

Next Steps in Continuous Improvement

ORW: November 25, 2010-In Room Discussion Summary

Collection Practices for Discussion	POSSIBLE Questions/Issues/Ideas	Summary of Comments
Bag Based Collection	<ul style="list-style-type: none"> • What conditions/requirements needed for bag collection? • Does community size play a role in efficiency of bag collection? • Prove/disprove bag programs recover more/better material than box based programs? 	<ul style="list-style-type: none"> • 2-stream/alt week collection raises questions: how will res respond? impact on recovery? impact on \$\$? • Bag based collection: Issue with MSW bag limits & cross contamination with BB bag?; High density areas - better fit for bags?; Audits for capture rate and quality and compare to baseline box programs; Community events?
Collection frequency for recyclables – <ul style="list-style-type: none"> • weekly, • alternate fibres/containers, • alternate-weekly, • co-collection of recyclables with other materials 	<ul style="list-style-type: none"> • Prove/disprove collection frequency impact recovery? • What variables improve or limit efficiency of collection methods? • What are costs and recovery rates of different collection methods? • Decision considerations for different frequency options? 	<ul style="list-style-type: none"> • Frequency: Issues with alternative week collection: Confusion re is it container week or fibre week; audits to determine if tonnage lost/capture rate studies; storage restrictions; cost/benefit analysis for fibre stream vs. 2 stream (entire system review); what happens if glass is removed from the system? SS vs. 2 Stream: Greenhouse gas?; Carbon footprint impact?;
Collection on one side of street in rural setting (single side collection)	<ul style="list-style-type: none"> • What are the cost savings of single side collection? • Effectiveness of single side collection in sub-urban or urban locations? • Issues/parameters for single side collection? 	<ul style="list-style-type: none"> • Frequency: Key: what is the most convenient (either for the resident or the contractor?)
Front end containers for Blue Box depot service.	<ul style="list-style-type: none"> • What are the factors to consider for utilizing front end vs. other systems? • Measuring/testing compaction – amount, effects, and efficiencies? • When/How to decide to move to curbside collection from depot collection? 	<ul style="list-style-type: none"> • Rural Collection offers potential cost savings <ul style="list-style-type: none"> ○ Pro: mail box on one side; staff are already trained

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Collection Practices: Front end cont'd	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> ○ Con: ditches & snow ploughs; narrow shoulders; safety (traffic volume); possible unidentified source (re: contamination); any studies done to determine effectiveness (capture, cost...); single side in urban areas would need assessment ● Front End Containers: FE v. 40 cy roll off potential issues: contamination; depot recovery increase but collection at mf will cost more; need cost benefit analysis; need to consider broader program policies for effectiveness (e.g. deposit return; bag limits; PAYT) ● Also consider compaction & ss vs. 2 stream re: costs; some -fully automated; multi-res & areas with lack of storage; public spaces

Processing Practices for Discussion	POSSIBLE Questions/Issues/Ideas	Group Comment Summary
MRF Ownership – Municipal or Private	<ul style="list-style-type: none"> • When should municipalities own or build MRF? • Choosing MRF Locations? • Is contracting merchant capacity cheaper? 	<ul style="list-style-type: none"> ● MRF Ownership Change Considerations: Loss of control; Loss of existing investment (municipal MRFs); Management (board, authority, contracted); Who is collecting; Who is marketing; Contingency ● MRF Design Considerations: 1 vs. 2 stream; Tonnage/ Material mix & New materials; Markets (fibre – bale or upgrade?); High tech/lo tech; Staffing; Storage spaces; Flexibility for upgrades; bale or compact fibres; Residue Management
MRF Design	<ul style="list-style-type: none"> • Use and types of technology? • Ergonomics in operation? • Safety? • Quality control? 	
Compaction of residual for disposal	<ul style="list-style-type: none"> • Determining the variables that make this practice effective? • Possible costs and benefits? 	

Processing Practices for Discussion	POSSIBLE Questions/Issues/Ideas	Group Comment Summary
		<ul style="list-style-type: none"> • Compaction of Residuals for Disposal: How far? ;Location; How much is there?; Baled or loose?; Cost?
Processing (cont'd): Application of ANSI standard	<ul style="list-style-type: none"> • Prove that application and adherence to standards improves efficiency? • Development of list of points/considerations for efficient equipment design? 	<ul style="list-style-type: none"> • Composition of Residual: stream (another sort? To what extent?); Standard processor may sort anyway • How should CIF spend its money? Proven Optimization technology; system design; "Collection to Market" approach; Priority for regionalized systems; Technology for new materials (pub and private, evaluation issues)

Marketing Practices for Discussion	POSSIBLE Questions/Issues/Ideas	Group Comment Summary
Marketing Done by Municipality or Contractor	<ul style="list-style-type: none"> • Development of guidelines to consider for marketing (in either case)? • Use of material brokers? 	<ul style="list-style-type: none"> • Marketing materials: key issue is risk <ul style="list-style-type: none"> ○ Contractor: Marketing index for higher risk commodities ; proactive approach to changing composition of fibre markets ○ Municipalities: how much risk is acceptable; framed by political climate • Provincial market co-ordinator: suggest CIF become material broker for small municipalities; develop & maintain market index • Market Natural HDPE bottles? – no • Other considerations: look at developing markets for plastics 1-7; fibres, metals • Introduce/investigate New Materials to Add/Separate in BB <ul style="list-style-type: none"> ○ Laminated plastics
Contractor or Municipality keeps predominant portion of market revenues	<ul style="list-style-type: none"> • Sliding scale of revenue shares? • Different revenue arrangements for different commodities? 	
Established relationships with end markets/Use of more than one buyer for marketed commodities	<ul style="list-style-type: none"> • A provincial market coordinator position? • Co-operative marketing boards? • Spot markets vs long term contacts? 	
Market natural HDPE bottles	<ul style="list-style-type: none"> • Determine the cost benefit of change, factors for consideration? • Other possible products for high-grading? 	

Administration Practices for Discussion	POSSIBLE Questions/Issues/Ideas	Group Comment Summary
Pay collection on per household basis	<ul style="list-style-type: none"> Is there a difference in payment method and cost effectiveness? Other options flat rate, tonnage 	<ul style="list-style-type: none"> Bonding: consistency; levels Insurance: property damage; service implication Combining BB & garbage in tenders - one big or a bunch of small ones Joint municipal contracts Advertise web-based contract info Alternative fuels – how to evaluate non-financial benefits Data management - tracking software; scale software; Datacall Research dbase on what's new for municipalities i.e., new projects; results; learning; MERX access; Contact list
Reasonable, not overburdening bonding	<ul style="list-style-type: none"> Guidelines and examples of bonding? Costs of excessive bonding requirements? 	
Customer service line, with database of customer complaints with follow-up	<ul style="list-style-type: none"> Effectiveness of in house vs. contracting out customer service? 	

Policies & Incentives Practices for Discussion	POSSIBLE Questions/Issues/Ideas	Group Comment Summary
Provision of free blue boxes only to new residents or as a replacement for a broken one	<ul style="list-style-type: none"> Prove/disprove if free blue boxes result in improved recovery? Large sized containers cost/benefit? Automated collection? 	<p>Blue Boxes: payment issue</p> <ul style="list-style-type: none"> Free boxes – budget fixed (good BP); 25% annual rep (important consideration) CIF: Depot study – best options Large boxes - Weight issues; ;Price; Capacity Issues; Funding Automated: Is it BP? Maybe, but single stream is an issue Life Cycle Analysis: needs more study – costs are unknown as is resident impact <p>.....</p> <p>Multi-residential construction</p> <p>**change building code**</p>
New multi-residential construction must provide space for recycling containers	<ul style="list-style-type: none"> Engage a consultant to review, recommend and lobby for change to building code? Garbage collection for MR municipal vs. contract out? 	
Waste Management Bylaws	<ul style="list-style-type: none"> What bylaws to include to improve program? Limits and penalties, what works? Enforcement? 	

<p>Policies & Incentives: Waste Management Bylaws cont'd</p>		<ul style="list-style-type: none"> • Suggest CIF look into this (note: see December 2010 <i>CIF Connections</i>); how to convert rooms, containers; chutes may not work; space may be better; MUST BE EASY <p>Waste Management Bylaws: Not universal; Enforcement is a question; Too weak; Need more education</p> <ul style="list-style-type: none"> • CIF can help framework; assist with P&E & global branding • CIF consideration: go beyond curbside to public spaces (including standardization) and IC&I
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