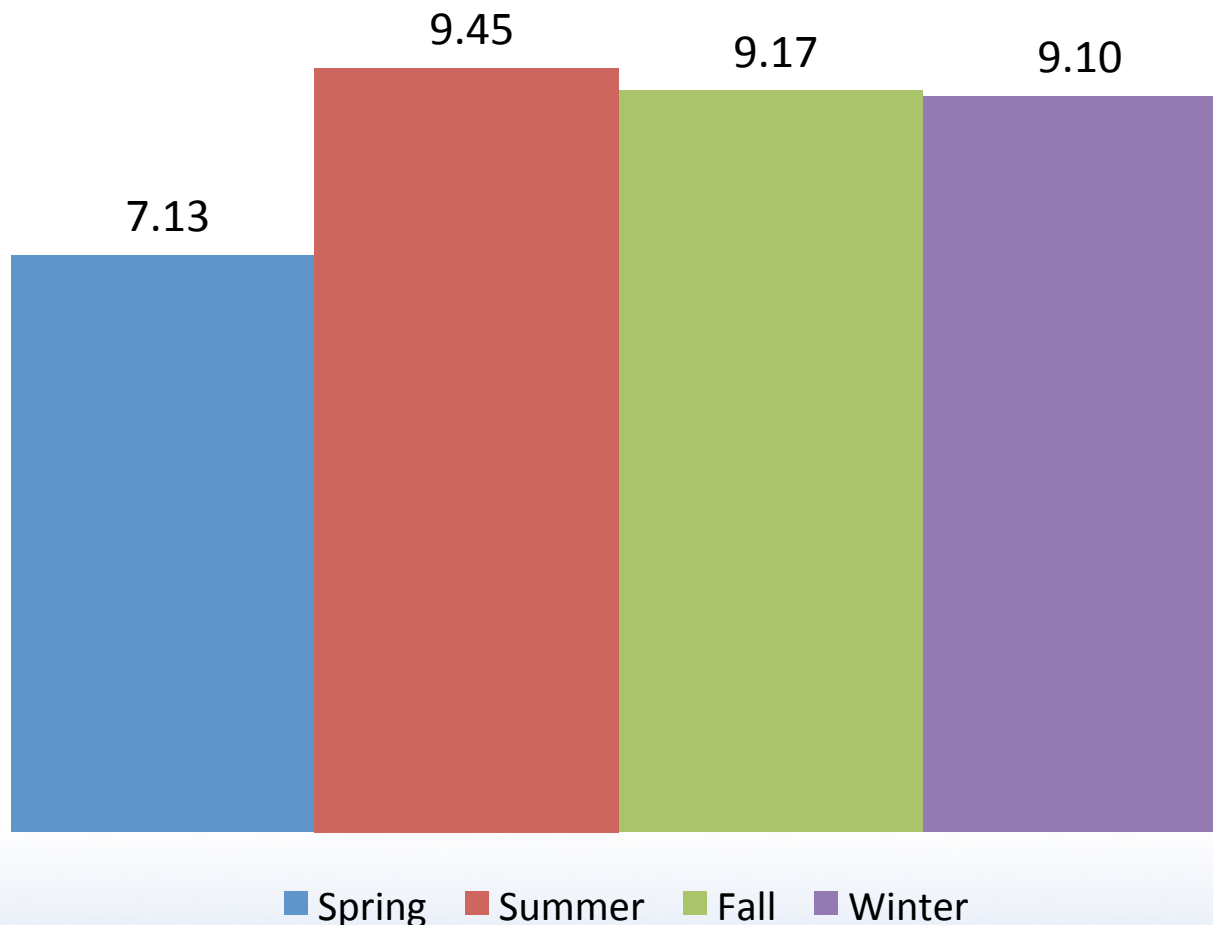
Waste Generation – Recycling Stream

**Recycling Generation Average
KG per SF HH per Week (2012-2013 audits)**



Waste Generation – Garbage + Organics Streams

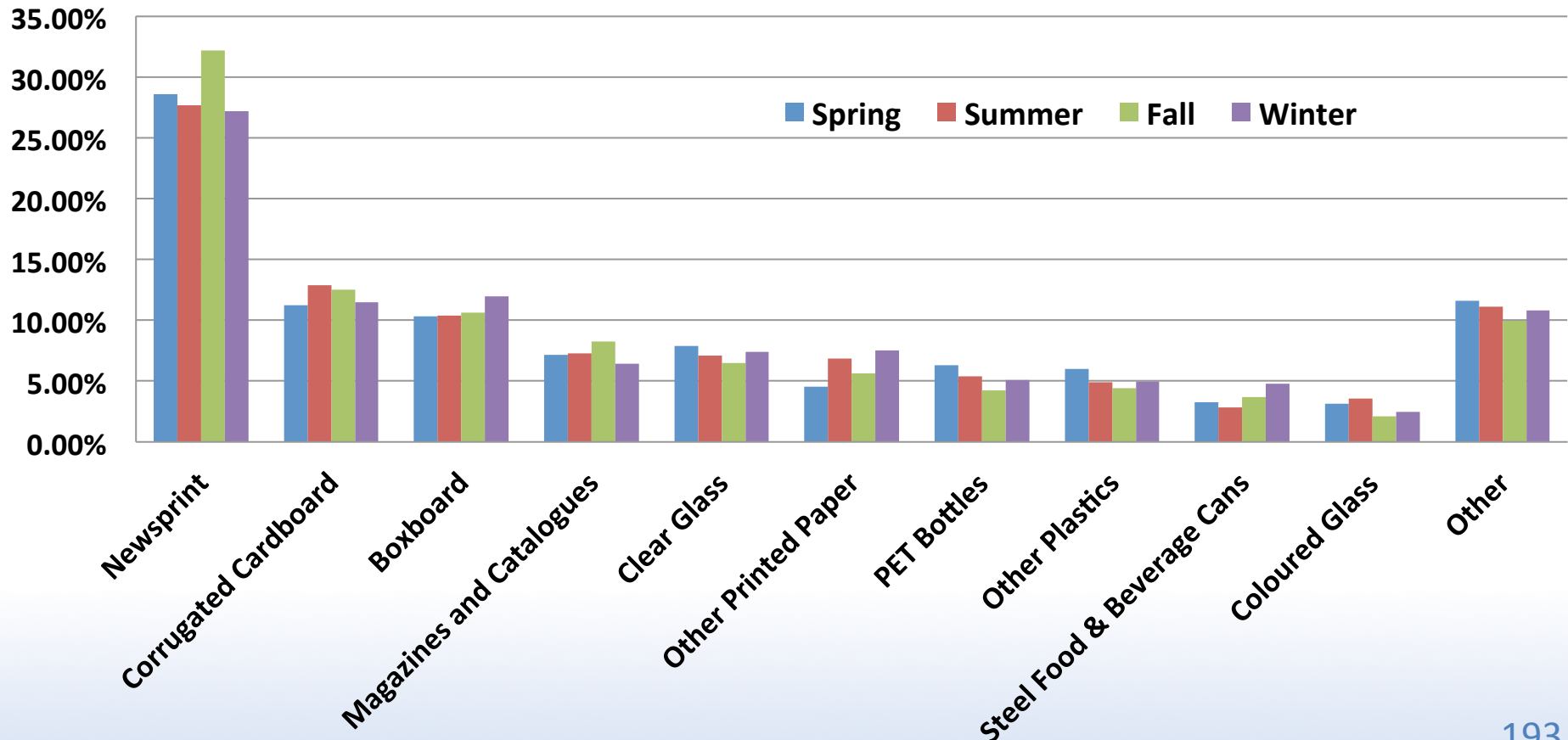
**Garbage + Organics Generation Average
KG per SF HH per Week (2012-2013 audits)**



Seasonality

BB: 96%
NBB: 4%

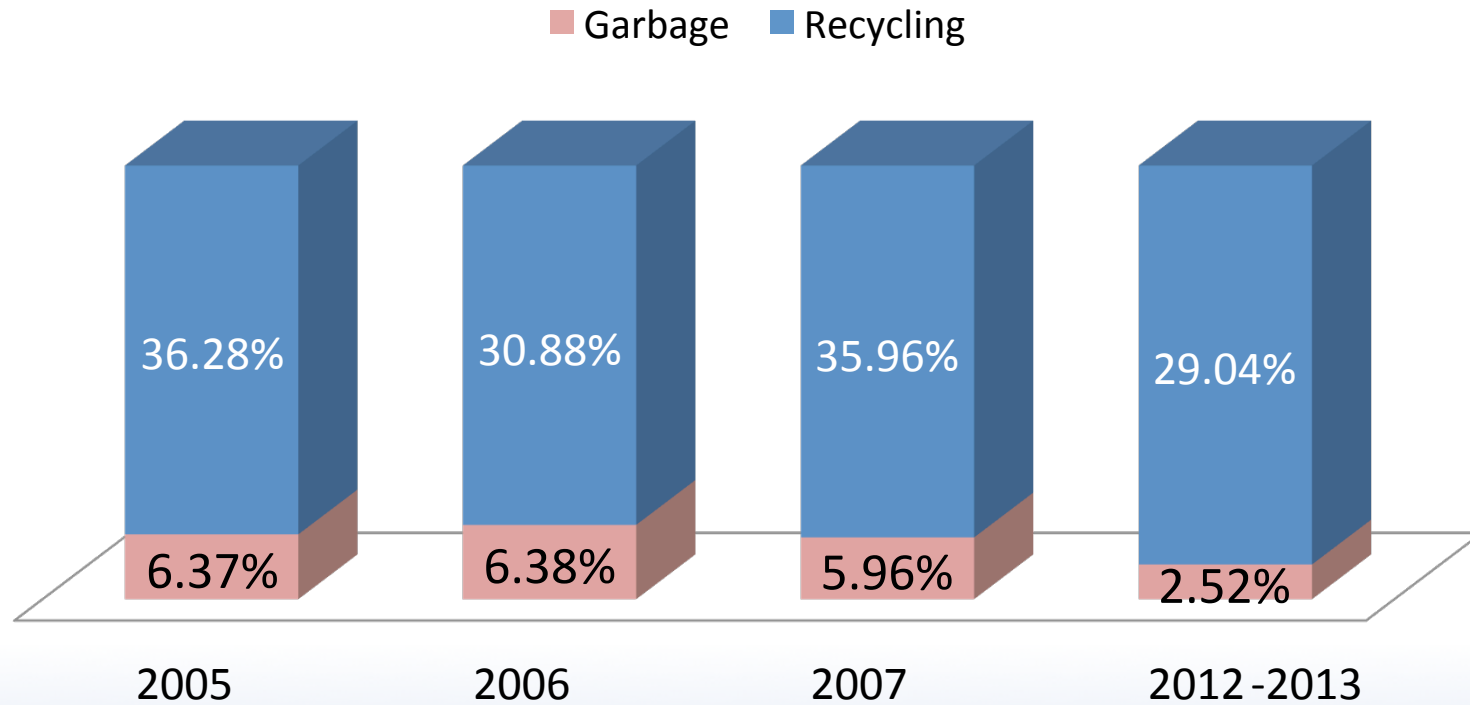
Share by Material Recycling - All Seasons 2012-2013 Audits Top 10 Materials



Newsprint trend

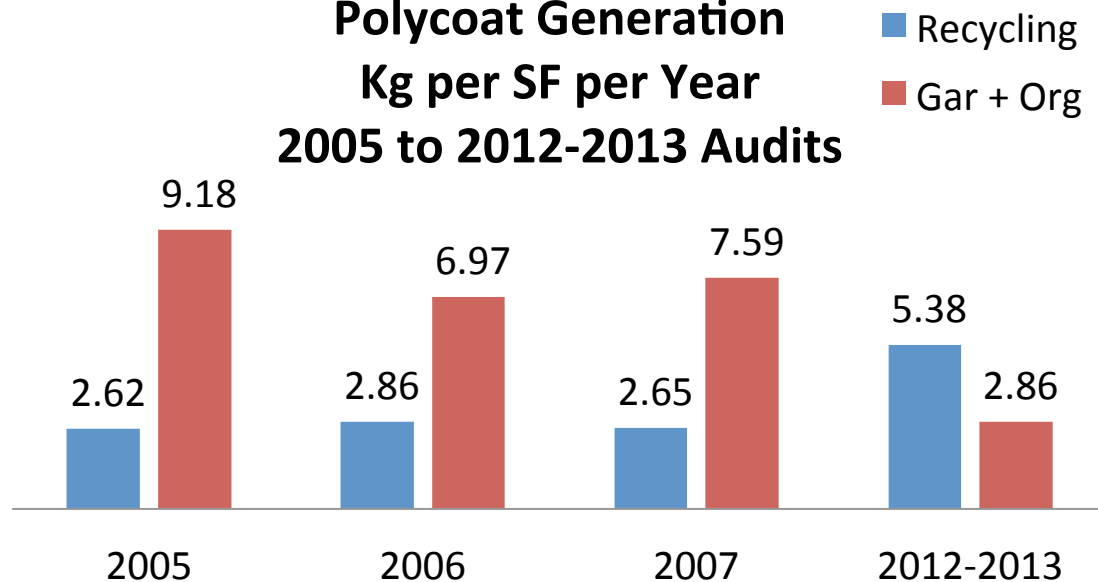
Newsprint % Share 2005 to 2012-2013 trend by Stream

CAGR
Recycling -3%
Garbage -12%



Polycoat

**Polycoat Generation
Kg per SF per Year
2005 to 2012-2013 Audits**



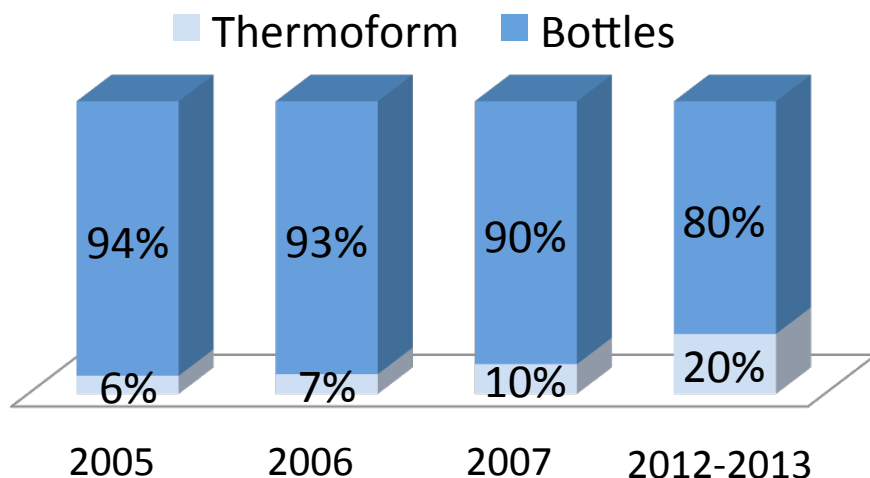
Polycoat bale composition*

Bale	Polycoat	Other
Mixed Fibres	3%	97%
ONP #8	1%	99%
Polycoat	92%	8%

*2012 Bale Audits

The Emergence of PET Thermoform

PET found in recycling stream by year



CAGR
Bottles -2%
Thermoform 18.7%

Mixed Plastic & PET (mixed) bale composition*

Bales	PET - Thermoform	PET - Bottles	Other
Mixed Plastic	11%	5%	84%
PET (mixed)	8%	89%	3%

Progress

- PET thermoform in bottle bales
 - Current average ratio is 8%
 - At least 3 sustainable markets in N.A.



Problem-solving

- Full wrap labels
 - Why use them?
 - Made of PVC, PP & PET-G

2008-2010 – Flavoured water segment down 2% overall



* Source – Nielson Consumer Study completed for Eastman, 2010

You Decide...



Looking for a Solution...

- Full Wrap Label Consortium

- Issues to be managed:

- Identification of PET bottles
 - Removal of labels from bottles
 - Separations of flake
 - Ink Bleed

- 3 meetings to date (Aug, Nov, Feb)

- 30 companies involved, 3 reclaimers plus APR

- Potential solutions focused at reclamation processes



Questions?

Sherry Arcaro

Director of Field Services

Phone: 416-725-3156

Email: sarcaro@stewardshipontario.ca



Sudbury First Nation Recycling Program Implementation Evaluation

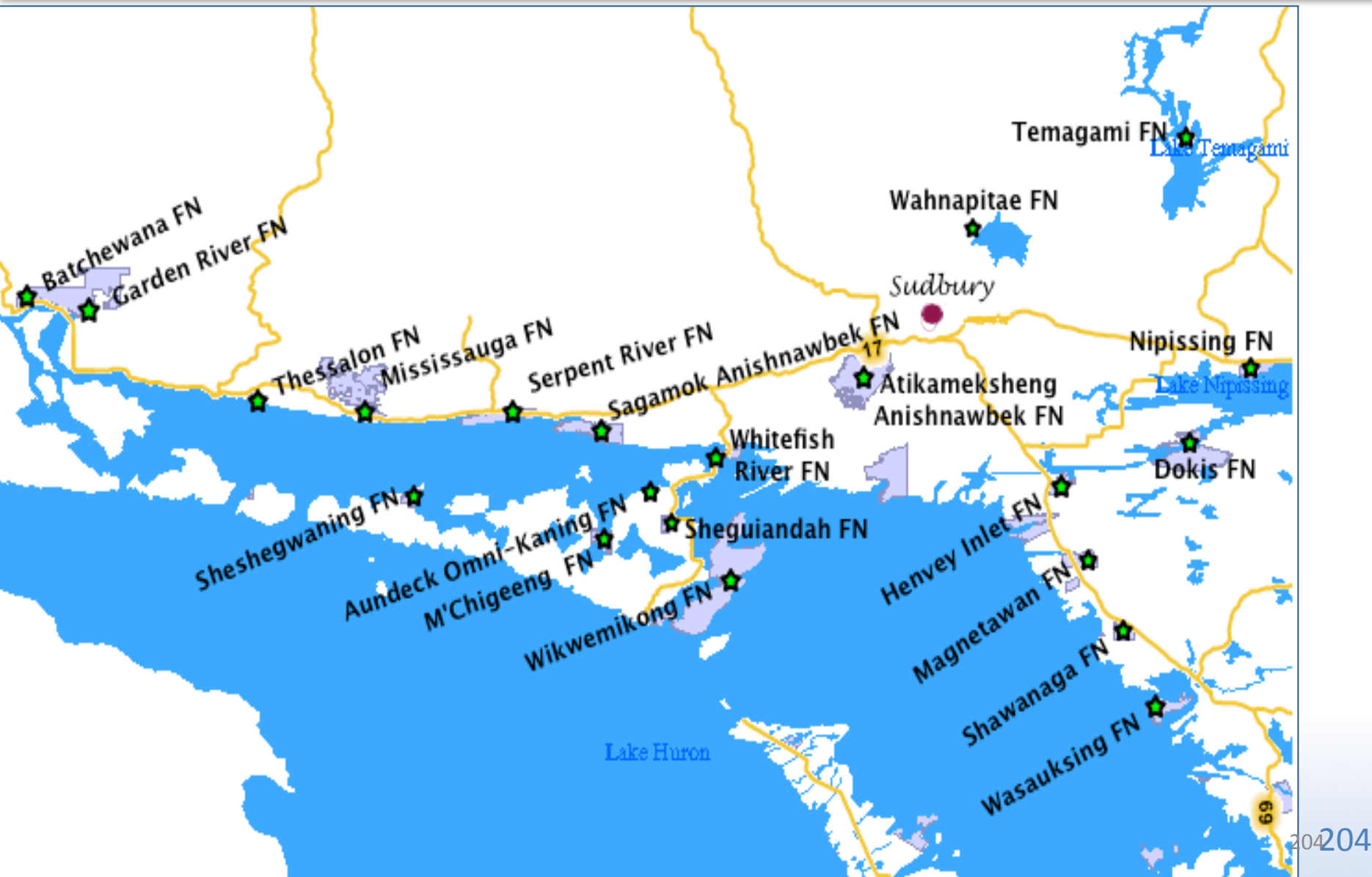
Janet Robins
Robins Environmental
CIF Project #331

First Nation Recycling Program Evaluation Project

Project Highlights:

- Project goal: to assist 21 First Nations Communities in Sudbury area establish or improve recycling programs within their community
- Anticipated impacts: increase participation in recycling programs & meet best practices
- More information:
 - robins.environmental@sympatico.ca
 - www.robinsconsulting.ca (website under construction)

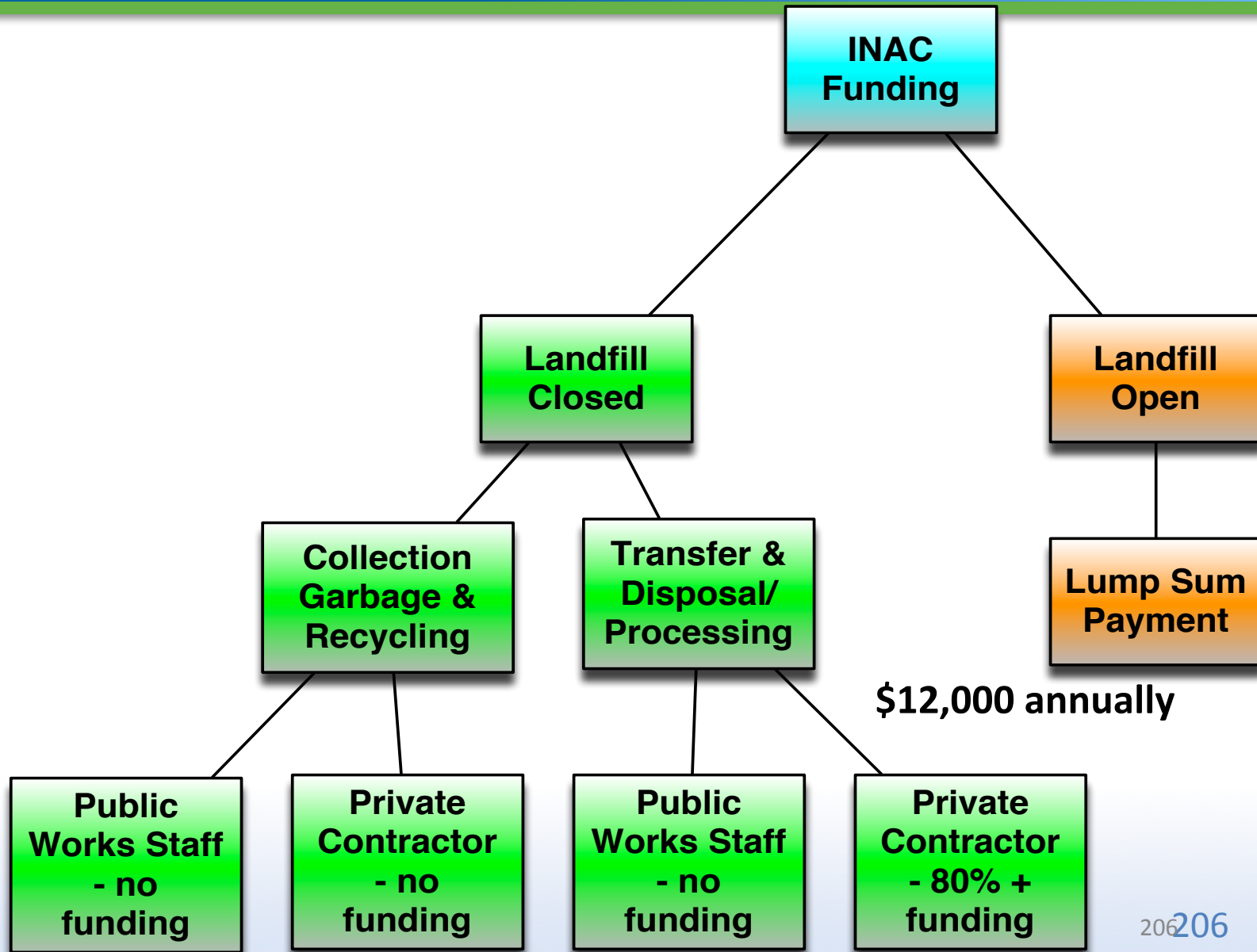
First Nation Recycling Program Evaluation Project



First Nation Recycling Program Evaluation Project

- Why this project?
 - Almost half (9 of 21) of the FN communities had no access to recycling & wanted to implement a cost effective program
 - Most of the FN communities (6 of 11) with recycling offered a depot & wanted to explore curbside recycling
 - The remaining with curbside recycling wanted to increase participation & capture rates
 - Funding is very challenging & depends on many factors
 - FN communities rely on INAC (now AANDC) funding for waste management

First Nation Recycling Program Evaluation Project

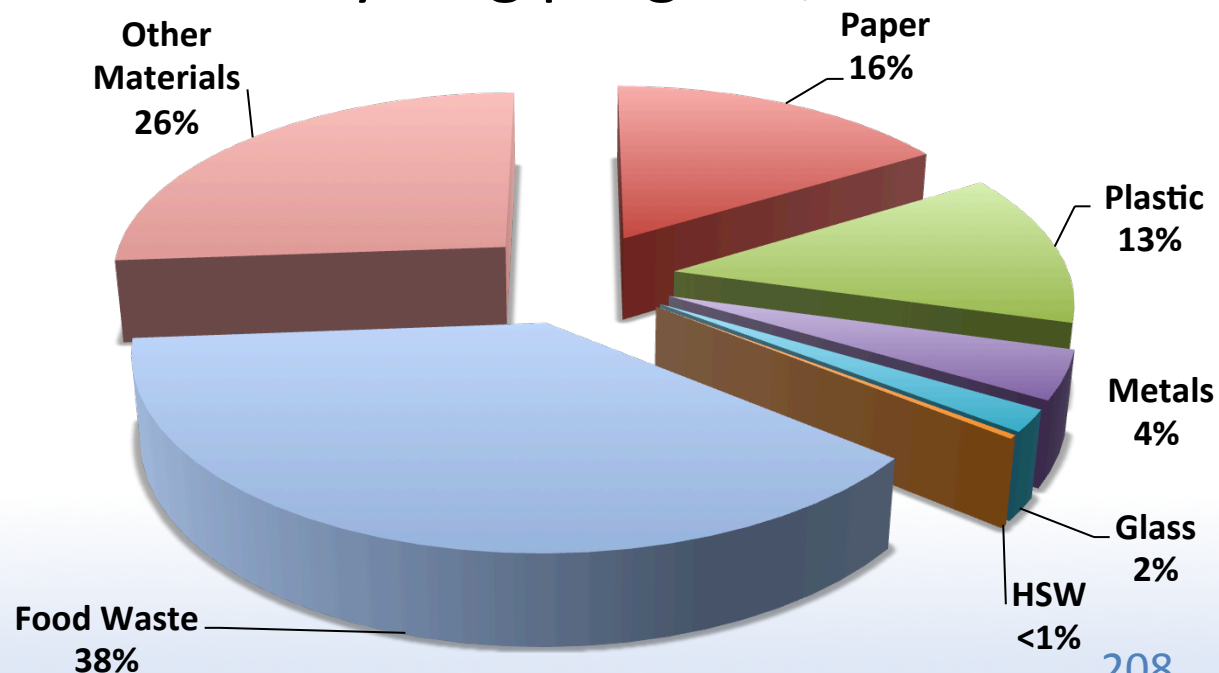


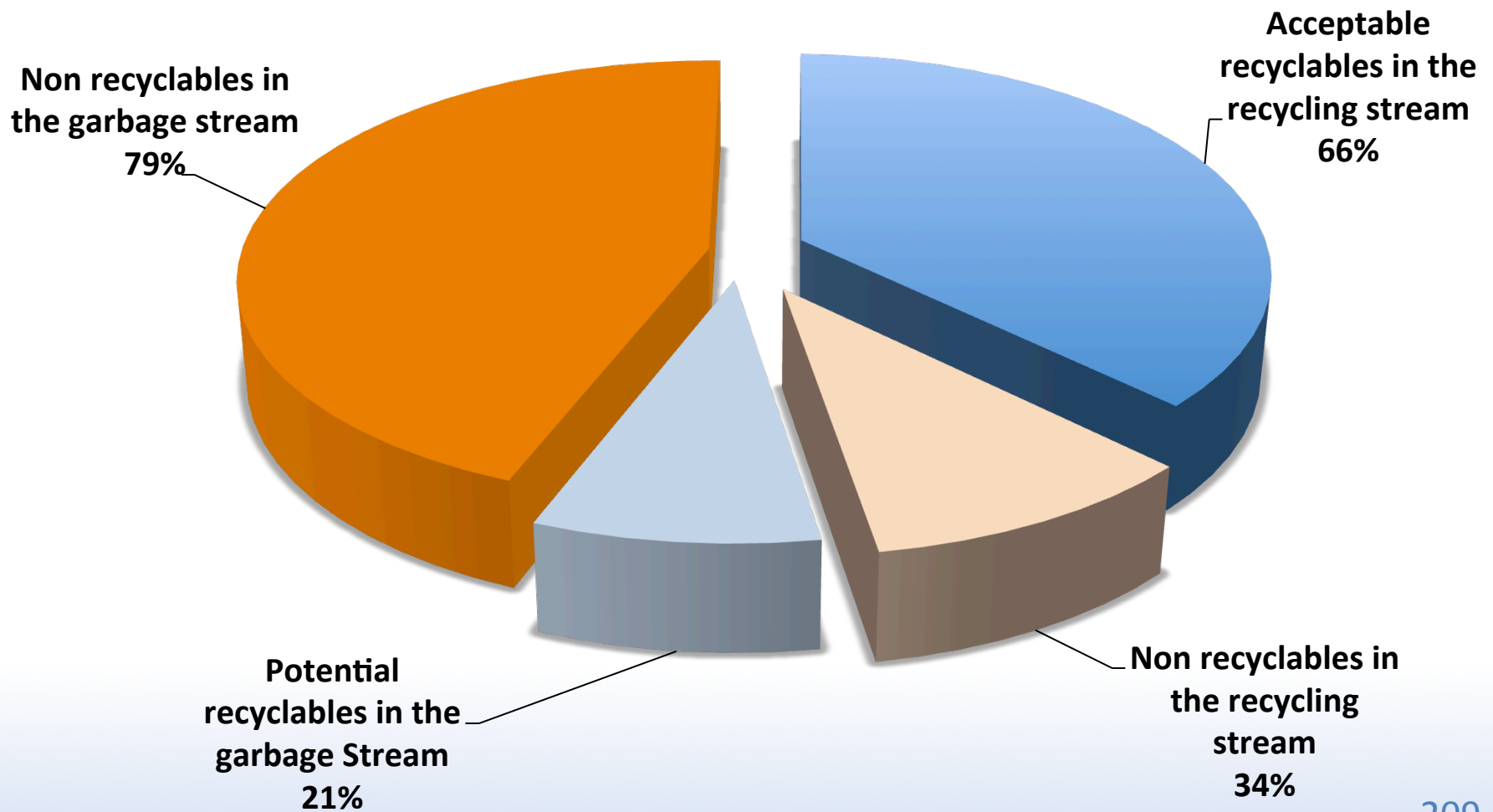
Project Description

- Worked with each community to evaluate existing waste management system & identify cost effective opportunities to implement a recycling program or enhance the existing one
- Since no existing information about waste generation habits, conducted a basic waste audit in two communities (M'Chigeeng & White Fish River)
- Identified policies to encourage participation in recycling & local employment opportunities
- Assessed opportunities based on whether landfill open or closed

First Nation Recycling Program Evaluation Project

- Waste Audit Results - M'Chigeeng (population: 994) - curbside collection of garbage & recyclables
- One week audit, 30 households, 18 category sort
- 37% participation rate in recycling program, 10% diversion
- Total generation rate of 605 kg/hhld/yr





First Nation Recycling Program Evaluation Project

For each of the 21 communities

- Developed low cost curbside collection solutions
 - Featured, where possible, curbside collection, low cost collection equipment & local employment
- Worked with local recycling facilities to arrange transport &/or processing services
 - Seven public & private MRFs involved in discussions
 - Smaller MRFs were very accommodating & wanting to help (e.g. Blind River, West Nipissing, Bracebridge)

First Nation Recycling Program Evaluation Project



Bear trailer used to collect recyclables in Wahnapiatae
- Services 40 households , cost \$10,000



Burks Falls Recycling Trailer

- Constructed by staff
- Service 250 household before needing to be emptied
- Cost ~ \$5,000



First Nation Recycling Program Evaluation Project

- Identified policies to increase participation & capture rates (e.g. clear bags, PAYT, bag limits)
- Developed & delivered P&E workshop for each Council
- Showcased innovative local solutions
- E.g. Wahnapiatae FN P&E strategy
 - Waste Diversion Strategy
 - Waste Diversion Barometer
 - Lunch & Learn
 - Recycling Championship Awards

First Nation Recycling Program Evaluation Project

- Not your typical CIF project
- No single target or goal
- Working with very small communities (# hhlds ranging from 30 to 1,150) with few resources
- Achieved several best practice goals
 - To evaluate & improve participation & recycling rates in existing recycling programs
 - To evaluate & improve cost effectiveness of existing recycling programs
 - evaluate & recommend new cost-effective recycling programs

First Nation Recycling Program Evaluation Project

Results:

- Project resulted in sharing of knowledge & resources
- First Nation communities connected with one another, showcasing of innovative programs
- Some saw opportunities to share resources (e.g. equipment)
- Became familiar with INAC funding opportunities
- FNTSC pursuing P&E handbook & workshop

Waste Recycling Strategy Planning

Vanessa Bligdon-Bernicky

Town of Smiths Falls

CIF Project # 299

Project Highlights

Sensational!



*Heart of the
Rideau Canal*

- Project goal: Maximize the capture rates of recyclables through existing & future programs & improve cost effectiveness
- Anticipated impacts: 16% diversion increase & 20% recycling cost reduction
- More information: vbernicky@smithsfalls.ca / www.smithsfalls.ca

Why a Waste Recycling Strategy?

- Fulfill Best Practice (BP) requirement
- Reduce reliance on landfill
- Respond to residents' request to expand programming to be consistent with neighbouring communities
- Develop strategies to improve cost-effectiveness

Smiths Falls: 2009 Baseline Data

- Municipal Grouping: Small Urban
 - 4,223 HH; 2,500 tonnes of residential waste
 - 24.82% BB diversion rate (21.99% avg.)
- Policies:
 - bag limit (2/wk)
 - garbage tags (\$2/bag; by-laws)
- Net annual costs \$110.60/tonne



Smiths Falls WRS Overview

- Multi-year plan (2011-2015)
- Expand list of targeted BB materials
- Increase diversion rates year over year (30%, 41%)
- Increase curbside participation rates (80%)
- Launch waste reduction initiatives (e.g. 'green purchasing')
- Coordinate BB improvements with other waste diversion program improvements
 - e.g. leaf & yard, composter initiatives, MHSW

Strategies

- Optimize Collection Operation:
 - Curbside: add LCCs, target more, change collection frequency, reworked collection routes
 - Adding programming for Town facilities, downtown business areas, public space
- Launch new P&E campaign
- Explore policy amendments

Results

- **Goal** – increase diversion rates year over year to 30% in year 2012 & to 41% in 2014
- **Result** – increased to 28 % (volume)
- **Goal** - increase curbside participation rates to 80%
- **Result** – achieved by review of curb side set outs
- **Goal** - reduce net annual costs by 20% from \$110.60/tonne
- **Result** – costs for 2012 \$104.50/tonne=6% reduction

Next Steps

- Exploring multi-municipal partnership opportunities related to collection
- Continuing focus on P&E for Multi-res
- Continuing to explore public space recycling
- Continuing to explore policy amendments

Waste Recycling Strategy Planning

Derek Ochej

City of Kingston

CIF Project # 325

- Project goal:
 - Maximize capture rates of specific recyclables using existing infrastructure & improved P&E
- Anticipated impacts:
 - Increased capture rates for targeted recyclables items
 - Increased overall recovery rate
 - Minimal increase in net cost/tonne
- More information:
 - dochej@cityofkingston.ca/www.cityofkingston.ca/waste

Why a Waste Recycling Strategy?

- Initially
 - Datacall funding requirement
- Afterward
 - Formalize plans/provide a yearly guide of activities
 - Document to update City Council
 - Living history for staff

Project description

- Multi-year plan (2010-2013) with goals & objectives
- Requirements:
 - Staff time
 - Budget
- Keys to success:
 - Dedicated staff member
 - Collaboration
 - Measurement tools (i.e., waste audits)
 - Yearly progress updates/refinement

Promotion & Education (1)



Promotion & Education (2)

This is **NOT** Garbage. These items go in your **BLUE** Box.
CityofKingston.ca/Wasteless



WASTE Less.
RECYCLE More.



This is **NOT** Garbage. These items go in your **GREY** Box.
CityofKingston.ca/Wasteless



WASTE Less.
RECYCLE More.



Promotion & Education (3)



Promotion & Education (4)



Impacts & Anticipated Results

- Overall capture rate increased to 82% from 73%
- Reached capture rate objective for all but one target for recyclable materials in 2012
- Several best practices implemented
 - increased recycling capacity
 - funded P&E plans

Capture rates		
Year	Capture Rate Goal	Capture Rate Achieved
2010	N/A	73 %
2011	76 %	75 %
2012	77 %	82 %
2013	85 %	N/A

Progress to Date, Results & Findings

- Highly-recommend multi-year approach
- Set concrete goals, objectives & timelines
- Don't be afraid of failure
- Gets easier as Waste Recycling Strategy progresses

Best Practices & Continuous Improvement

- Waste Recycling Strategy formulation & use is a best practice
- Use of SMART goals in planning
- Defined performance measures
- Planned, designed & funded P&E plans
- Enforce policies that increase waste diversion

Next Steps

- Late 2013 - formulation of next 3-year plan
- Looking at multi-residential & depot improvements
- Partnerships with nearby municipalities
- Report available on website

Questions?



Enjoy Your Break

