

Ontario Recycler Workshop

October 8, 2013

ORW begins at 9:30 a.m. ET



Ontario Recycler Workshop

April 11, 2013

Mike Birett

CIF

Intro & Welcome

- Good morning & welcome to the 17th ORW
- 150+ people registered to participate online & in person
- Thank you all for taking the time out of your busy schedules to join us today

Webcast Controls

- Full day session (to ~4:30 p.m.)
- For webcast viewers
 - ① sound slider (hover over black bar)
 - ② “questions & comments for speakers”
 - not seen on other participants’ screens
 - ③ link to agenda & slides
 - ④ webcast technical assistance



3

4

Snapshot...Today's Program

- CIF & partner updates
- Morning Break
- Preparing for change: working together
- Lunch
- Update on AMO activities
- CIF Centre of Excellence training opportunities
- Optimizing your recycling program
- Afternoon break
- Boosting program efficiency
- Bill 91 -The Waste Reduction Act: What You Need to Know
- Concluding remarks

The CIF Thanks Today's Many Speakers!

- Aaron Burman, RRS
- Annette Synowiec, City of Toronto on behalf of AMO
- Bradley Cutler, CIF
- Cathie Green, Lanark Highlands
- Dave Robb, Hastings Highlands
- David Faris Yousif, City of Hamilton
- Glenda Gies, Glenda Gies & Associates
- Janine Ralph, HDR
- Joe Hruska, CPIA
- John Watson, Halton Region
- Kevin Mehlenbacher, Peel Region
- Maria Kelleher, Kelleher Environmental
- Michael Scott, Executive Director
- Monika Turner, AMO
- Renée Dello, City of Toronto
- Rick Denyes, Stewardship Ontario
- Robert Cook, OWMA
- Will Mueller, WDO

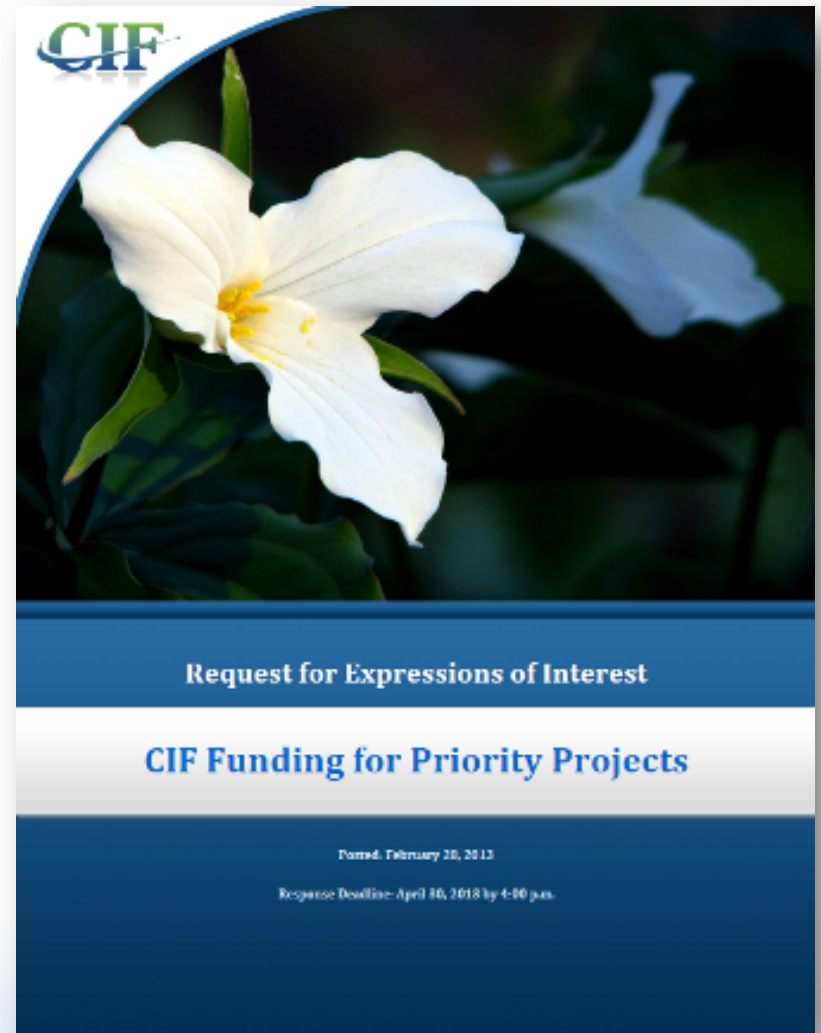
CIF Update

Mike Birett

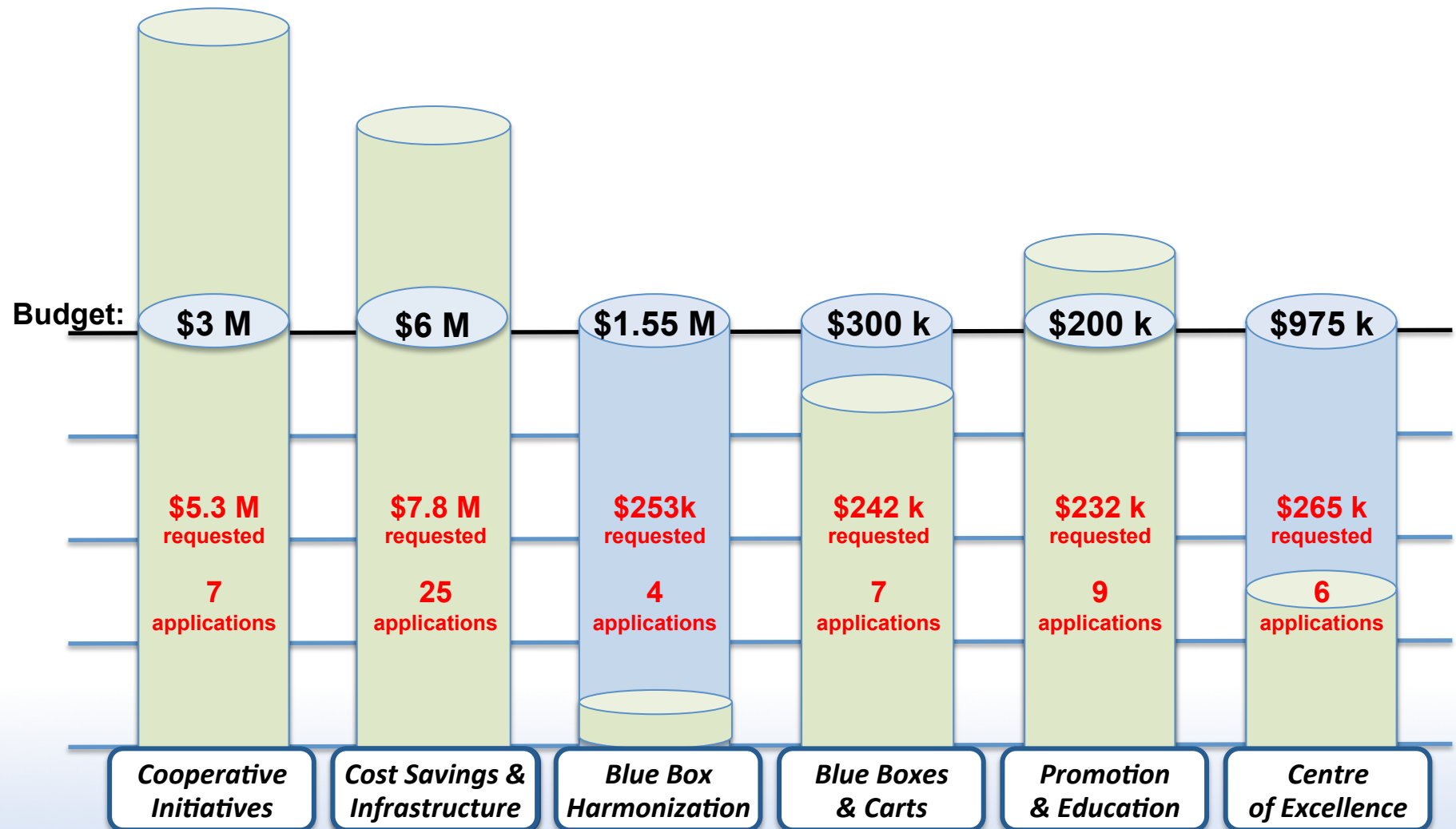
CIF

2013 REOI Update

- 2013 CIF REOI
 - Budget: \$12 million
 - Closed May 6th
 - 58 applications received
 - \$27.4 million total value
 - Funding requested: \$14 million



2013 CIF REOI Response



Approvals

Funding Requests		
Approval Level	# of Projects	~ Total Funding
CIF Director	25/29 approved	\$468K
CIF Projects Committee	15/21 approved	\$1.898M
CIF Committee	7/8 recommended	\$7.656M
	47 approved*	\$10.02M before Tax

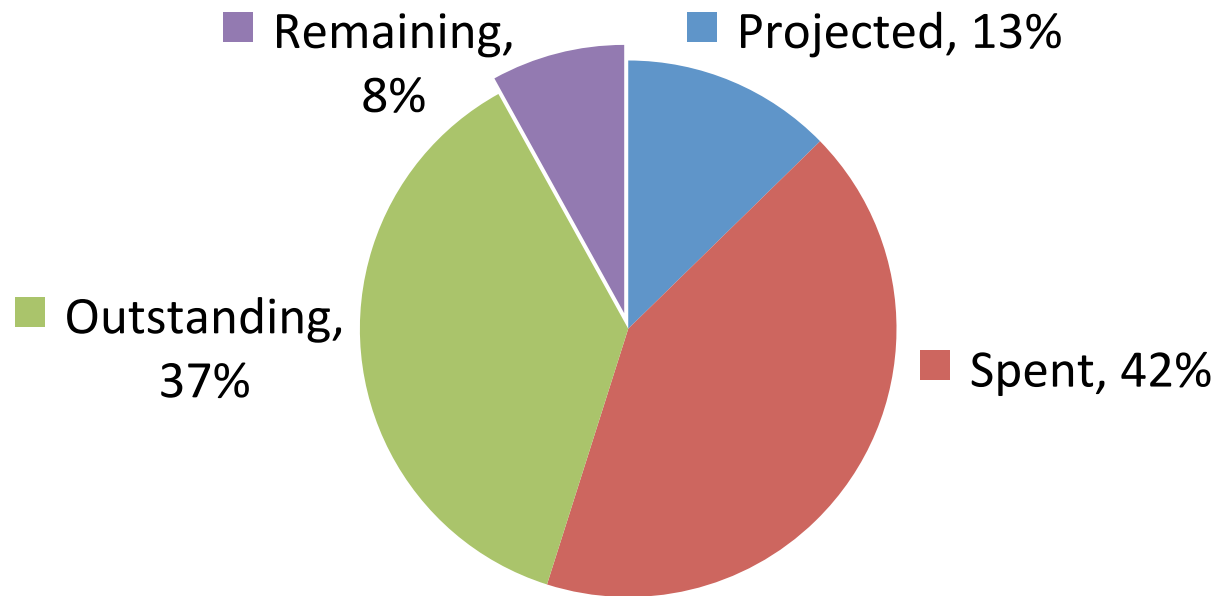
** To be confirmed*

Next Steps

- CIF Committee Oct 22nd
- Release of approval letters & draft grants
 - Reject letters & appeals
 - Contact your project manager for status
- New application & project guidance

cif.wdo.ca/funding

CIF Projected Financial Status



- Projected Administration Costs (2008-2018)
- Spent (Completed Projects + Projects Invoiced to Date)
- Outstanding Committed Project \$
- Remaining Project Funding \$ Projected at end of 2013

Draft 2014 Budget (1)

- Assumes no new funding
- Sufficient funds allocated to:
 - Fulfill current obligations
 - Operate Centre of Excellence through wind down
 - Support administration until fund closure

Draft 2014 Budget (2)

Grant Opportunities	2014 Budget
System Rationalization	\$1,000,000
Cost Saving Initiatives	\$1,000,000
Addressing Problematic Materials	\$1,000,000
Blue Box Harmonization	\$200,000
Total	\$3,200,000

Draft 2014 Budget (3)

Centre of Excellence Initiatives	Proposed 2014 Budget
Best Practices Compliance & Data Call Support	Incl. in Admin Budget
Development of Better Practices & Tool Kits	\$100,000
Marketing Materials & Blue Box Harmonization	\$100,000
Support For RFP & Tender Development	\$75,000
Training Initiatives	\$200,000
Outreach Services	\$50,000
Performance Auditing	\$200,000
Total	\$725,000

Centre of Excellence Projects

- RFP template review
- Carton Council of Canada joint project
- MRF audit protocol



Looking Ahead

- Thanks to all of you who participated in AMO spring consultations
 - We plan on doing more
- Admin
 - Closure of 2010 projects
 - Updating CIF web site
- New training opportunities
- CofE will begin work in earnest
 - Input already received from MWA

Projects We're Seeking Feedback On

- Film impacts on two stream operations
 - \$75,000
- Mixed broken glass
 - \$400,000



For More Information

Website: cif.wdo.ca

Mike Birett – Director, CIF

mbirett@wdo.ca (905) 936-5661

Carrie Nash – Project Manager, CIF

CarrieNash@wdo.ca (519) 858-2396

Alec Scott – Project Manager, CIF

archenv@sympatico.ca (705) 722-0225



Presentation to Ontario Recycler Workshop

Tuesday October 8, 2013
Barrie, Ontario

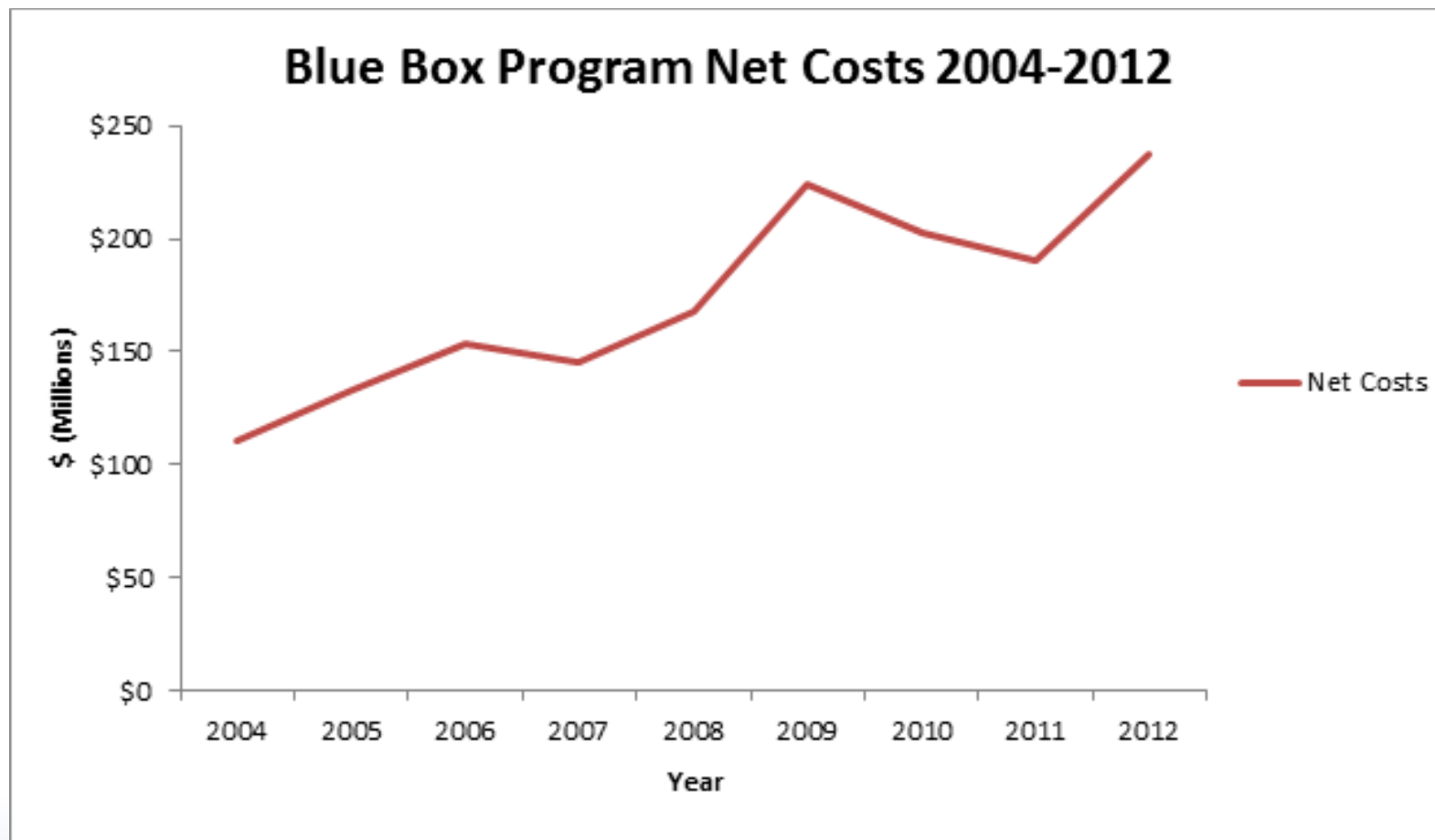
Presentation Will Cover

- Key Results – 2012 Municipal Datacall
- Update on:
 - MIPC Negotiations on 2014 Steward Obligation
 - In Kind Program
 - Waste Electronic & Electrical Equipment (WEEE) Program
 - Used Tires Program
 - Industry Stewardship Plans
- Looking Ahead

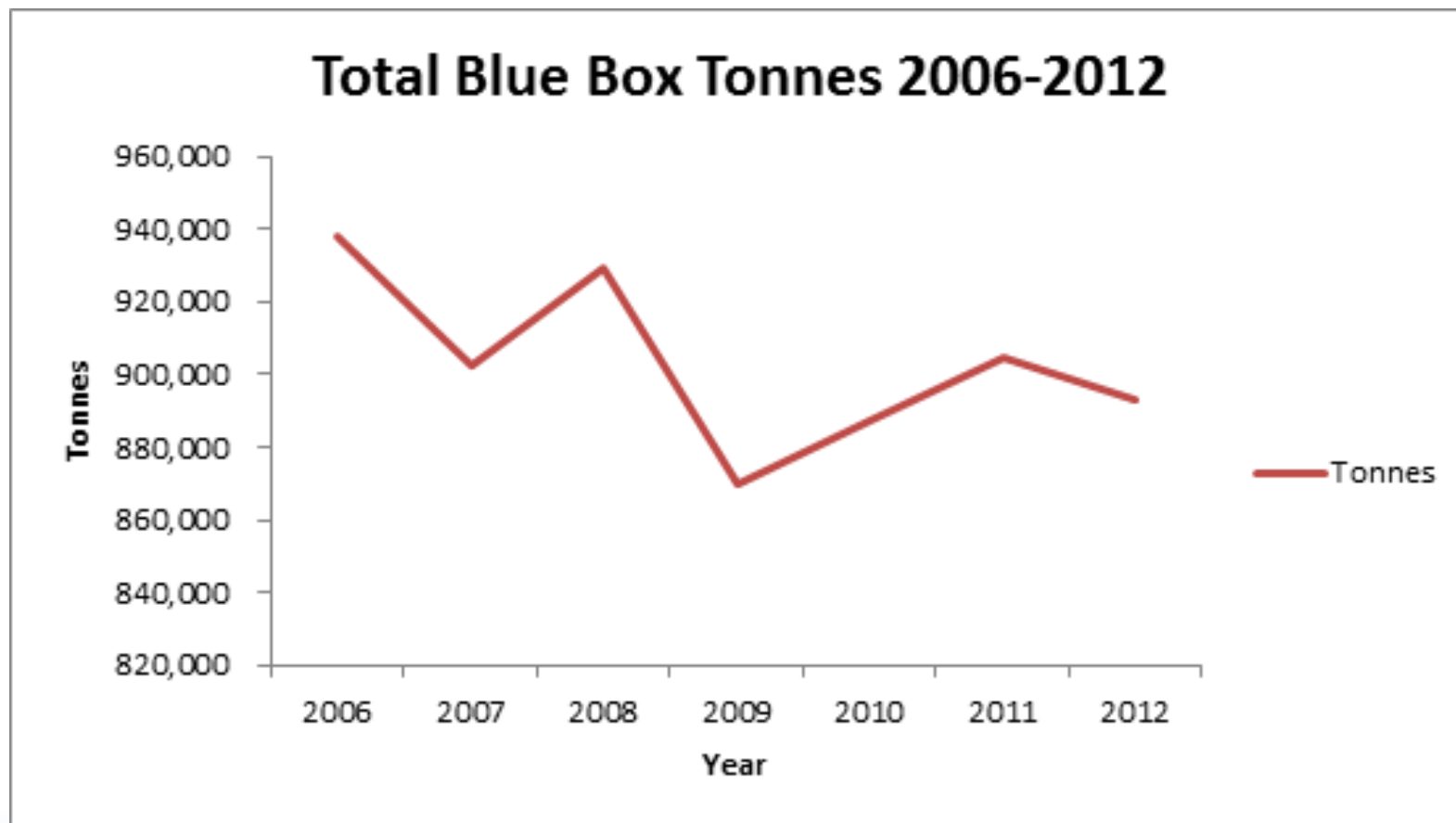
2012 Municipal Datacall Results (1)

- Now posted on WDO Website
- Key Results:
 - Total tonnage down slightly
 - 2.8% drop in printed paper
 - 8.7% increase in aluminum tonnage
 - Significant growth in plastic – 7.4% in 2012
 - 119 of 230 reporting programs have implemented some form of pay as you throw

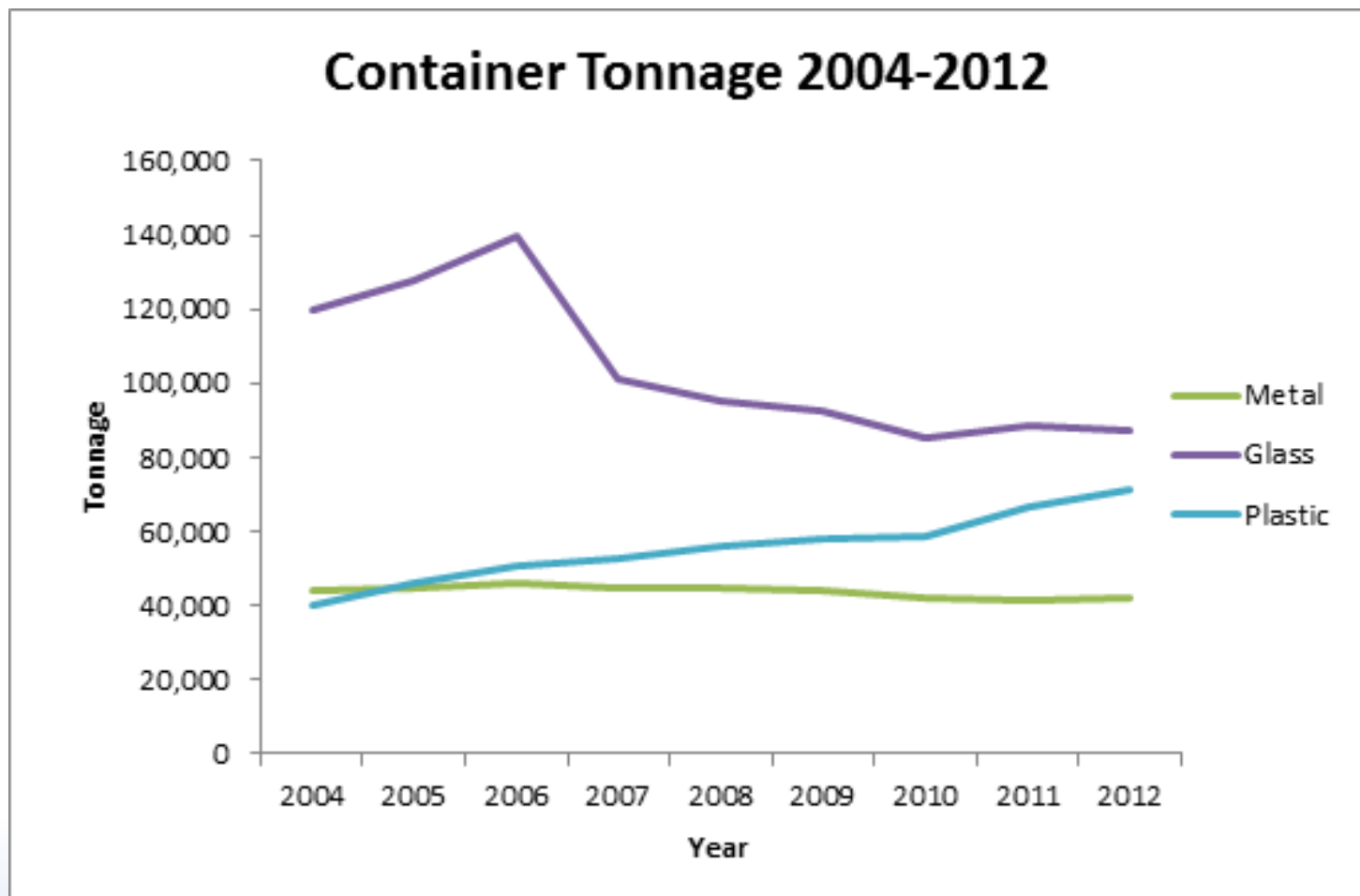
2012 Municipal Datacall Results (2)



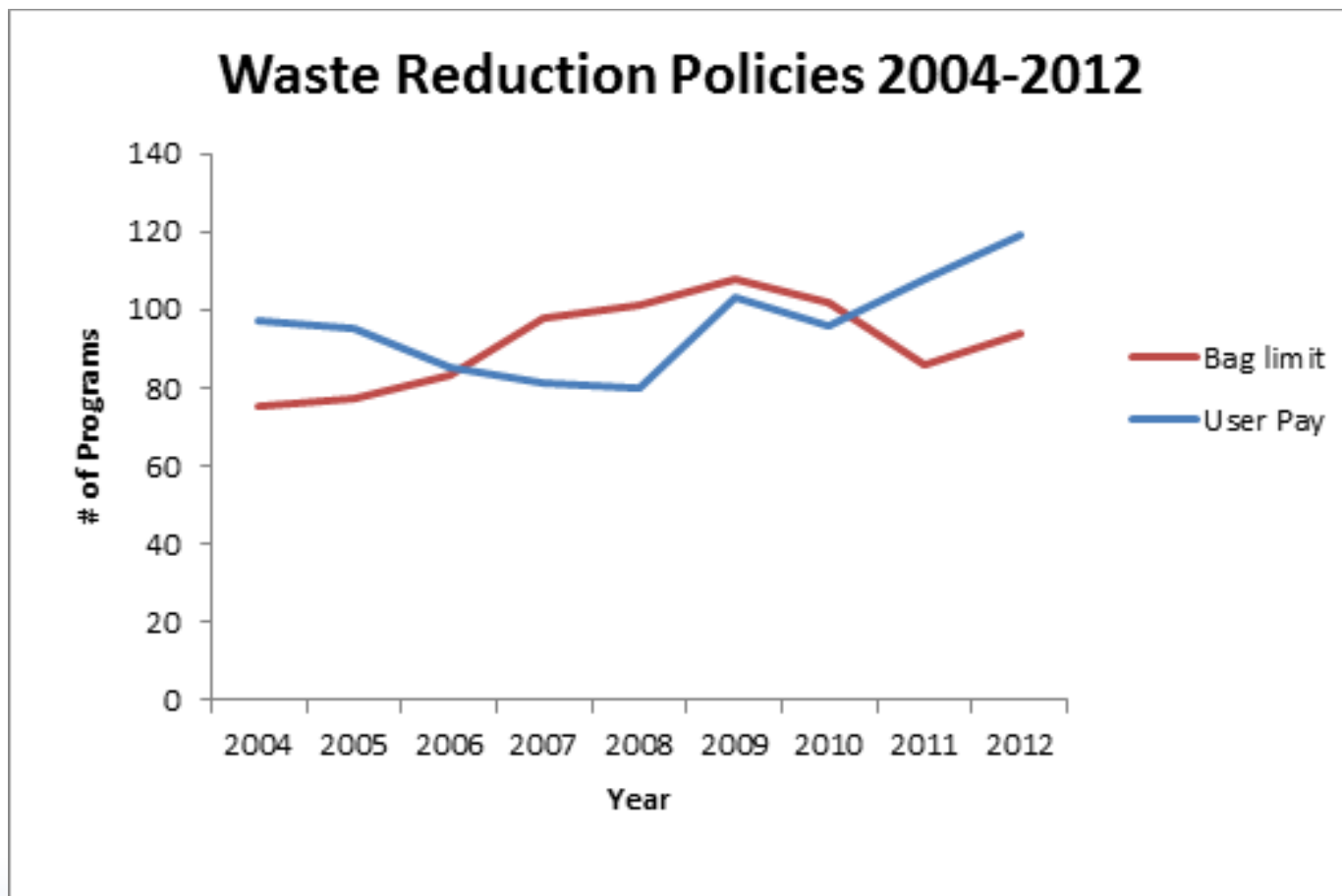
2012 Municipal Datacall Results (3)



2012 Municipal Datacall Results (4)



2012 Municipal Datacall Results (5)



In-Kind Program (1)

- Newspaper stewards currently pay their BBP financial obligation through in-kind advertising
- From 2004-2011, the average in-kind was approx. \$1.7M
 - In 2012 – \$3.5M
 - In 2013 - \$6.1M
- Minister has directed WDO to provide recommendations to him

In-Kind Program (2)

- No consensus from MIPC on recommendation
- Mediator retained in July
- Concluded that a mediated solution was not possible without full access to SO data & methodology for calculating annual steward fee by category
- WDO Board has deferred a recommendation, while WDO continues discussions with SO on this issue

Other Updates (1)

- A status report on the review of the WEEE program will be distributed shortly
- WDO discussing with Ontario Tire Stewardship their proposed reduction in incentive rates & market development

Other Updates (2)

- WDO has received 5 industry stewardship plans:
 - 2 from Product Care (paints & coatings, & pesticides, solvents & fertilizers)
 - Canadian Beverage Container Recycling Association (beverage containers)
 - Call2Recycle (batteries)
 - Pitney Bowes (floor standing printing & copying devices)
- Stakeholder consultation webinars for first 3 above now scheduled for late October & November
 - Dates are posted on the WDO website

Looking Ahead

- Bill 91
- Municipal datacall redesign
- Blue Box issues
 - Cost a continuing significant issue
 - Material composition & related metrics
 - Need to maximize CIF investments
 - Joint municipal collaboration is very important

www.wdo.ca
416-226-5113

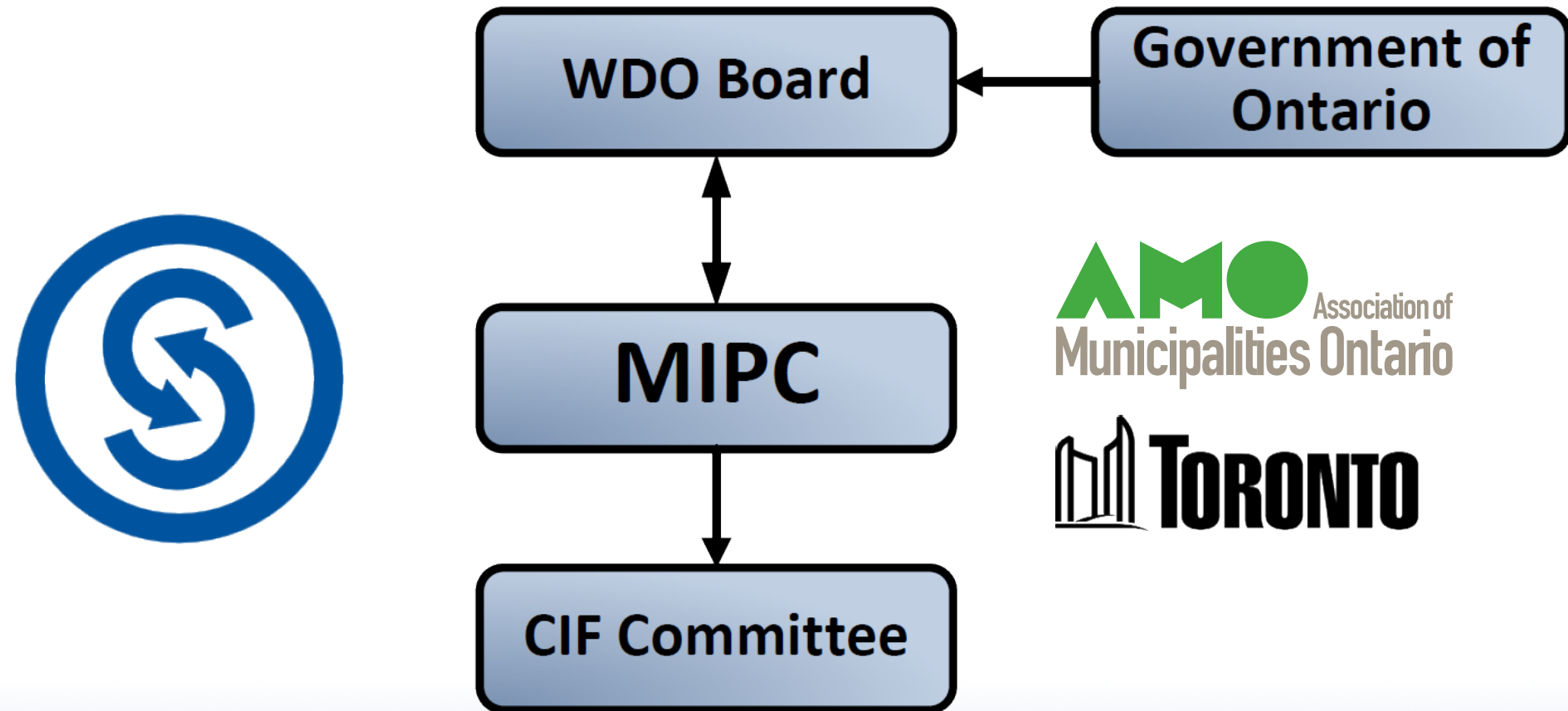




Update on MIPC Activities

Annette Synowiec
City of Toronto

Organizations & Relationships



MIPC Municipal Members

- Changes in 2013 – Tim Michael retired, replaced by Annette Synowiec
- Current Members:
 - Eli Maodus Essex Windsor Solid Waste Authority
 - Craig Bartlett Durham Region
 - Dave Gordon York Region
 - Chris Wray Township of Muskoka Lakes
 - Monika Turner Association of Municipalities of Ontario

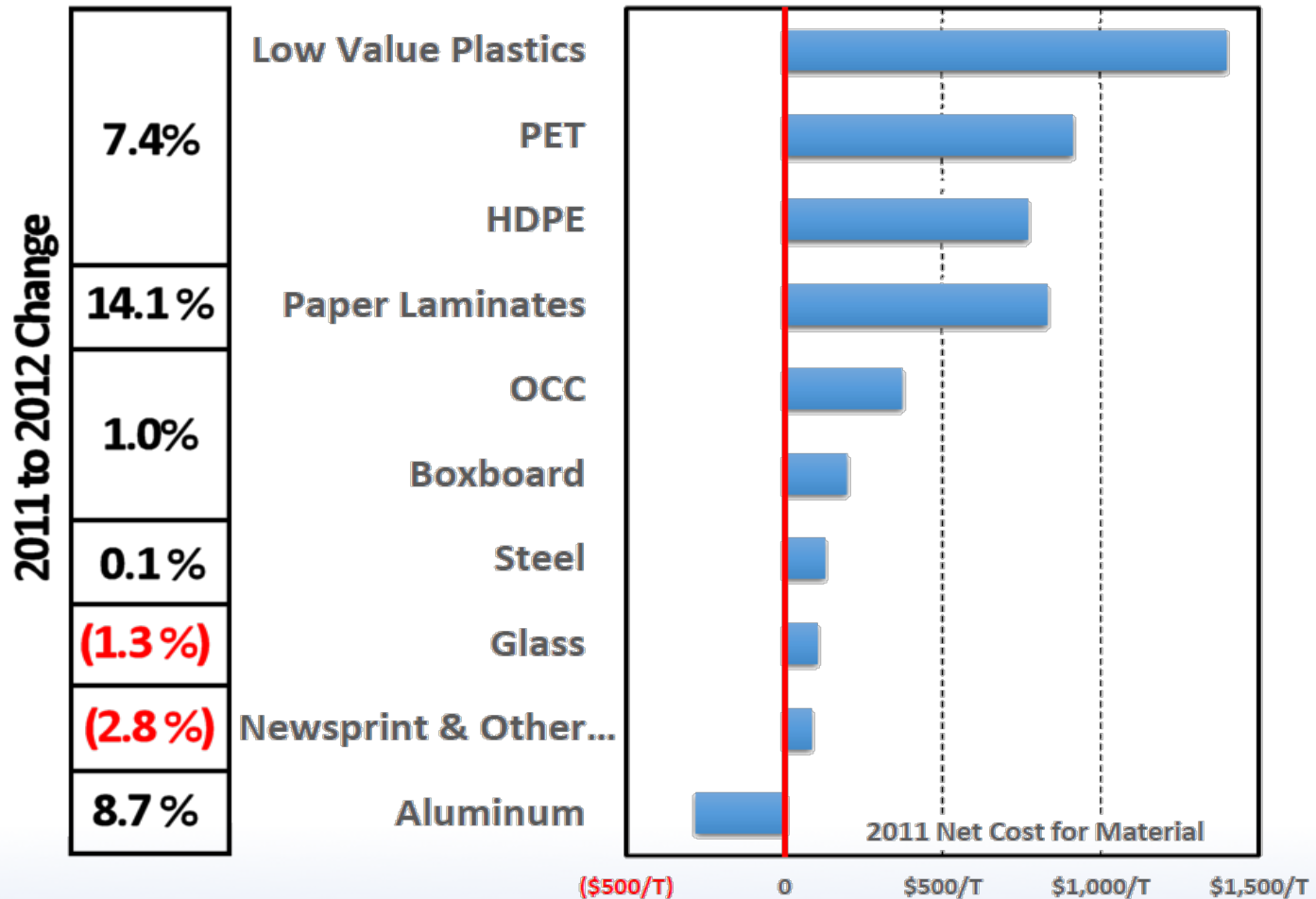
MIPC Activity

- 2013 negotiations still ongoing – details still confidential
 - Normally municipalities informed of WDO funding levels for subsequent year in November
 - Normally first funding cheque arrives in June
 - Recommend setting your budget using 2013 numbers
- Bill 91 discussions occupying a lot of time
- New Best Practices ‘objectives form’ developed in spring
 - Presented at spring consultation sessions

Preliminary 2012 Results

Group	Name	Average	Net Cost	BB Tonnes	Garbage Tonnes	Households
1	Large Urban	\$277.59/T	\$118,402,025	426,543 T	1,011,669 T	2,318,202 HH
2	Urban Regional	\$201.60/T	\$46,316,525	229,743 T	617,576 T	1,286,715 HH
3	Medium Urban	\$185.90/T	\$9,523,909	51,230 T	165,818 T	298,901 HH
4	Rural Regional	\$302.72/T	\$29,179,601	96,931 T	244,631 T	636,541 HH
5	Small Urban	\$214.72/T	\$5,580,050	25,987 T	58,705 T	137,991 HH
6	Rural Collect. N	\$424.57/T	\$4,236,898	9,979 T	46,023 T	83,130 HH
7	Rural Collect S	\$401.72/T	\$15,387,645	38,304 T	135,814 T	266,091 HH
8	Rural Depot N	\$643.08/T	\$3,813,029	5,929 T	21,105 T	71,697 HH
9	Rural Depot S	\$540.96/T	\$4,769,639	8, 817 T	27,050 T	93,627 HH
Overall		\$265.65/T	\$237,209,322	892,924 T	2,328,390 T	5,192,895 HH

Year to Year Changes



For More Information & Updates

Alec Scott

Municipal MIPC Blue Box Program Coordinator

(705) 722 0225

archenv@sympatico.ca



Thinking
beyond
the box

Stewardship Ontario

Working Together to Increase Diversion

Rick Denyes

Director, Strategic Supply Chain

Stewardship Ontario



CONTINUOUS
IMPROVEMENT FUND

Stewardship Ontario (SO) Update - Internal



- MIPC Negotiations
- Bill 91
- CSSA Transformation/Implementation
- SAP Upgrade
- Website Upgrade

SO Update - External

- PPP Producers
- Standardized packaging materials
- Close the loop approach
- Cost-effective solutions across entire supply chain
- Problematic materials – technologies
- Financial support – municipal & private

Innovation in Processing (1)



Walmart 

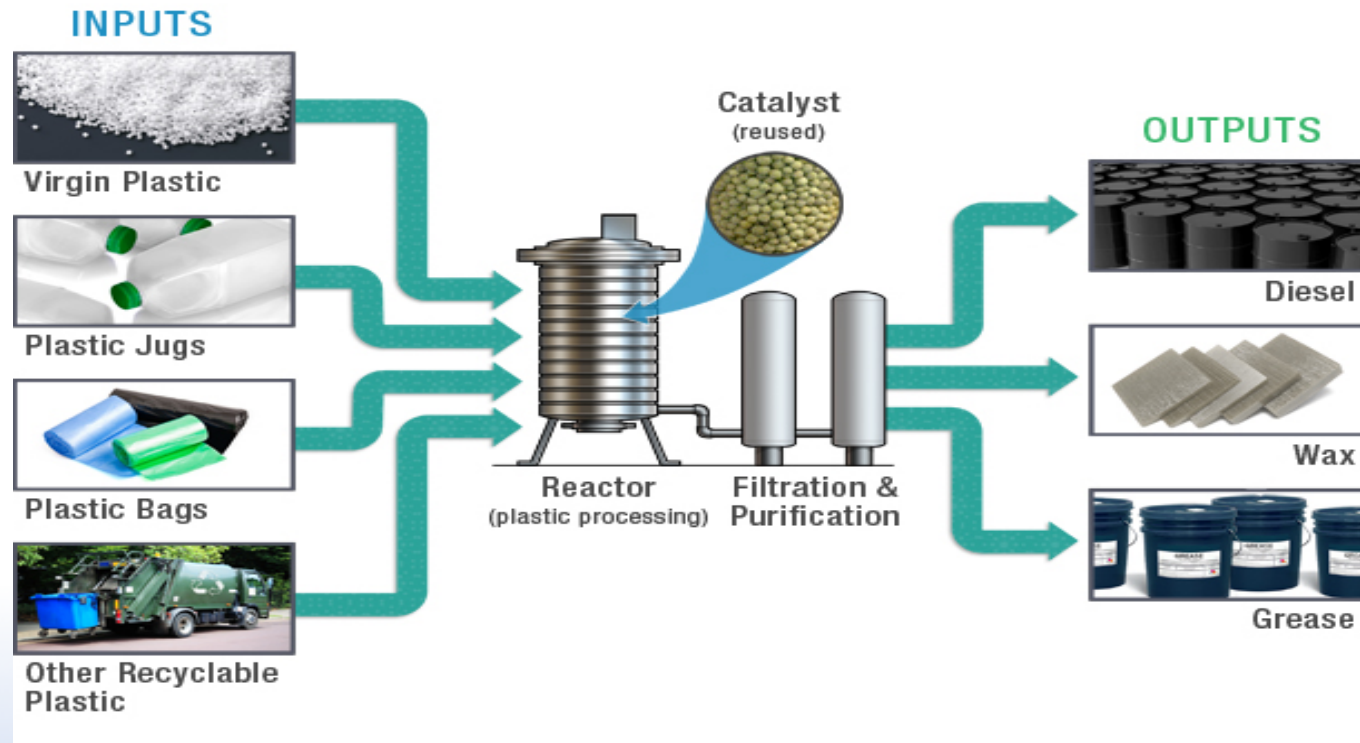
Innovation in Processing (2)



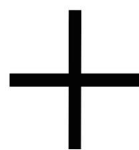
Innovation in Processing Technologies



GREENMANTRA
TECHNOLOGIES



Technologies Currently in Due Diligence



Plastic Is In

Plastic Is In!



If you live in the City of Kawartha Lakes, City of Peterborough, County of Peterborough or the County of Northumberland you can recycle all of your plastic packaging and containers.

Don't forget, all PET (#1) plastics can go in your blue box.



Markets Update (1)

- Plastics
 - EFS , Entropex & Blue Mountain are strong local processors
- Mixed Plastics \$38
- HDPE \$470
- Film Plastics \$16
 - EFS ramping to 7500 TPY by year end
- PET \$384
 - Blue Mountain accepts bottle/thermoform

Markets Update (2)

- EPS
 - HGC densifying material in Belleville
- Glass
 - NexCycle's capacity 60K TPY (\$22)
 - Multiple closures (E-Cullet, Hillcrest, Klareco)
- Fibers
 - ONP \$74
 - OCC \$128
 - Boxboard \$46
- Metals
 - Steel \$248
 - Aluminum \$1,547

Composite Index

2009	2010	2011	2012	2013
\$80	\$124	\$169	\$118	\$108



Thinking
beyond
the box

Stewardship Ontario

Thank You

CIF
CONTINUOUS
IMPROVEMENT FUND

Questions?



Enjoy your break!



Welcome Back!



Preparing for Change: Working Together

Alec Scott, AMO/CIF

Why Work Together

- Blue box (BB) recycling is a commodity business
- Bigger is always going to be cheaper
- We're hauling more air & fuel costs are increasing



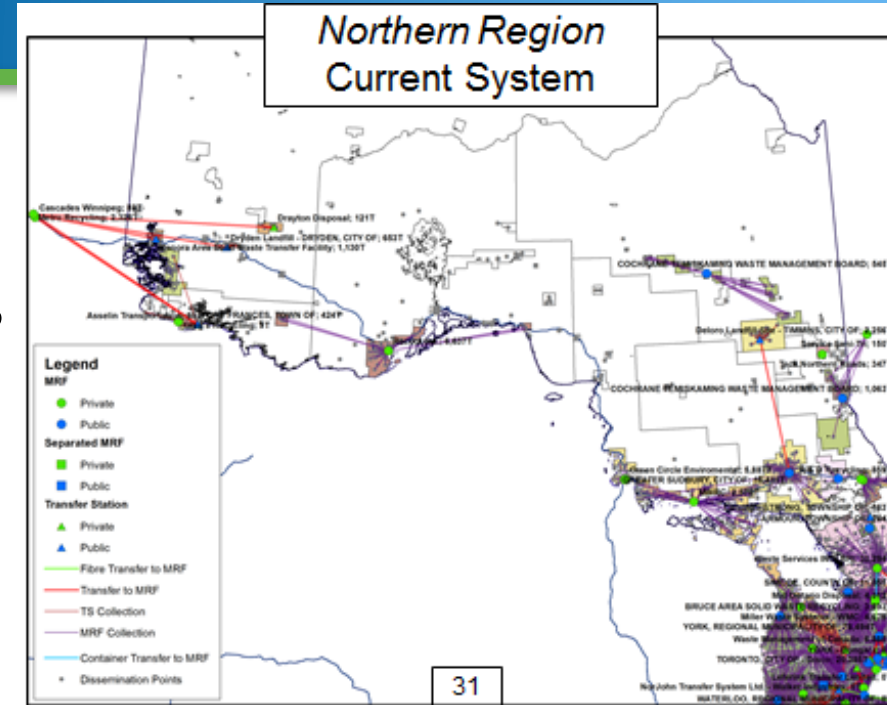
It's a Long Term Game

- CIF began modernizing municipal processing infrastructure in 2009
 - continues to do so
 - e.g., Niagara, NW Ontario, York Region
- Next step: develop efficient transfer capabilities (compactors, transfer stations, etc.)
- It takes time to coordinate contracts & for programs to demonstrate payback



Today's Speakers

- Discussing work they & neighbouring municipalities do to cooperatively develop their waste shed(s)
 - ensure they survive & prosper in Bill 91 or BC EPR model
- Each is at different point of what typically is 3 yr. process



Speakers

- Aaron Burman, Resource Recovery Systems
 - Regional Optimizing Modeling, CIF # 462
- Alec Scott, CIF
 - CIF Northwestern ON Optimization
- Mike Kearns, Iroquois Falls
 - The Power of Partnership: Cochrane Temiskaming Waste Management Board
- Dave Robb, Hastings Highlands
 - Optimizing Recycling Across Boundaries: Hasting Multi-Municipal Waste Committee, CIF #461

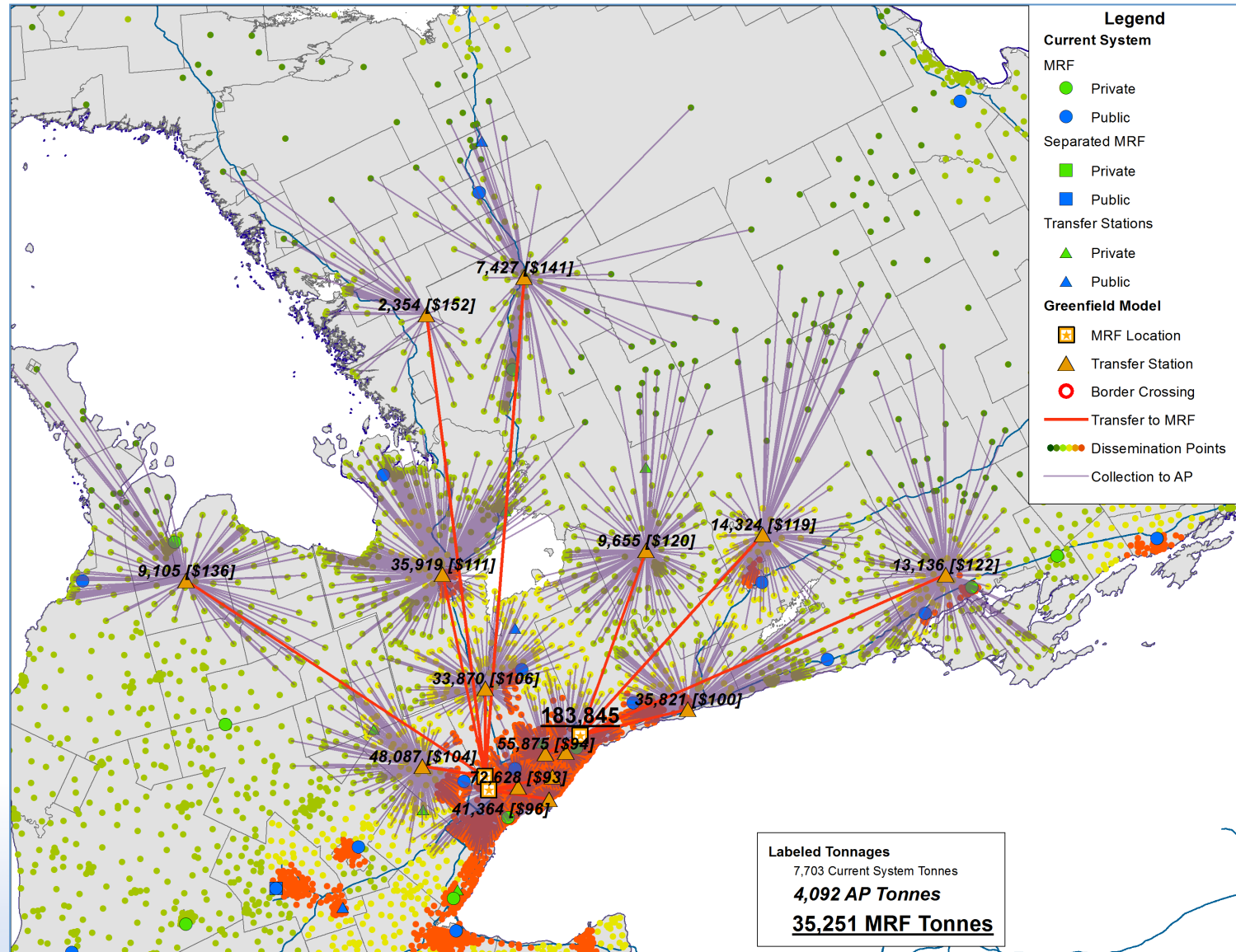


Regional Optimization Modeling

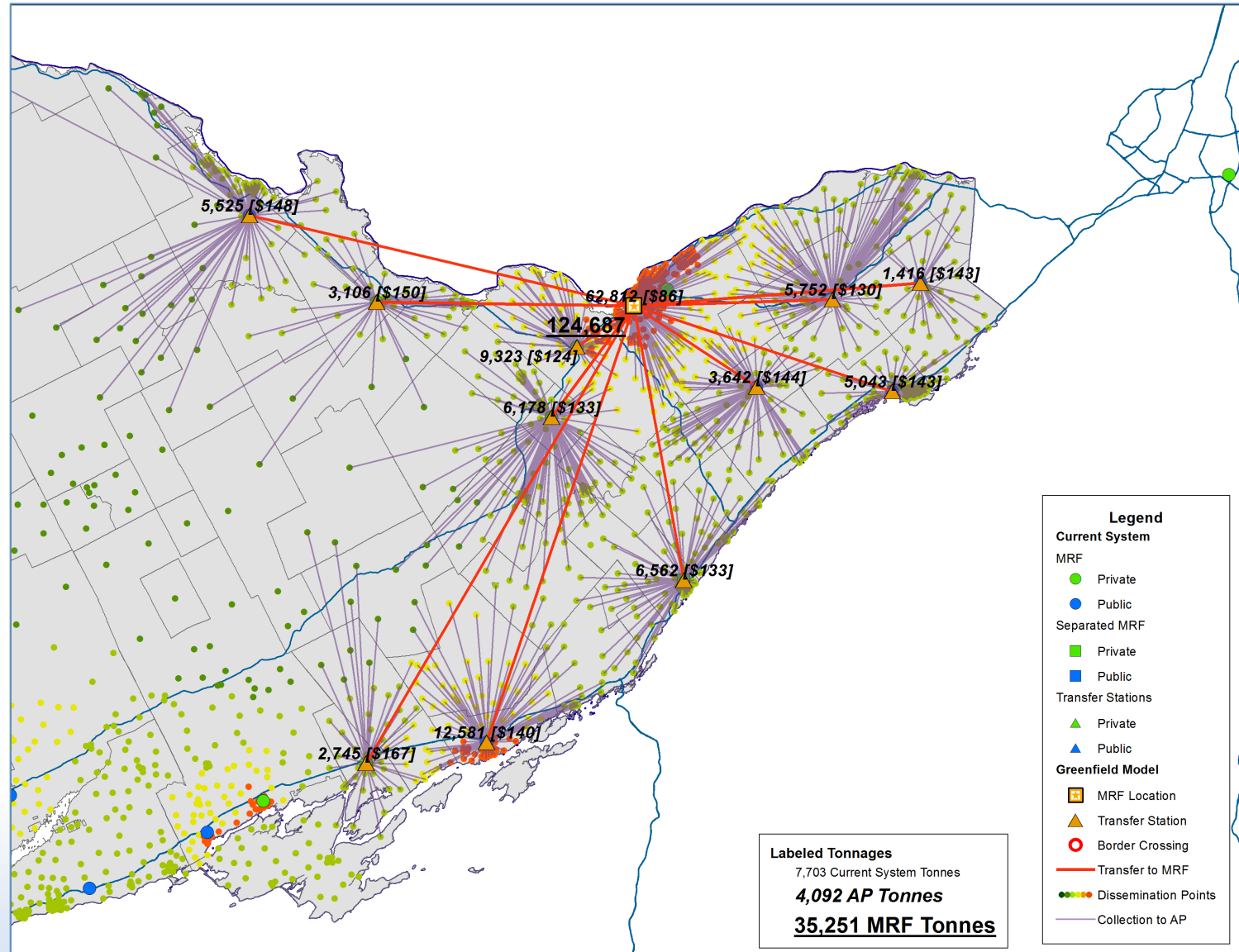
Aaron Burman

CIF Project # 462

Province-wide GIS Model Showed Potential For Savings in Different Waste Sheds (1)



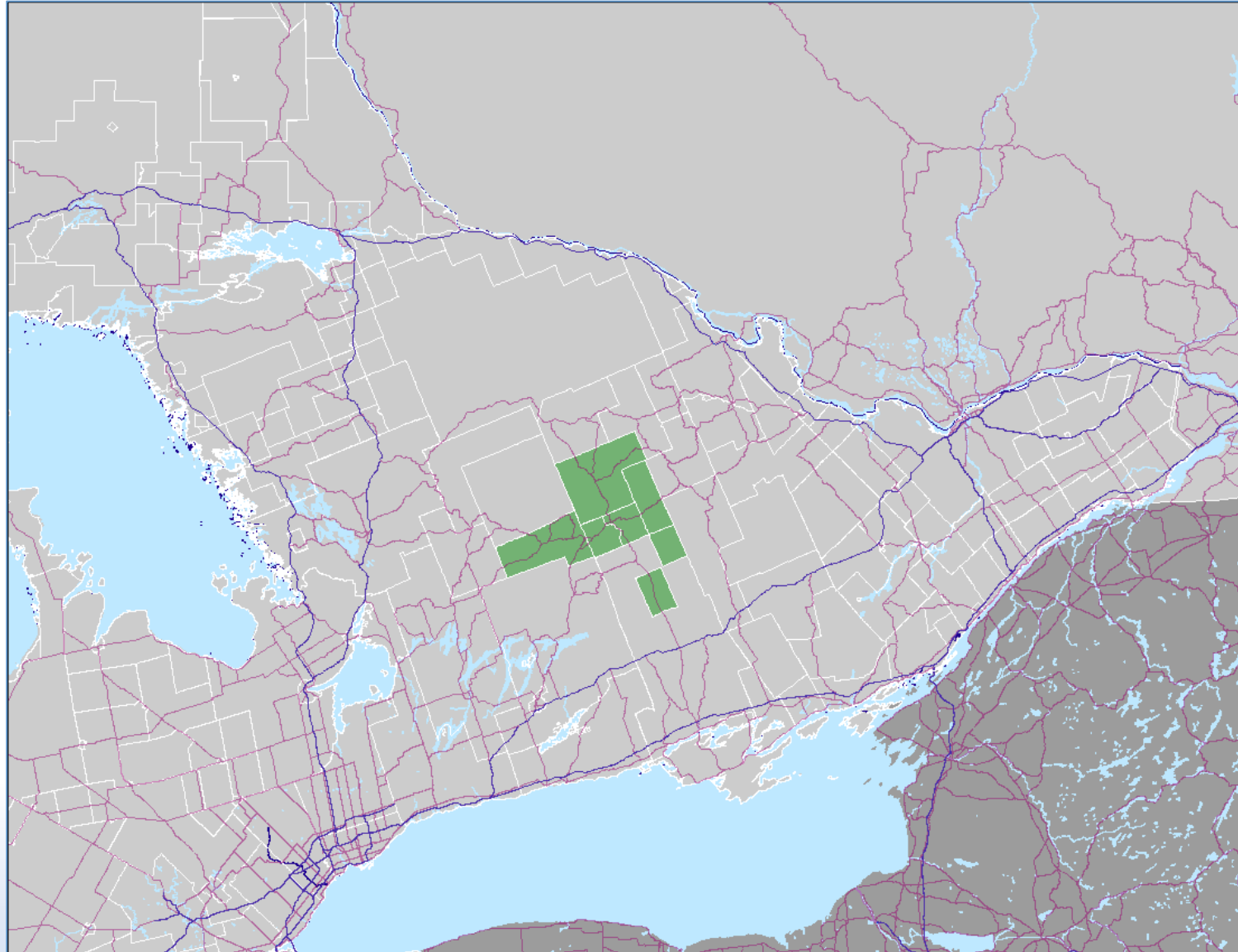
Province-wide GIS Model Showed Potential For Savings in Different Waste Sheds (2)



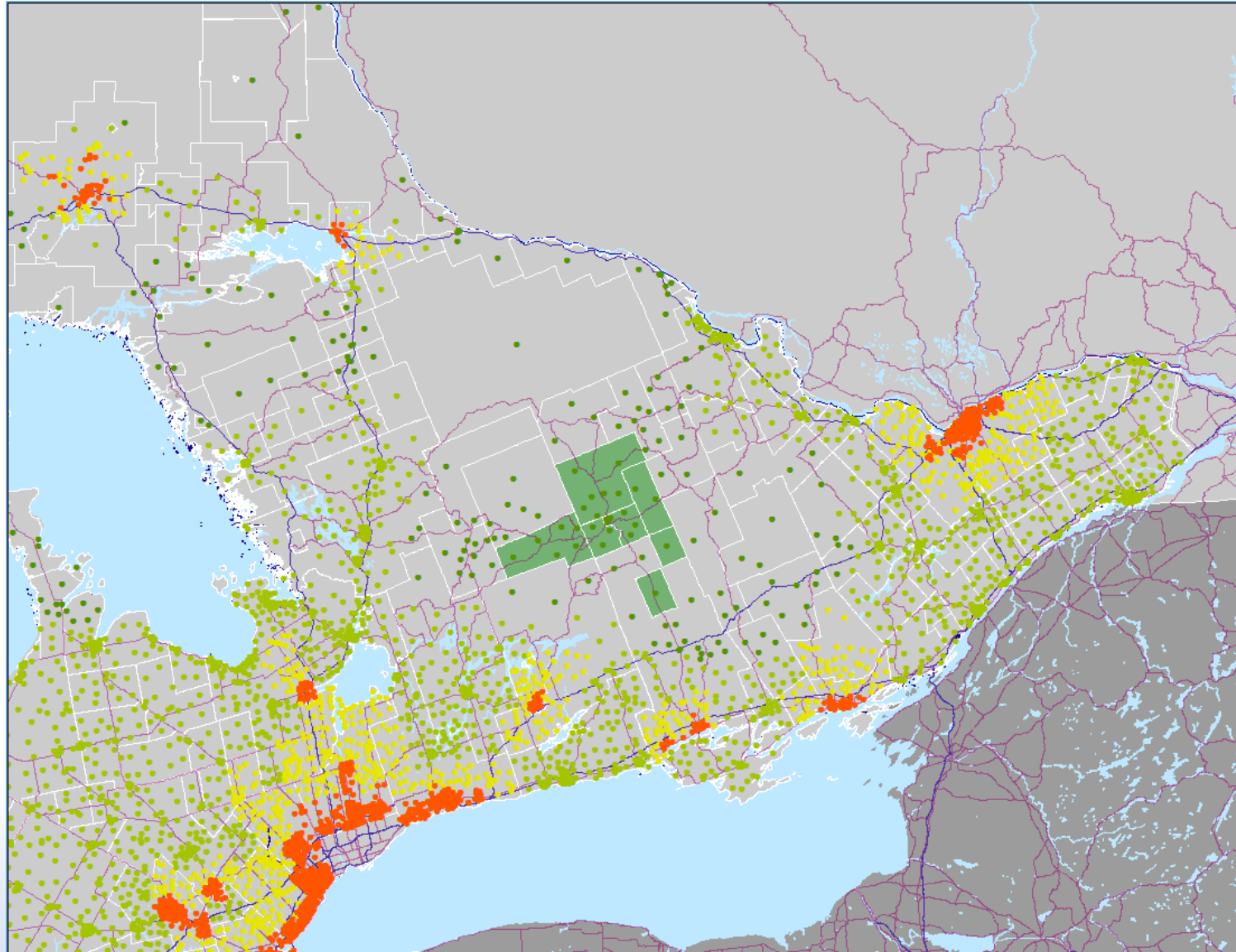
Model Being Redeployed To Analyze Specific Regional Scenarios

- Piloting different local analytical tools
 - Optimum location of infrastructure
 - Regional scale & not just individual municipalities
 - Rural front-load routes
- Model updates
 - Reinstate municipal borders
 - Input specific local depots instead of census points
 - Input actual tonnage data for depots or curbside routes
 - Can backfill with WDO data & estimations where not available

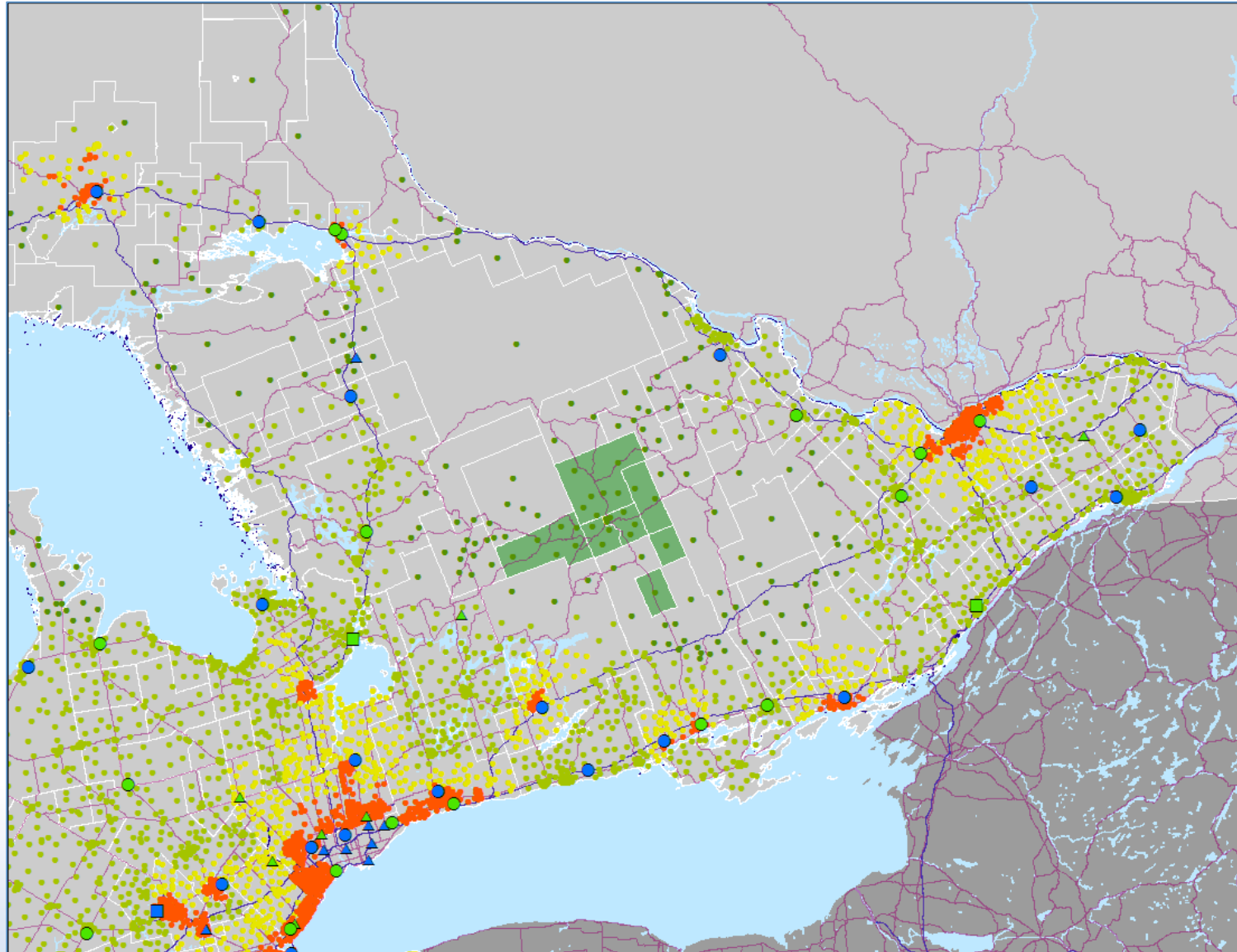
Base Set of Data Includes Census Points & Existing MRFs & TSs (1)



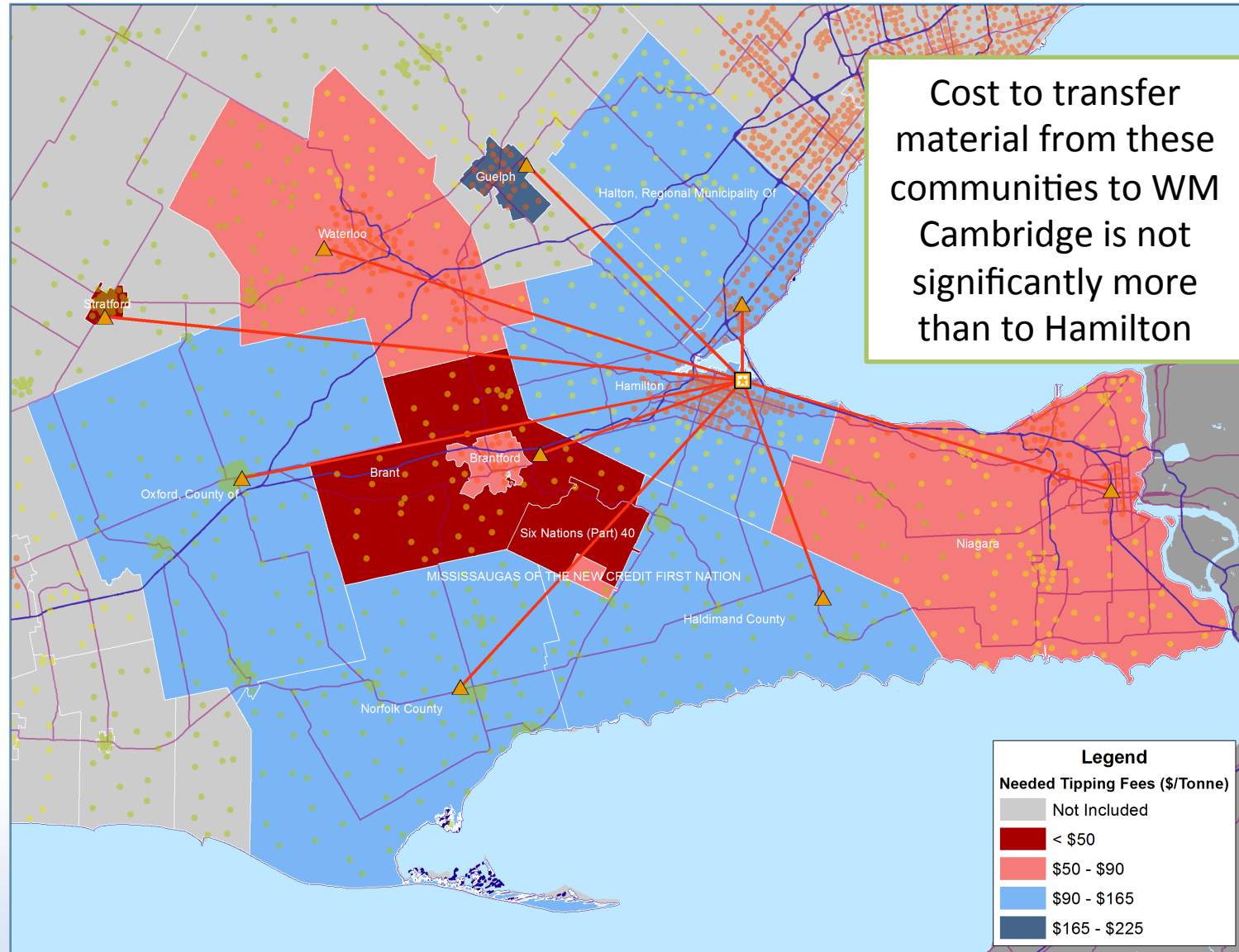
Base Set of Data Includes Census Points & Existing MRFs & TSs (2)



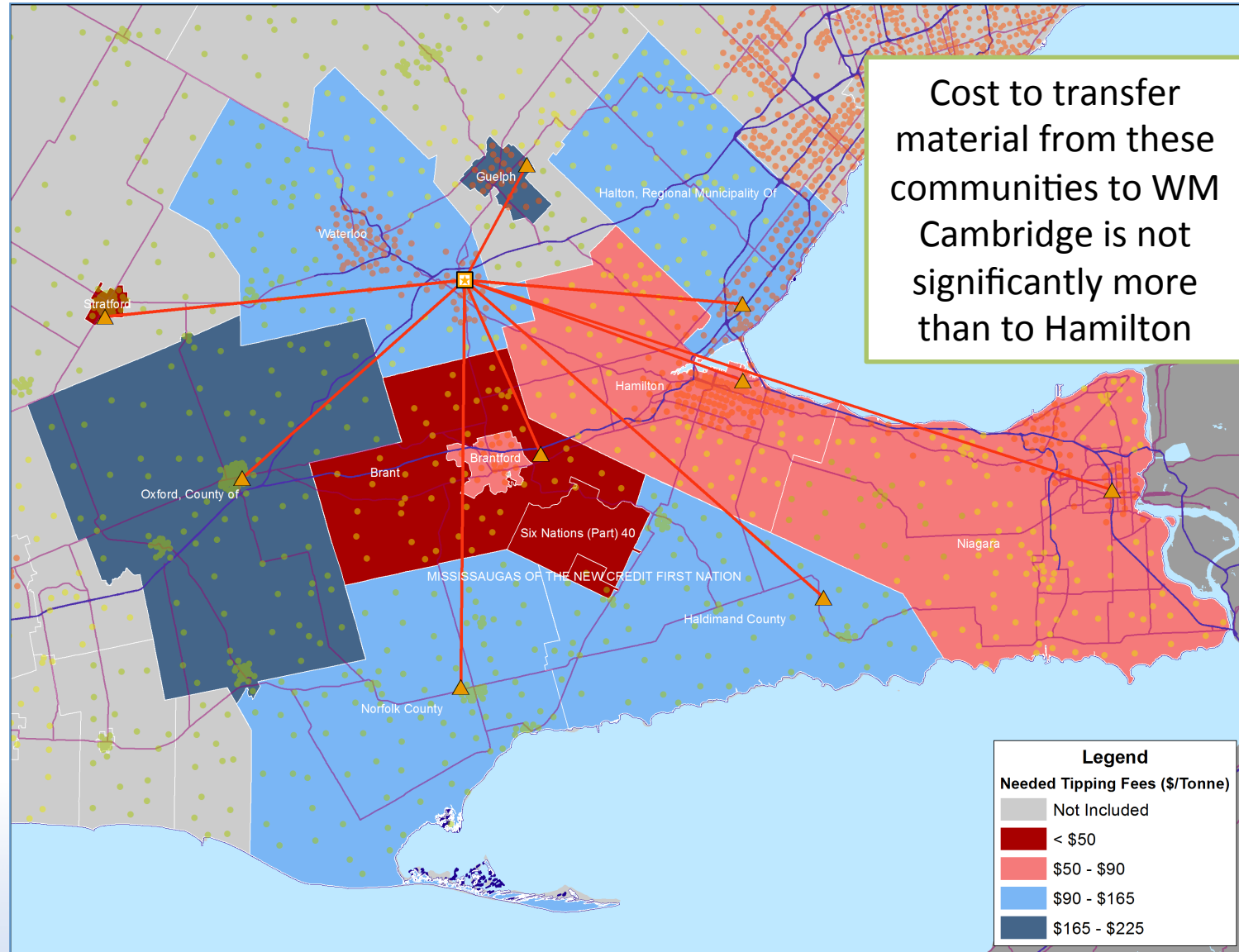
Base Set of Data Includes Census Points & Existing MRFs & TSs (3)



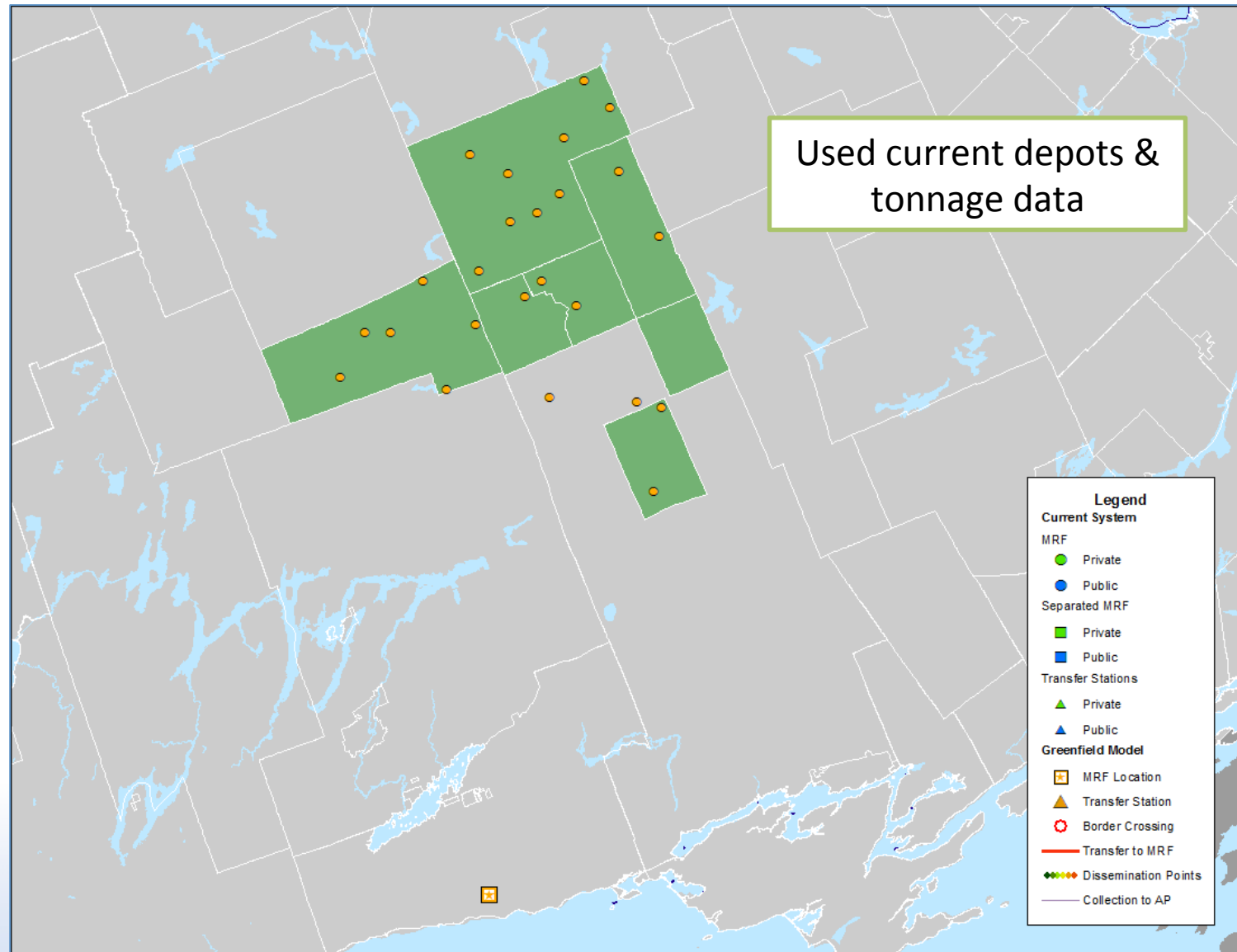
Although Model Chose Hamilton as Optimum MRF Location, Other Regional Sites Can Be Cost Effective Hubs (1)



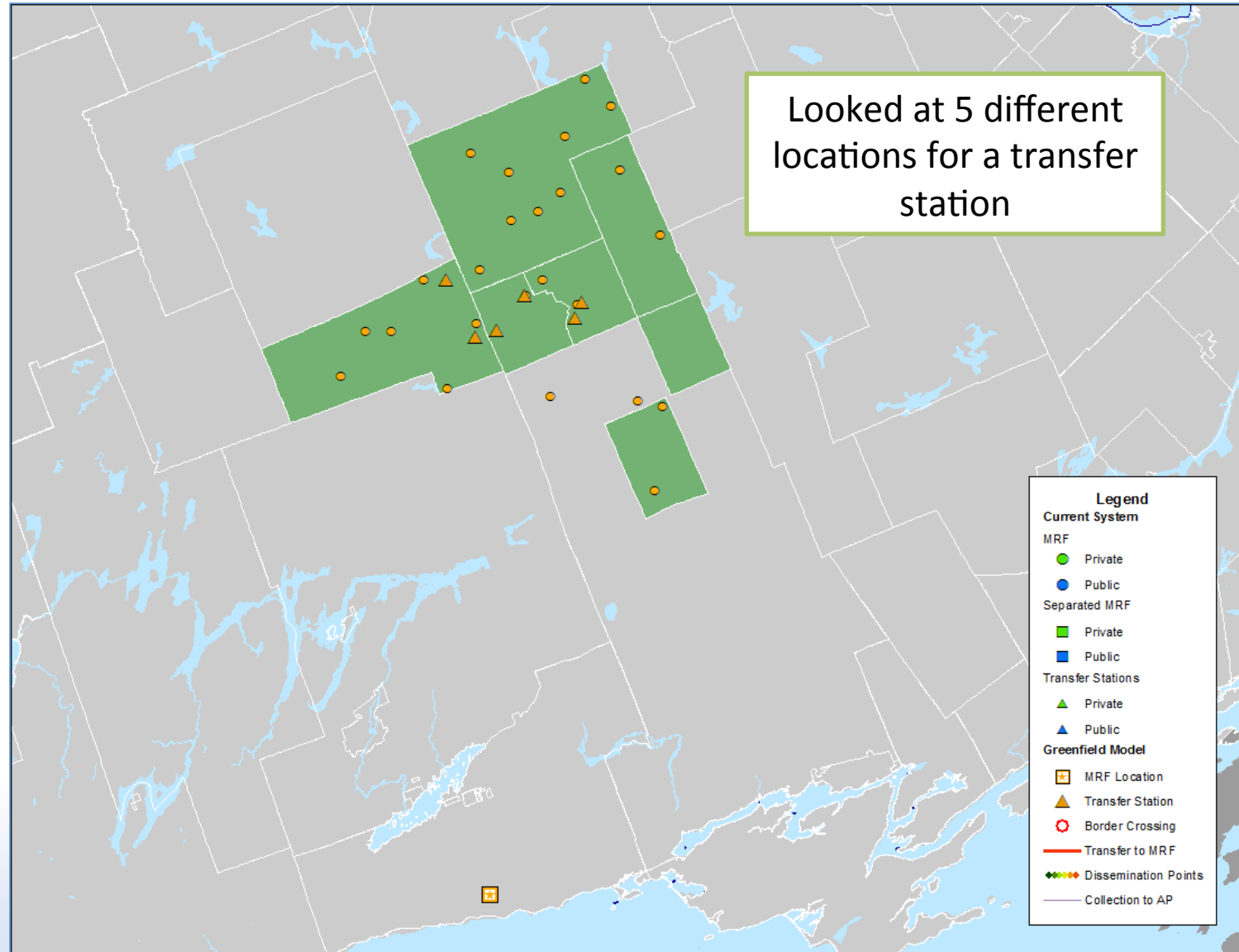
Although Model Chose Hamilton as Optimum MRF Location, Other Regional Sites Can Be Cost Effective Hubs (2)



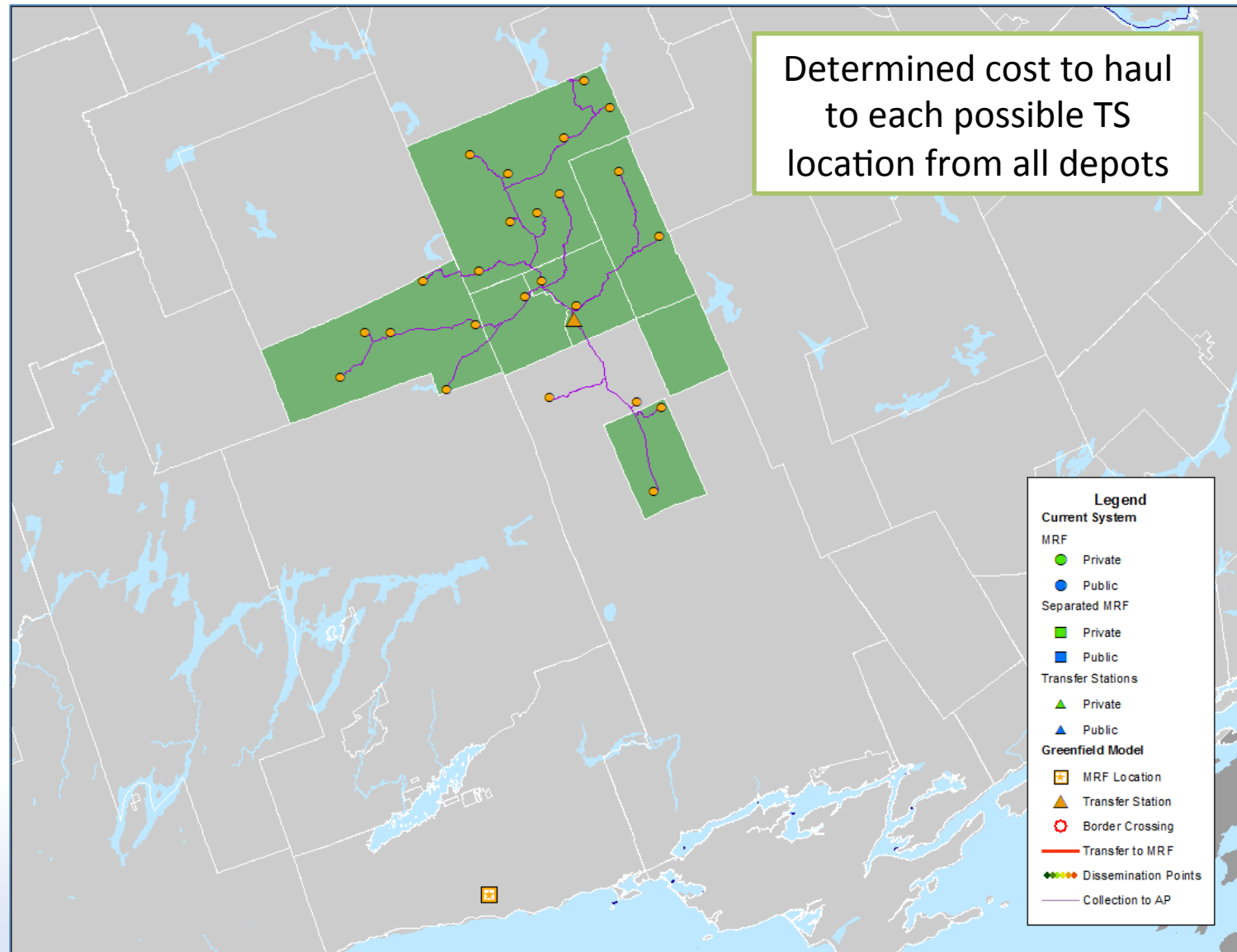
Applied Model for a Group Of Communities Near Bancroft (1)



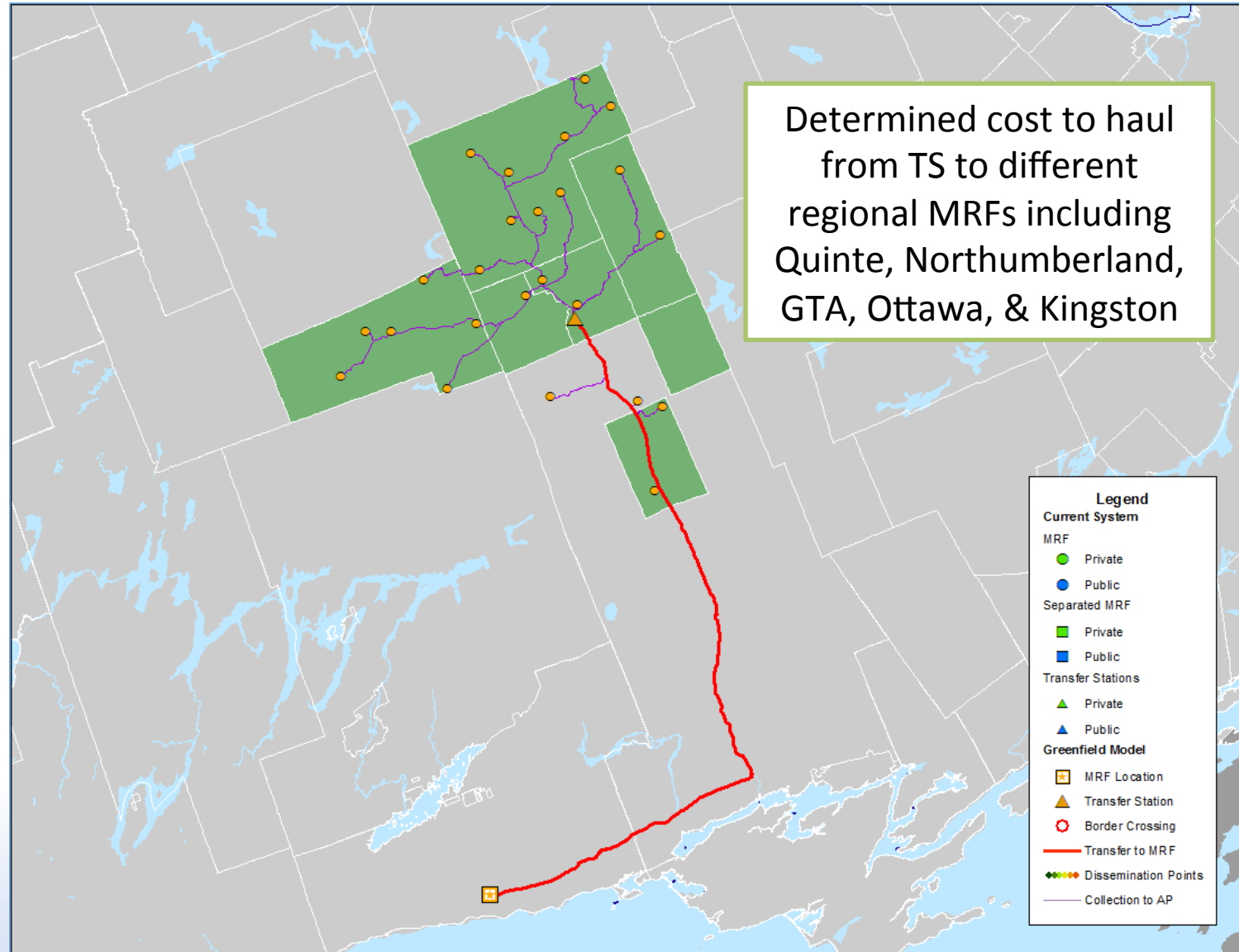
Applied Model for a Group Of Communities Near Bancroft (2)



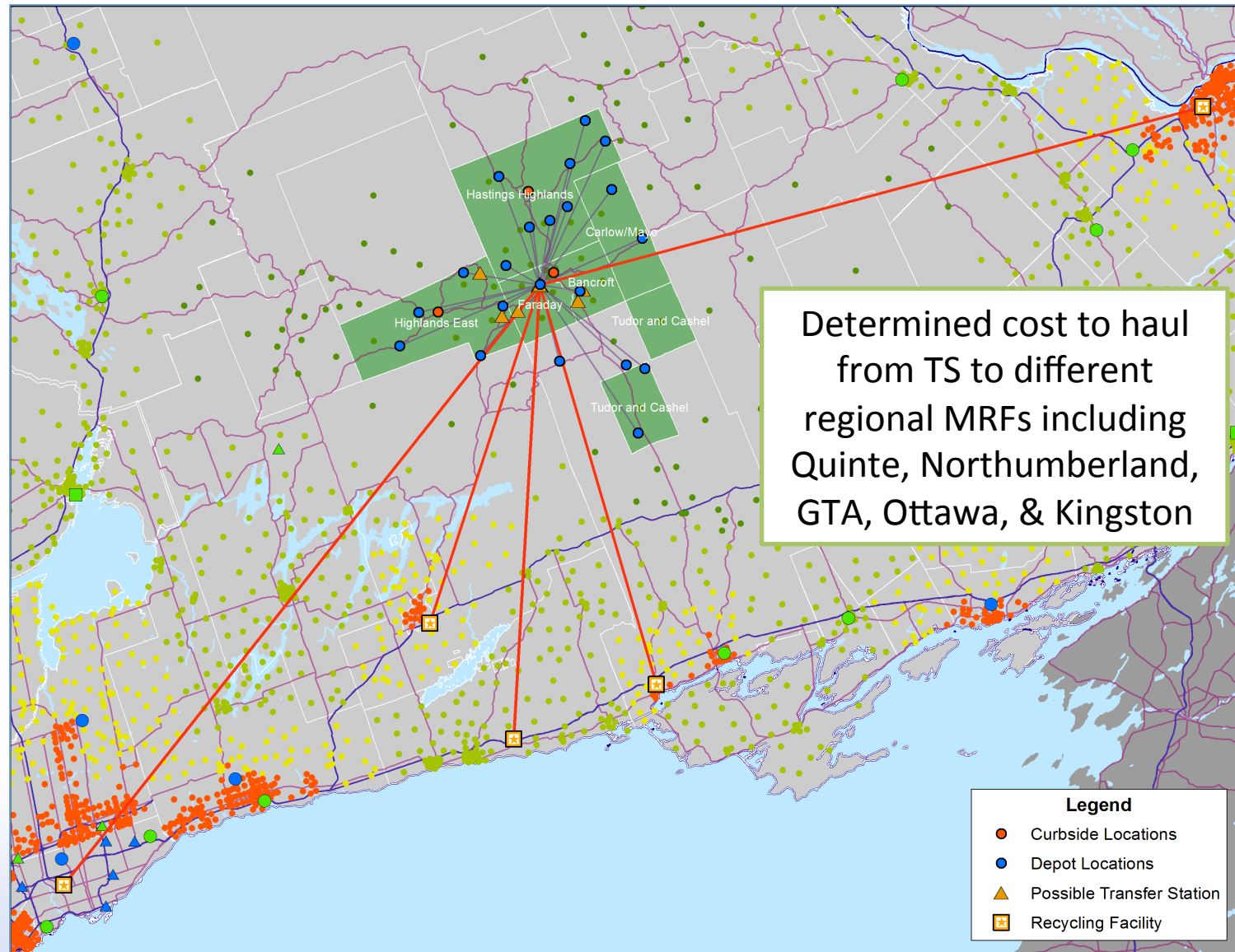
Applied Model for a Group Of Communities Near Bancroft (3)



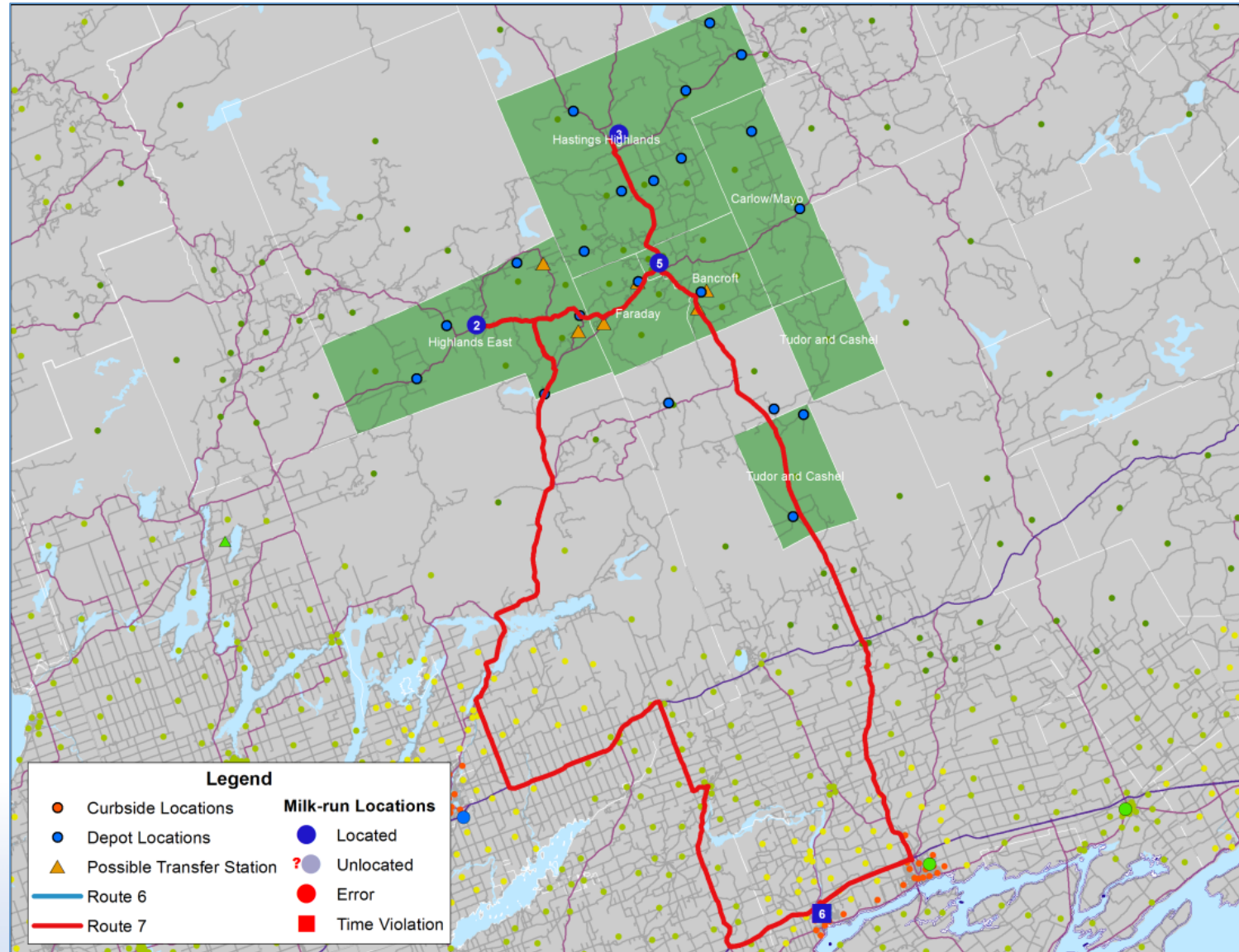
Applied Model for a Group Of Communities Near Bancroft (4)



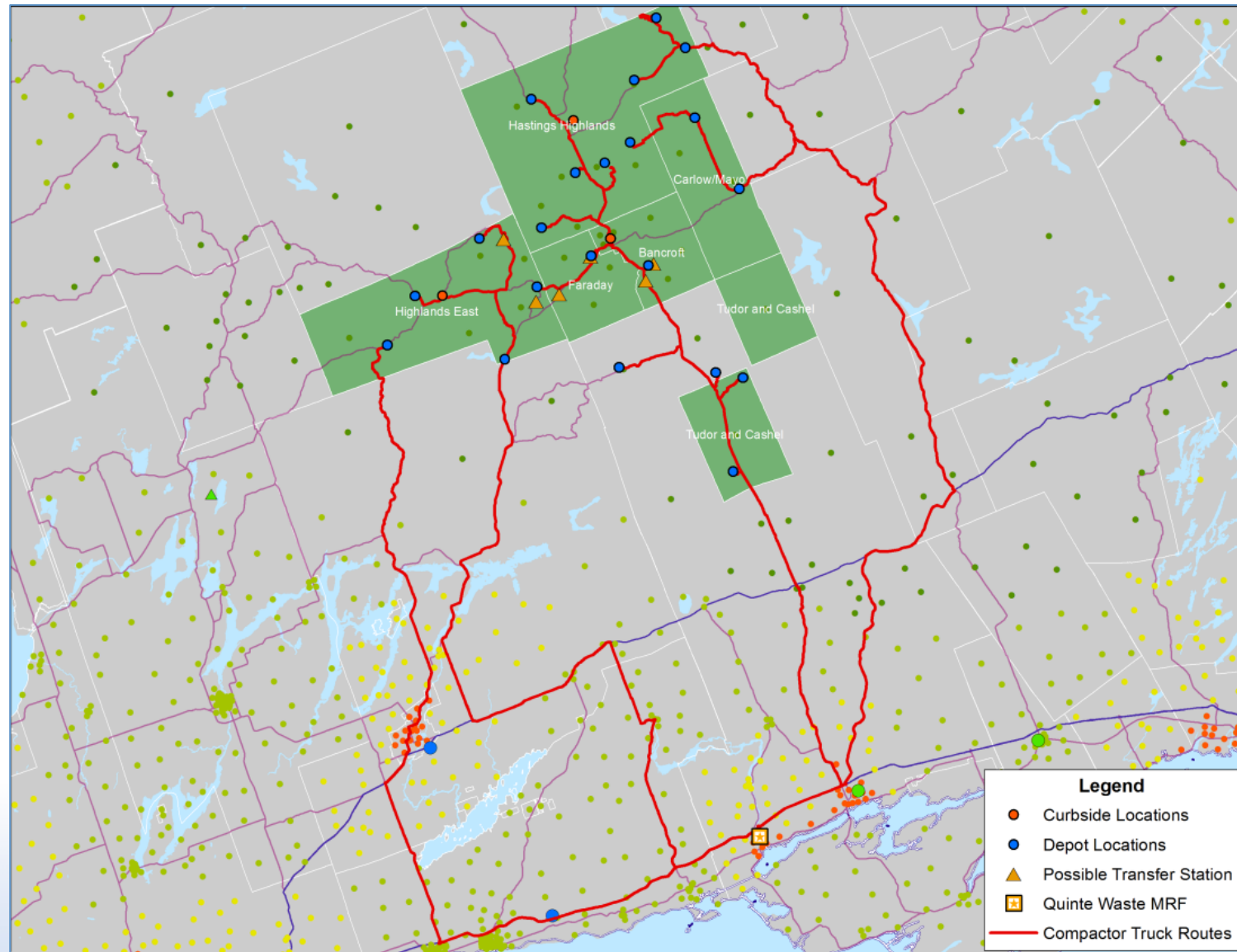
Applied Model for a Group Of Communities Near Bancroft (5)



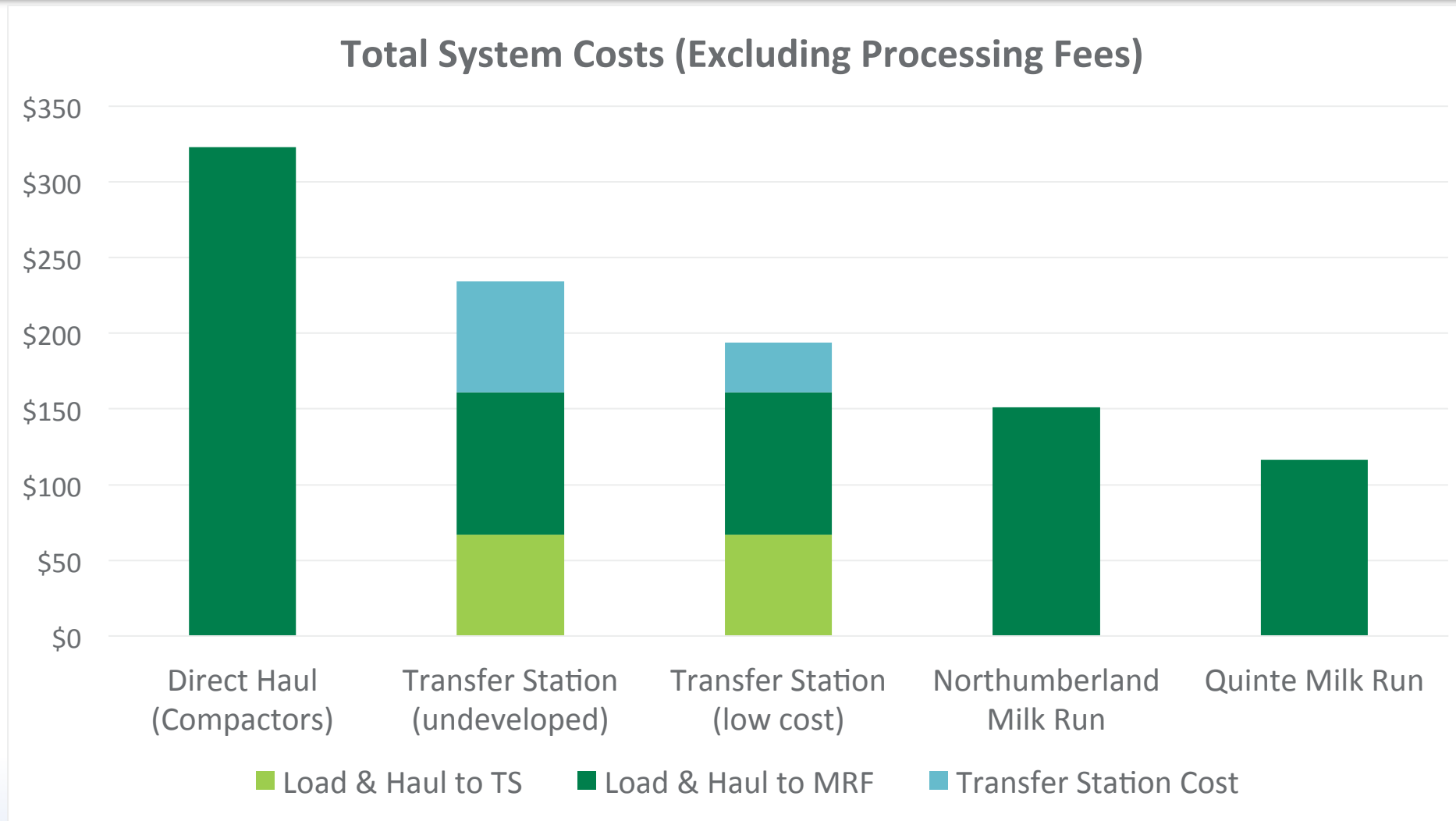
Also Analyzed Cost to Service All Depots by Front Load Route



And Cost to Place Compactors at Each Depot Site or One in Each Program



Model Output of Comparison of Different Options



Conclusions

- Powerful tool to analyze regional infrastructure investments
- Focus on specific programs that are looking for solutions
- Trying to marry provincial priorities with individual program priorities



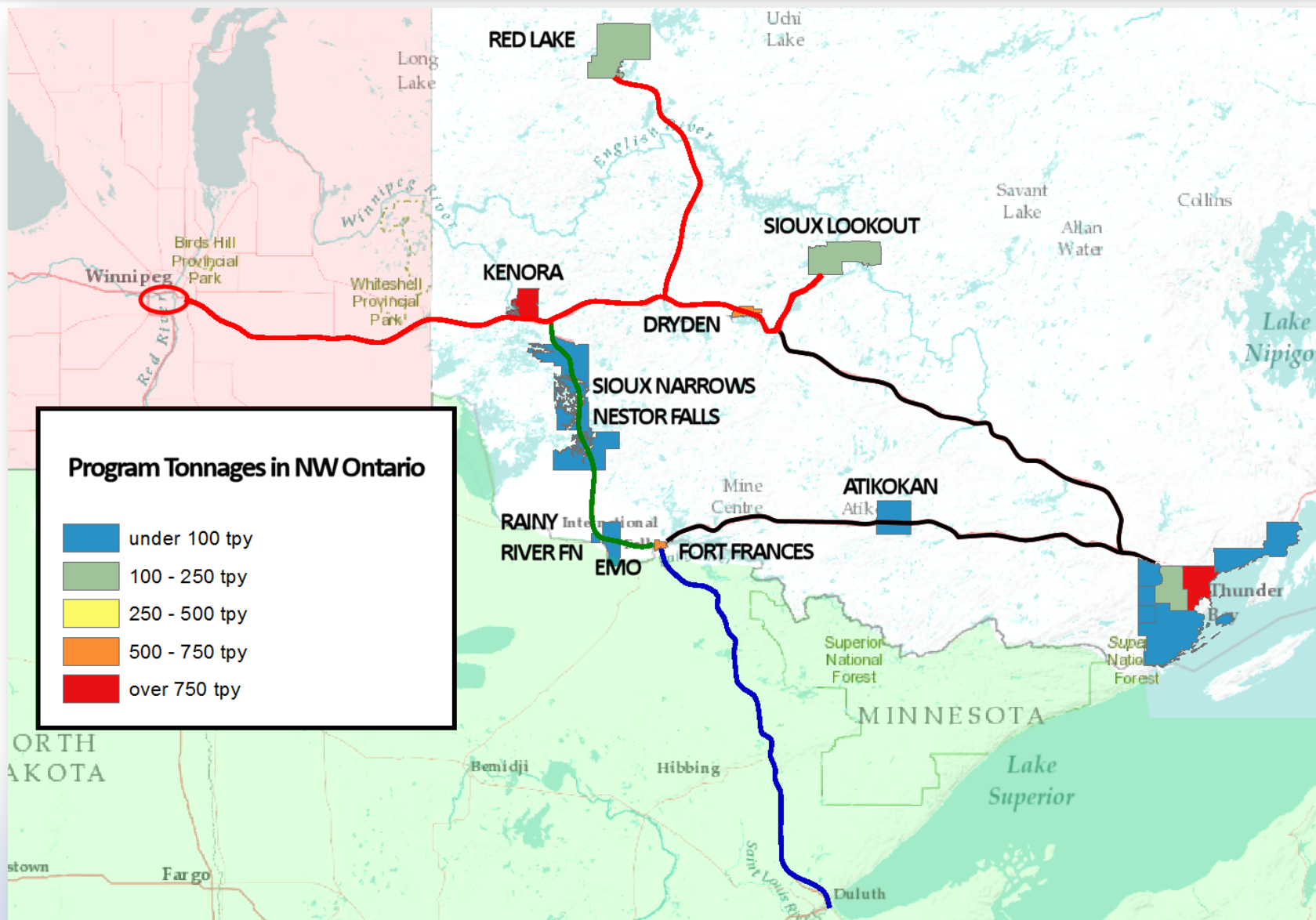
Northwestern Ontario Optimization

Alec Scott
CIF

Blue Box Communities in Northwestern Ontario

Community	Net Cost	Tonnes	Households
Dryden	\$324,171	681 T	3,602
Emo	\$12,074	45 T	732
Fort Frances	\$213,180	528 T	3,813
Kenora	\$507,581	967 T	6,742
Rainy River First Nation	\$24,340	13 T	108
Rainy River Town	\$12,923	29 T	530
Red Lake	\$288,401	213 T	2,135
Sioux Lookout	\$124,440	107 T	2,430
Sioux Narrows Nestor Falls	\$46,450	11 T	1,171

Where it All Goes



Dryden

- Current tonnage 681 TPY
- 2003 to 2009 – small municipal MRF & direct transfer to Winnipeg MRF
- 2010 to present – curbside collection & cooperative with Kenora to transfer to Cascades in Winnipeg
- Curbside collection with transfer depot
 - Transtor unit
 - Compaction trailer
 - Cooperative trucking agreement with Kenora
- Proposed shared compaction trailer to eliminate deadhead trips from Kenora to Dryden

Compaction Trailer and Transtor Unit



Kenora

- Early days – depot collection transfer to Winnipeg
- 2010 to present – curbside collection & cooperative with Dryden to transfer to Cascades in Winnipeg
- Locals still use depot extensively – allows for separation of some OCC & glass
- CIF funds provided:
 - Transfer trailers & a truck for Dryden–Kenora cooperative; &
 - Loading & transfer facility at Kenora
- Future discussion – transferring materials from other programs

Red Lake

- Collection-based program serving 6 communities in Municipality of Red Lake
- Currently collection truck drives to Dryden to transfer load
- Issue – high local prices due to limited competition & preferred service to gold mine
- Proposed compaction trailer, local hydraulic unit & truck shared with other municipal uses
- Direct transfer to Winnipeg

Sioux Lookout

- Until now – local collection & small scale MRF
- Limited data on material recovery
- Proposed – own curbside collection truck & transfer to Dryden
- Sioux Lookout will now handle P&E, program operation & data reporting
- Expect increase in current low recovery rates

Fort Frances

- Until present - lowest cost local program due to backhaul opportunity with kraft paper mill
- Curbside collection – material stored loose at transfer point & shipped loose in walking floor trailer
- Propose – dual 40 yd³ compaction units with 2 extra compaction bins to optimize transfer to Winnipeg
- Roll off haulage can occur out of Winnipeg, returning empty 40 yd³ bins & picking up full bins
- Opportunity – short haul pickup from Sioux Narrows – Nestor Falls, Rainy River First Nations & Emo

Compaction Unit

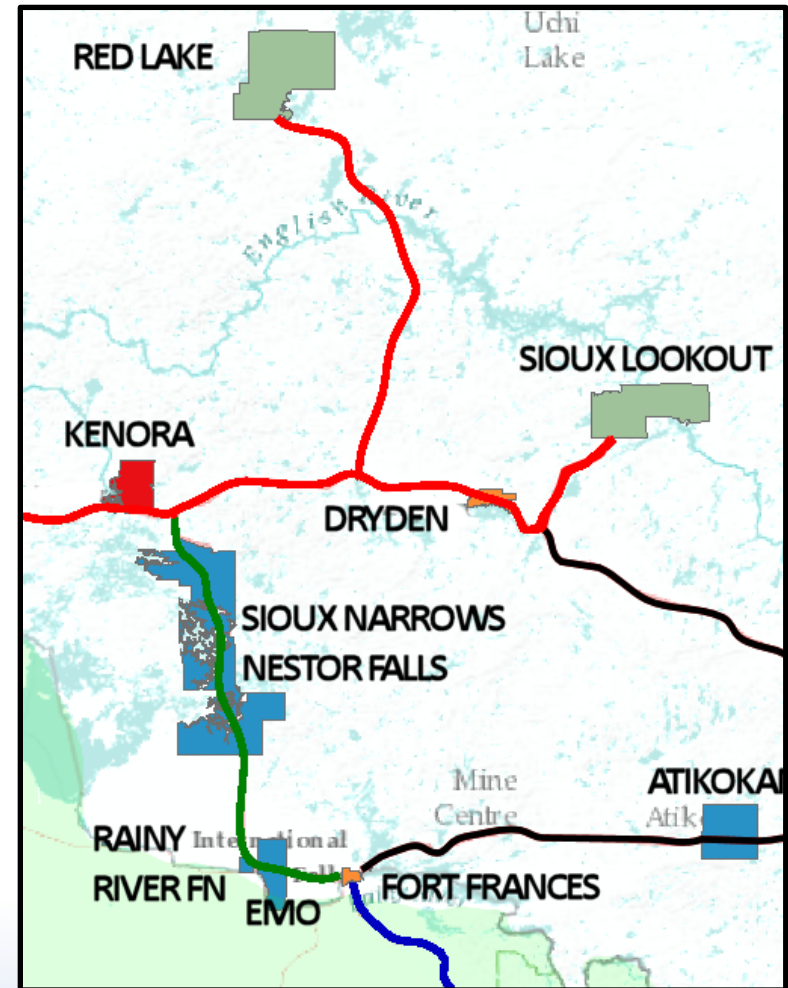


Processing Alternatives

- Recent situation – small MRF in Rainy River area, possible small MRF venture in Dryden, obsolete small MRF in Sioux Lookout
- Present & near future – common bulk deal for processing in Winnipeg
 - Don't want glass
 - Expensive – charge \$45 at door with no revenue-sharing
 - Limited quality information on processed materials
 - Issues with loading & wait times
- Investigating alternatives including other MRF in Winnipeg & MRF in Wisconsin

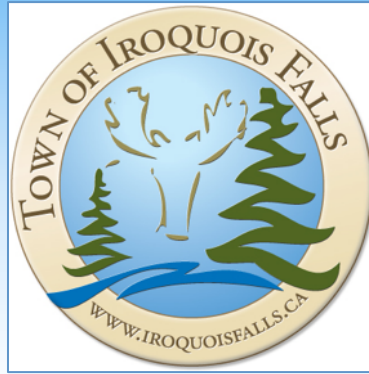
Transfer Alternatives

- Optimize routing
- Standardize equipment where possible
 - Kenora/Dryden route committed to compaction trailers
 - Red Lake cannot readily get roll off service
 - Compaction trailers & roll-off service good alternative on Fort Frances Route



Approaching Optimization

- NW ON is isolated
- NW ON tonnages will always be relatively small
- NW ON operations will remain expensive
- We can optimize operations by making intelligent long range choices to reduce costs as much as possible
- NW ON communities demonstrated commitment to system optimization & they're almost there
- It's still going to be expensive



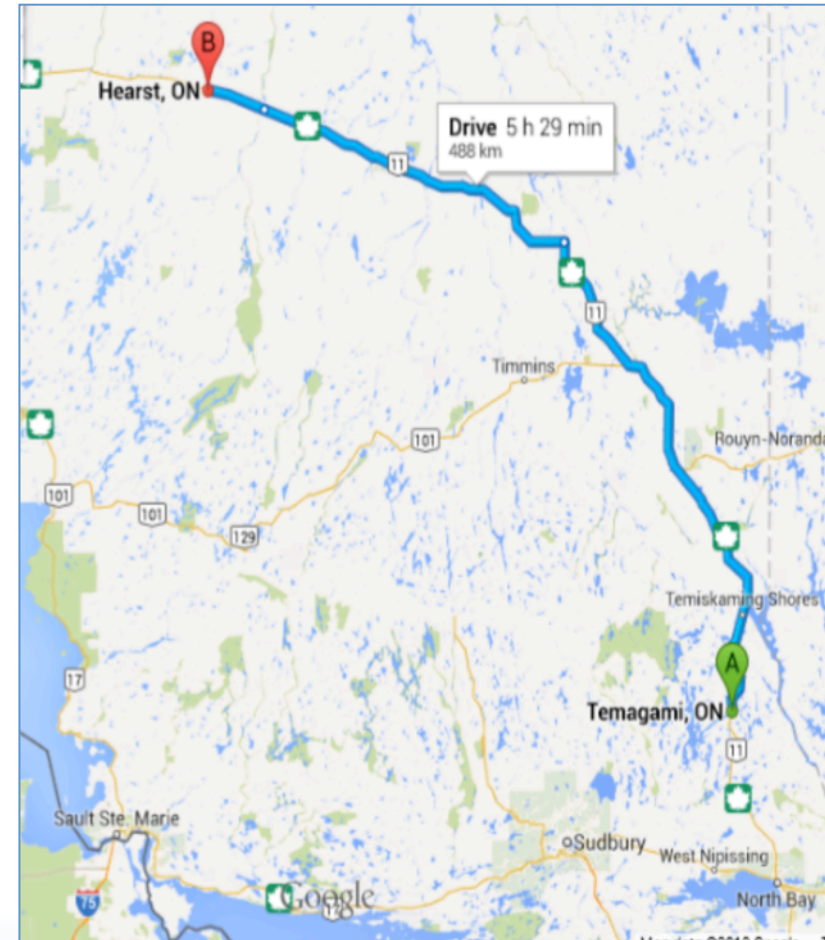
The Power of Partnership: Cochrane Temiskaming Waste Management Board

Mike Kearns

Town of Iroquois Falls

Cochrane Temiskaming Waste Management Board (CTWMB)

- Board includes members from Temagami to Hearst along Highway #11 – 14 members
- Services ~ 20,000 HH, markets 1,742 T
- Municipal Group 8
Net/Cost \$328.63
Municipal Group
Avg. \$643.08



Preparing for Change: Working Together

- Project goal:
 - Modify current service delivery & cost sharing model to ensure sustainability of recycling services in the Northeastern (NE) watershed
- Anticipated impacts:
 - Identification & implementation of opportunities to reduce costs for collection, transfer, hauling & processing
- More information:
 - kearnsm@iroquoisfalls.com

- Service Delivery Model
 - 2 trucks collect recyclables from 30 depots, 1 from northern node & 1 from southern node
 - 2 MRFs (1 northern, 1 southern) process & market recyclables
- Cost-Sharing Arrangement
 - Cost allocated to members on a per HH basis
- Individual Member Costs
 - Depot bins & operation

Current Status

- Service delivery model
 - Collection trucks nearing the end of their useful lives
 - MRFs equipment requires updating
- Cost-sharing arrangement
 - Fee structure
 - Declining member enrolment
- Individual member concerns
 - Depot bins in need of replacement
 - Increasing pressure to offer curbside service



Responding to Change

Go it alone or Continue to work together?

- ***Going it alone*** - allows greater autonomy in decision-making process
 - Adjustments or wholesale program changes can be made without lengthy consultation with other members & councils
- ***Working together*** – partnership allows for economies of scale & cost savings

Going Forward

- Working together:
 - Building on its long standing record of success the committee will engage in review of
 - Current model & opportunities to convert both MRF to Regional transfer points
 - Feasibility of curbside vs. depot or combination systems possibly including garbage collection



Working Together

- Continuation & expansion of cooperative efforts
 - Board has functioned well since 1995 providing participants (especially very small communities) with viable options for recycling
 - This process will be challenging as member municipalities vary in size & composition
 - Finding acceptable system will require cooperation & probably compromise



Goals

- Optimize current system
- Increase diversion & service levels in the most cost effective way possible
 - Respond to push for increased level of service through continued cooperation to achieve economies of scale needed to make the costs manageable



Our Next Steps – Where Do We Go?

- A lot of work ahead
 - Evaluate possible options for each member municipality
 - Present possible options to Board Members

AND THEN?



Our Course of Action

Vision without action is merely a dream.
Action without vision just passes the time.
Vision with action can change the world!
Joel Barker

**ACTION
IS THE BEST
COURSE!**

SUCCESS



www.cartoonmotivators.com

RICHARD
DUSZCZAK

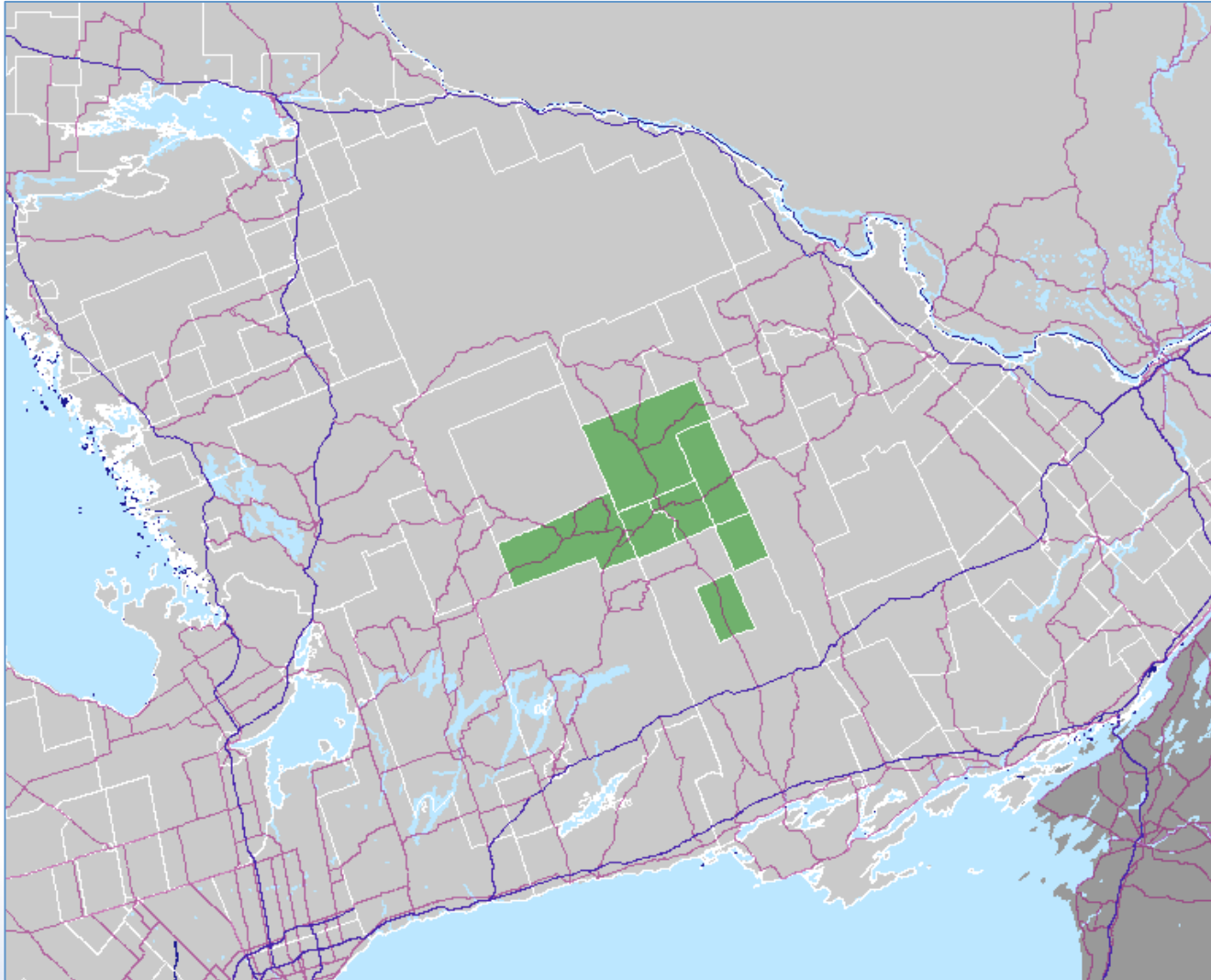


Optimizing Recycling Across Boundaries: Hasting Multi-Municipal Waste Committee

Dave Robb

CIF Project #461

Eastern Ontario – Municipal Locations



Project Participants – System Description

Municipality	HH*	BB Tonnes	Depot	Curbside
Bancroft	1896	366	1	Yes
Carlow/Mayo	694	83	2	No
Faraday	1308	138	1	No
Highlands East	4306	352	5	Yes
Hastings Highlands	3776	349	9	Yes
Tudor & Cashel	586	59	2	No
Wollaston	1176	86	1	No
Limerick			1	No

*HH=households

Project Overview: System Optimization

- Project goal:
 - evaluate BB system options & implement system change to realize capital & operating cost savings
- Anticipated impacts:
 - Standardize materials collected
 - Establish common operating systems & service provider
 - Reduce operating costs
- More information:
 - Dave Robb: drobb@hastingshighlands.ca
 - Brenda Vader: clerk@faraday.ca

System Scenarios Being Reviewed

- System status quo
- Alternate depot & curbside collection methods (cart, roll off, compacted roll off, front end)
- Direct haul of recyclables to processor
 - e.g. front end, compacted roll off etc.
- Regional recycling transfer facility to serve curbside & depot programs

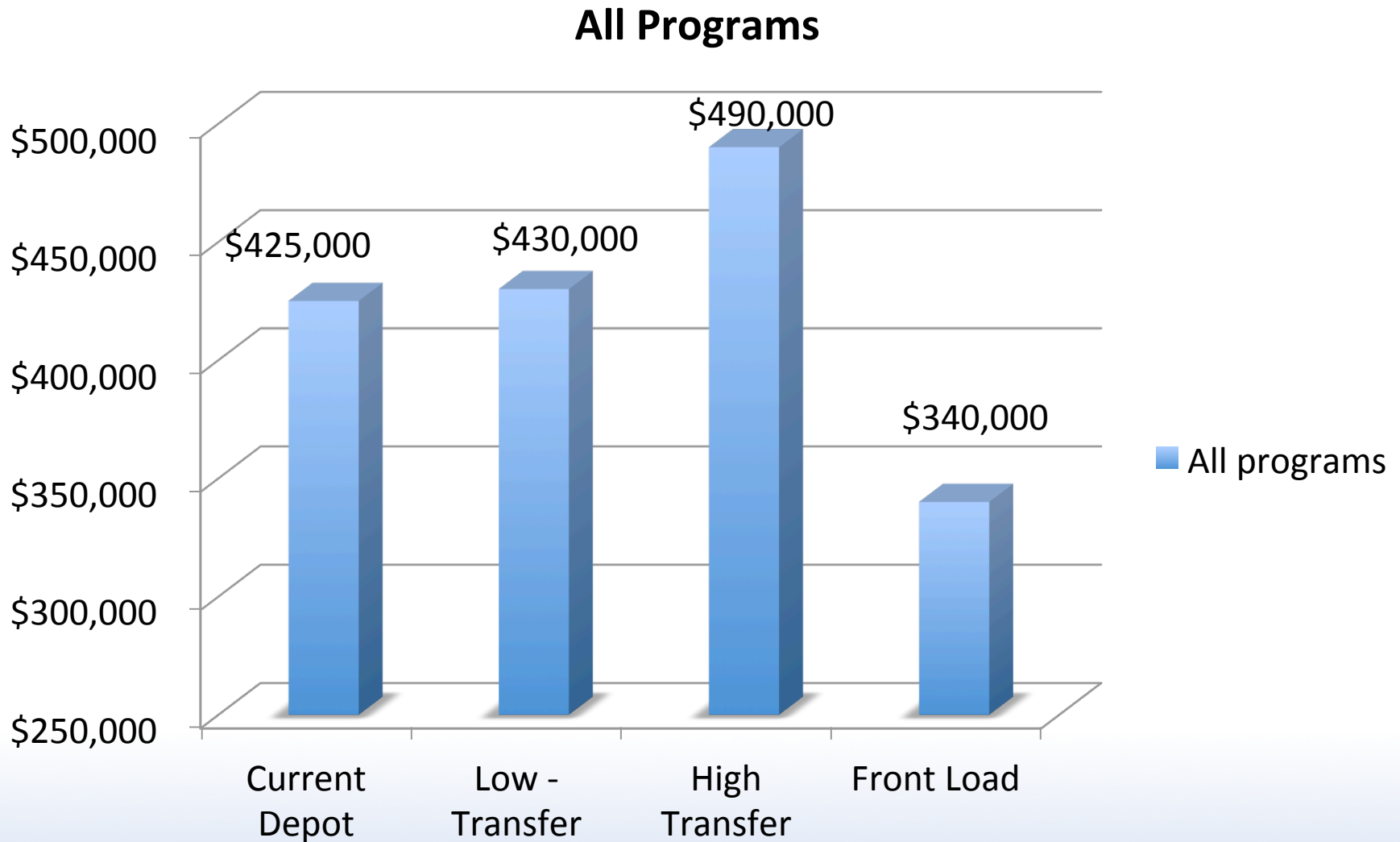
Potential Outcomes

- Expectations
 - Current system of individual depots can be improved upon
 - Central transfer station for BB materials is a long term solution
 - Central transfer that is equipped with compaction units will greatly reduce transport costs
 - Municipalities will have a greater ability to send recyclables to competitive processor market

Draft Findings

- Each depot with compaction unit – found to be too costly
- Central transfer @ private or municipal locations close to current costs
- Reviewing front end collection system
- Estimated number of dumpsters at each site: 1 – 6 (8 cu yd dumpsters)
 - Total Capital Cost: \$46,400
- Estimated needed pickup frequency using weekly estimates
- Assumed 55% of tonnage during peak season
- Costs are for peak season routes
- Finding – one truck is fully utilized

Draft Findings: Program Costs



Next Steps (1)

- Verification process
 - Confirm current depot costs & tonnages
 - Verify inputs into model to ensure fair & equitable comparison of current system vs. transfer vs. front end
- Report
 - Assuming Front Load provides a possible solution...
 - Report to council to move forward with RFP for front end depot services & revised curbside collection

Next Steps (2)

- If Front Load proves cost effective
 - Request CIF support for front end bins purchase to enable municipalities to choose any service provider
 - Possibly consider local economic development opportunity to provide service via owning the front end truck
- Plan B – if Front Load RFP does not provide cost savings
 - Enable central transfer station option
 - Put out RFP for central transfer station

Questions?



CIF Centre of Excellence Training

Carrie Nash

WDO

Program-Specific Training for BB Program Operators

- Round table series
 - 3 MR round table meetings
 - Distill learnings from 30+ MR projects to date
 - Renée Dello to report out on project results today
- Contracts Management Training
 - 20+ successful participants
 - each participant developed full contract management plan
 - help reduce risk & control costs

Coming Up...

- Benchmarking & Measurement: The Road to Continuous Improvement
 - Highlight program components that need to be fixed, ways to measure & communicate impacts
 - First classroom session on October 9 – full house!
 - Second delivery on Wednesday, November 13
 - Peel Region Chinguacousy Ski Chalet
 - Potential Phase 2: Measuring impacts of change – date TBD
- Fundamental Principles in Recycling Planning
 - Early 2014

And More...

- Proposed items under consideration for future
 - ‘Depot toolkit’
 - Auditing protocol for MRFs
 - Updates to P&E shop on CIF website

In Summary...



Enjoy your Lunch!

