LIST OF TABLES

TABLE 1: Change in Per Household Generation	1
TABLE 2: Change in Blue Box Material Recovery	2
TABLE 3: 2011 Ontario Blue Box System Direct Haul and Transfer Operations	3
TABLE 4: Private MRFs Handling Blue Box Materials	9
TABLE 5: Public MRFs Handling Blue Box Materials	9
TABLE 6: Out of Province MRFs Handling ON Blue Box Materials	9
TABLE 7: Private Transfer Stations	10
TABLE 8: Public Transfer Stations	10
TALBE 9: Costing Assumptions	16
TABLE 10: Costing Assumptions by Type of MRF	17
TABLE 11: Costing Assumptions by Type of Transfer Station	18
LIST OF FIGURES	
FIGURE 1: Current System Infrastructure and Material Flow for the Eastern Region	11
FIGURE 2: Current System Infrastructure and Material Flow for the Southwestern Region	12
FIGURE 3: Current System Infrastructure and Material Flow for the Central & GTA Region	13
FIGURE 4: Current System Infrastructure and Material Flow for the GTA Region	14
FIGURE 5: Current System Infrastructure and Material Flow for the Northern Region	15
FIGURE 6: Single Stream Process Flow Diagram	19





TABLE 1: Change in Per Household Generation

Material	Assumed Change
Newspaper	-40.0%
Telephone Books	-75.0%
Old Magazines	-25.0%
Other Printed Paper	10.0%
OCC	35.0%
Gable Top & Aseptic Cartons	40.0%
Paper Laminants	25.0%
OBB	0.0%
PET bottles	30.0%
HDPE bottles & jugs	-10.0%
Polystyrene	-50.0%
Film	-10.0%
Plastic Laminants	30.0%
Other Plastics	60.0%
Aluminum – cans & other	-10.0%
Steel Cans	-20.0%
Aerosol	0.0%
Paint Cans	-30.0%
Container Glass Clear & Coloured	-30.0%
Total Generation	-6.0%



TABLE 2: Change in Blue Box Material Recovery

Year/Scenario	Recovery Rate - 2025				
Material	Current Recovery	Natural Growth	High Recovery		
Newspaper	97.2%	98%	98%		
Telephone Books	97.2%	98%	98%		
Old Magazines	97.2%	98%	98%		
Other Printed Paper	55.6%	60%	75%		
OCC	87.2%	88%	95%		
Gable Top	34.2%	50%	75%		
Paper Laminants	1.0%	5%	30%		
Aseptic	11.8%	30%	75%		
OBB	55.2%	60%	80%		
PET	60.9%	65%	75%		
HDPE	56.6%	60%	75%		
PS	3.9%	10%	50%		
Film	6.4%	15%	40%		
Plastic Laminants	1.0%	1%	10%		
Other Plastics	19.2%	40%	60%		
Aluminum Food & Beverage Cans	49.6%	55%	75%		
Foil and Other Aluminum	9.0%	20%	50%		
Steel Cans	61.1%	65%	75%		
Aerosol	27.7%	30%	50%		
Paint Cans from Steward Reports	18.1%	20%	50%		
Food and Beverage Glass Clear	88.9%	90%	95%		
Food and Beverage Glass Coloured	70.5%	72%	80%		
Total	67.6%	67%	78%		



TABLE 3: 2011 Ontario Blue Box System Direct Haul and Transfer Operations

Municipal Program	Material Flow	Transfer Station Name/ Owner / Operator	Processing Facility OWNER	Processing Facility OPERATOR
DDINGTON HIGHLANDS, TOWNSHIP OF	Direct Haul		Beaumen's Waste Management	Renfrew County Recycle Centre
DMASTON/BROMLEY, TOWNSHIP OF	Direct Haul		Beaumen's Waste Management	Renfrew County Recycle Centre
KEWESANE, MOHAWK COUNCIL OF	Direct Haul		CORNWALL, CITY OF	HGC Management
LFRED AND PLANTAGENET, TOWNSHIP OF	Transfer	Moose Creek Landfill - Matrec	Matrec	Matrec
LGONQUIN HIGHLANDS,TOWNSHIP OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
LIGONQUINS OF PIKWAKANAGAN	Unknown		OTTAWA VALLEY WASTE RECOVERY CENTRE	OTTAWA VALLEY WASTE RECOVERY CENTRE
MARANTH, TOWNSHIP OF	Transfer	Dufferin Transfer & Recycling Facility - Sandhill Disposal	GUELPH, CITY OF	GUELPH, CITY OF
RMOUR, TOWNSHIP OF	Direct Haul		ARMOUR, TOWNSHIP OF	ARMOUR, TOWNSHIP OF
RNPRIOR, TOWN OF	Direct Haul		Beaumen's Waste Management	Renfrew County Recycle Centre
SHFIELD-COLBORNE-WAWANOSH, TOWNSHIP OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
THENS, TOWNSHIP OF	Transfer			
TIKOKAN, TOWNSHIP OF	Direct Haul		Recool Inc.	Recool Inc.
UGUSTA, TOWNSHIP OF	Direct Haul/Transfer		Waste Management of Canada	Waste Management of Canada
UGUSTA, TOWNSHIP OF	Direct Haul/Transfer	Waste Management of Canada	Waste Management of Canada	Waste Management of Canada
YLMER, TOWN OF	Direct Haul		LONDON, CITY OF	Miller Waste Systems - WMC
ALDWIN, TOWNSHIP OF	Direct Haul		GREATER SUDBURY, CITY OF	Canada Fibres
ANCROFT, TOWN OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
ARRIE, CITY OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
AYHAM, MUNICIPALITY OF	Direct Haul		BFI Canada Inc.	BFI Canada Inc.
ECKWITH, TOWNSHIP OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
ILLINGS, TOWNSHIP OF	Unknown			
LIND RIVER, TOWN OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
LUEWATER RECYCLING ASSOCIATION	Direct Haul		BLUEWATER RECYCLING ASSOCIATION	BLUEWATER RECYCLING ASSOCIATION
ONFIELD, TOWNSHIP OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
RANT, COUNTY OF	Direct Haul		Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.
RANTFORD, CITY OF	Direct Haul		Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.
ROCKVILLE, CITY OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
ROCKVILLE, CITY OF	Direct Haul	Waste Management of Canada	Waste Management of Canada	Waste Management of Canada
RUCE AREA SOLID WASTE RECYCLING	Direct Haul		BRUCE AREA SOLID WASTE RECYCLING	BRUCE AREA SOLID WASTE RECYCLING
RUDENELL, LYNDOCH AND RAGLAN, TOWNSHIP OF	Direct Haul		Beaumen's Waste Management	Renfrew County Recycle Centre
ALLANDER, MUNICIPALITY OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
ALVIN, MUNICIPALITY OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
ARLETON PLACE, TOWN OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
ARLING, TOWNSHIP OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
ARLOW MAYO, TOWNSHIP OF	Direct Haul		HGC Management Inc.	HGC Management Inc.
ASEY, TOWNSHIP OF	Direct Haul		Service Sani-Tri	Service Sani-Tri
ASSELMAN, VILLAGE OF	Direct Haul		NORTH GLENGARRY, TOWNSHIP OF	NORTH GLENGARRY, TOWNSHIP OF
ENTRAL ELGIN, MUNICIPALITY OF	Direct Haul		Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.
ENTRAL FRONTENAC, TOWNSHIP OF	Direct Haul		HGC Management Inc.	HGC Management Inc.
ENTRAL MANITOULIN, TOWNSHIP OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
HARLTON AND DACK, MUNICIPALITY OF	Direct Haul		Service Sani-Tri	Service Sani-Tri
HATHAM-KENT, MUNICIPALITY OF	Direct Haul		South Buxton Recycling Ltd	Waste Services INC/ BFI
HATSWORTH, TOWNSHIP OF	Transfer	Dufferin Transfer & Recycling Facility - Sandhill Disposal	GUELPH, CITY OF	GUELPH, CITY OF
CHIPPEWAS OF GEORGINA ISLAND	Unknown	3.11	PETERBOROUGH, CITY OF	HGC Management Inc.





Municipal Program	Material Flow	Transfer Station Name/ Owner / Operator	Processing Facility OWNER	Processing Facility OPERATOR
HIPPEWAS OF KETTLE AND STONY POINT FIRST NATIONS	Unknown		Waste Management of Canada	Waste Management of Canada
HIPPEWAS OF NAWASH FIRST NATION	Direct Haul		BRUCE AREA SOLID WASTE RECYCLING	BRUCE AREA SOLID WASTE RECYCLING
HIPPEWAS OF RAMA FIRST NATION	Unknown		Waste Services INC/ BFI	Waste Services INC/ BFI
HISHOLM, TOWNSHIP OF	Direct Haul		R & D Recycling	R & D Recycling
LARENCE-ROCKLAND, CITY OF	Transfer	Moose Creek Landfill - Matrec	Matrec	Matrec
OCHRANE TEMISKAMING WASTE MANAGEMENT BOARD	Direct Haul		COCHRANE TEMISKAMING WASTE MANAGEMENT BOARD	COCHRANE TEMISKAMING WASTE MANAGEMENT BOARD
OCHRANE TEMISKAMING WASTE MANAGEMENT BOARD	Direct Haul		COCHRANE TEMISKAMING WASTE MANAGEMENT BOARD	COCHRANE TEMISKAMING WASTE MANAGEMENT BOARD
ONMEE, TOWNSHIP OF	Direct Haul		Recool Inc.	Recool Inc.
DRNWALL, CITY OF	Direct Haul		CORNWALL, CITY OF	HGC Management
URVE LAKE FIRST NATION	Direct Haul		PETERBOROUGH, CITY OF	HGC Management Inc.
EEP RIVER, TOWN OF	Direct Haul		OTTAWA VALLEY WASTE RECOVERY CENTRE	OTTAWA VALLEY WASTE RECOVERY CENTRE
ESERONTO, TOWN OF	Unknown			
RUMMOND-NORTH ELMSLEY, TOWNSHIP OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
RYDEN, CITY OF	Transfer	Dryden Landfill - DRYDEN, CITY OF	Metro Recycling	Metro Recycling
URHAM, REGIONAL MUNICIPALITY OF	Direct Haul		DURHAM, REGIONAL MUNICIPALITY OF	Metro Municipal Recycling Services
UTTON-DUNWICH, MUNICIPALITY OF	Direct Haul		BFI Canada Inc.	BFI Canada Inc.
YSART ET AL, TOWNSHIP OF	Direct Haul		Mid Ontario Disposal	Mid Ontario Disposal
YSART ET AL, TOWNSHIP OF	Transfer	Mid Ontario Disposal	Durham Shred & Recycle	Durham Shred & Recycle
AST FERRIS, TOWNSHIP OF	Direct Haul		R & D Recycling	R & D Recycling
AST GARAFRAXA, TOWNSHIP OF	Transfer	Dufferin Transfer & Recycling Facility - Sandhill Disposal	GUELPH, CITY OF	GUELPH, CITY OF
AST LUTHER GRAND VALLEY, TOWNSHIP OF	Transfer	Dufferin Transfer & Recycling Facility - Sandhill Disposal	GUELPH, CITY OF	GUELPH, CITY OF
DWARDSBURGH CARDINAL, TOWNSHIP OF	Transfer	BFI Canada	Tomlinson Environmental Services	Tomlinson Environmental Services
IZABETHTOWN-KITLEY, TOWNSHIP OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
LIOT LAKE, CITY OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
MO, TOWNSHIP OF	Transfer	Asselin Transportation	Cascades Winnipeg	Cascades Winnipeg
NNISKILLEN, TOWNSHIP OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
SPANOLA, TOWN OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
SSEX-WINDSOR SOLID WASTE AUTHORITY	Direct Haul		ESSEX-WINDSOR SOLID WASTE AUTHORITY	ESSEX-WINDSOR SOLID WASTE AUTHORITY
ARADAY, TOWNSHIP OF	Direct Haul		PETERBOROUGH, CITY OF	HGC Management Inc.
DRT FRANCES, TOWN OF	Transfer	FORT FRANCES, TOWN OF	Metro Recycling	Metro Recycling
RENCH RIVER, MUNICIPALITY OF	Direct Haul		GREATER SUDBURY, CITY OF	Canada Fibres
RONT OF YONGE, TOWNSHIP OF	Unknown		Waste Management of Canada	Waste Management of Canada
RONT OF YONGE, TOWNSHIP OF	Unknown	Waste Management of Canada	Waste Management of Canada	Waste Management of Canada
RONTENAC ISLANDS, TOWNSHIP OF	Direct Haul		KINGSTON, CITY OF	BFI Canada
ANANOQUE, TOWN OF	Transfer	BFI Canada	Tomlinson Environmental Services	Tomlinson Environmental Services
EORGIAN BLUFFS, TOWNSHIP OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
ILLIES, TOWNSHIP OF	Direct Haul		Recool Inc.	Recool Inc.
REATER MADAWASKA, TOWNSHIP OF	Direct Haul		OTTAWA VALLEY WASTE RECOVERY CENTRE	OTTAWA VALLEY WASTE RECOVERY CENTRE
REATER NAPANEE, TOWNSHIP OF	Direct Haul		Manco	Manco
REATER SUDBURY, CITY OF	Direct Haul		GREATER SUDBURY, CITY OF	Canada Fibres
REY HIGHLANDS, MUNICIPALITY OF	Transfer	Dufferin Transfer & Recycling Facility - Sandhill Disposal	GUELPH, CITY OF	GUELPH, CITY OF
UELPH, CITY OF	Direct Haul		GUELPH, CITY OF	GUELPH, CITY OF
ALDIMAND, COUNTY OF	Transfer	Canborough Recycling Transfer Station	NIAGARA, REGIONAL MUNICIPALITY OF	Niagara Recycling (MRF Processor)
ALTON, REGIONAL MUNICIPALITY OF	Transfer	Leferink Transfer Limited	Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.
ALTON, REGIONAL MUNICIPALITY OF	Transfer	NorJohn Transfer System Ltd Walker Industries	Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.
AMILTON, CITY OF	Direct Haul		HAMILTON, CITY OF	Canada Fibers
N, REGIONAL MUNICIPALITY OF	Transfer		Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.





Municipal Program	Material Flow	Transfer Station Name/ Owner / Operator	Processing Facility OWNER	Processing Facility OPERATOR
HARLEY, TOWNSHIP OF	Direct Haul		Service Sani-Tri	Service Sani-Tri
ASTINGS HIGHLANDS, MUNICIPALITY OF	Unknown		HGC Management Inc.	HGC Management Inc.
ASTINGS HIGHLANDS, MUNICIPALITY OF	Transfer/Unknown Transfer	Roslin - David Moore & Sons	NORTHUMBERLAND, COUNTY OF	NORTHUMBERLAND, COUNTY OF
AWKESBURY JOINT RECYCLING	Direct Haul		NORTH GLENGARRY, TOWNSHIP OF	NORTH GLENGARRY, TOWNSHIP OF
EAD, CLARA AND MARIA, TOWNSHIPS OF	Direct Haul		OTTAWA VALLEY WASTE RECOVERY CENTRE	OTTAWA VALLEY WASTE RECOVERY CENTRE
IGHLANDS EAST, MUNICIPALITY OF	Transfer	Gooderham Transfer Station	Waste Services INC/ BFI	Waste Services INC/ BFI
ILLIARD, TOWNSHIP OF	Unknown			
ORTON, TOWNSHIP OF	Direct Haul		Beaumen's Waste Management	Renfrew County Recycle Centre
OWICK, TOWNSHIP OF	Unknown			
UDSON, TOWNSHIP OF	Direct Haul		Service Sani-Tri	Service Sani-Tri
URON SHORES, MUNICIPALITY OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
DHNSON, TOWNSHIP OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
AWARTHA LAKES, CITY OF	Direct Haul		NORTHUMBERLAND, COUNTY OF	NORTHUMBERLAND, COUNTY OF
EARNEY, TOWN OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
ENORA, CITY OF	Transfer	Kenora Area Solid Waste Transfer Facility	Metro Recycling	Metro Recycling
ERNS, TOWNSHIP OF	Direct Haul	and the state of t	Service Sani-Tri	Service Sani-Tri
ILLALOE, HAGARTY, AND RICHARDS, TOWNSHIP OF	Direct Haul		Beaumen's Waste Management	Renfrew County Recycle Centre
ILLARNEY, MUNICIPALITY OF	Direct Haul		GREATER SUDBURY, CITY OF	Canada Fibres
NGSTON, CITY OF	Direct Haul		KINGSTON, CITY OF	BFI Canada
RKLAND LAKE, TOWN OF	Direct Haul		Teck Northern Roads	Teck Northern Roads
ANARK HIGHLANDS, TOWNSHIP OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
AURENTIAN HILLS, TOWN OF	Direct Haul		OTTAWA VALLEY WASTE RECOVERY CENTRE	OTTAWA VALLEY WASTE RECOVERY CENTRE
EEDS AND THE THOUSAND ISLANDS, TOWNSHIP OF	Unknown		OTTAWA VALLET WASTE RECOVERT CENTRE	OTTAWA VALLET WASTE RECOVERT CENTRE
·	Direct Haul		LONDON, CITY OF	Miller Waste Systems - WMC
ONDON, CITY OF DYALIST, TOWNSHIP OF	Direct Haul			
IACDONALD, MEREDITH & ABERDEEN ADDITIONAL, TOW			KINGSTON, CITY OF MWRC	BFI Canada
				Municipal Waste Services & Recycling Consultants
MACHAR, TOWNSHIP OF	Unknown		Waste Services INC/ BFI	Waste Services INC/ BFI
IADAWASKA VALLEY, TOWNSHIP OF	Direct Haul		OTTAWA VALLEY WASTE RECOVERY CENTRE	OTTAWA VALLEY WASTE RECOVERY CENTRE
IAGNETAWAN, MUNICIPALITY OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
IALAHIDE, TOWNSHIP OF	Direct Haul		BFI Canada Inc.	BFI Canada Inc.
IARATHON, TOWN OF	Direct Haul		Recool Inc.	Recool Inc.
IATTAWA, TOWN OF	Direct Haul		R & D Recycling	R & D Recycling
ACDOUGALL, MUNICIPALITY OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
ICKELLAR, TOWNSHIP OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
ICNAB-BRAESIDE, TOWNSHIP OF	Direct Haul		Beaumen's Waste Management	Renfrew County Recycle Centre
MEAFORD, MUNICIPALITY OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
IELANCTHON, TOWNSHIP OF	Direct Haul		GUELPH, CITY OF	GUELPH, CITY OF
IERRICKVILLE-WOLFORD, VILLAGE OF	Unknown			
IINDEN HILLS, TOWNSHIP OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
IISSISSAUGAS OF THE NEW CREDIT FIRST NATION	Unknown			
IISSISSIPPI MILLS, TOWN OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
10HAWKS OF THE BAY OF QUINTE	Direct Haul		HGC Management Inc.	HGC Management Inc.
IONO, TOWN OF	Transfer	Dufferin Transfer & Recycling Facility - Sandhill Disposal	GUELPH, CITY OF	GUELPH, CITY OF
IONTAGUE, TOWNSHIP OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
IULMUR, TOWNSHIP OF	Direct Haul		Mid Ontario Disposal	Mid Ontario Disposal
IULMUR, TOWNSHIP OF	Transfer	Mid Ontario Disposal	Durham Shred & Recycle	Durham Shred & Recycle
IUSKOKA, DISTRICT MUNICIPALITY OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI





Municipal Program	Material Flow	Transfer Station Name/ Owner / Operator	Processing Facility OWNER	Processing Facility OPERATOR
NAIRN & HYMAN, TOWNSHIP OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
NEEBING, MUNICIPALITY OF	Direct Haul		Recool Inc.	Recool Inc.
NIAGARA, REGIONAL MUNICIPALITY OF	Direct Haul		NIAGARA, REGIONAL MUNICIPALITY OF	Niagara Recycling (MRF Processor)
NORFOLK, COUNTY OF	Direct Haul		NORFOLK, COUNTY OF	HGC Management Inc.
NORTH BAY, CITY OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
IORTH DUNDAS, TOWNSHIP OF	Direct Haul		NORTH DUNDAS, TOWNSHIP OF	NORTH DUNDAS, TOWNSHIP OF
NORTH FRONTENAC, TOWNSHIP OF	Direct Haul		Manco	Manco
NORTH GLENGARRY, TOWNSHIP OF	Direct Haul		NORTH GLENGARRY, TOWNSHIP OF	NORTH GLENGARRY, TOWNSHIP OF
NORTH GRENVILLE, MUNICIPALITY OF	Direct		Metro Waste Recycling	Metro Waste Recycling
NORTH HURON, TOWNSHIP OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
NORTH STORMONT, TOWNSHIP OF	Direct Haul		NORTH GLENGARRY, TOWNSHIP OF	NORTH GLENGARRY, TOWNSHIP OF
NORTHEASTERN MANITOULIN & ISLANDS, TOWN OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
ORTHERN BRUCE PENINSULA, MUNICIPALITY OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
NORTHUMBERLAND, COUNTY OF	Direct Haul		NORTHUMBERLAND, COUNTY OF	NORTHUMBERLAND, COUNTY OF
OCONNOR, TOWNSHIP OF	Direct Haul		Recool Inc.	Recool Inc.
DLIVER PAIPOONGE, MUNICIPALITY OF	Direct Haul		Recool Inc.	Recool Inc.
DRANGEVILLE, TOWN OF	Transfer	Dufferin Transfer & Recycling Facility - Sandhill Disposal	GUELPH, CITY OF	GUELPH, CITY OF
DRILLIA, CITY OF	Direct Haul		Mid Ontario Disposal	Mid Ontario Disposal
DRILLIA, CITY OF	Transfer	Mid Ontario Disposal	Durham Shred & Recycle	Durham Shred & Recycle
TTAWA VALLEY WASTE RECOVERY CENTRE	Direct Haul		OTTAWA VALLEY WASTE RECOVERY CENTRE	OTTAWA VALLEY WASTE RECOVERY CENTRE
TTAWA, CITY OF	Direct Haul		Metro Waste Recycling	Metro Waste Recycling
OWEN SOUND, CITY OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
OXFORD, RESTRUCTURED COUNTY OF	Transfer	Woodstock	Canada Fibres	Canada Fibres
EXFORD, RESTRUCTURED COUNTY OF	Direct Haul		HGC Management Inc.	HGC Management Inc.
APINEAU-CAMERON, TOWNSHIP OF	Direct Haul		R & D Recycling	R & D Recycling
ARRY SOUND, TOWN OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
EEL, REGIONAL MUNICIPALITY OF	Direct Haul		PEEL, REGIONAL MUNICIPALITY OF	Waste Management of Canada
ERRY, TOWNSHIP OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
ERTH, TOWN OF	Unknown		Tomlinson Environmental Services	Tomlinson Environmental Services
PETERBOROUGH, CITY OF	Direct Haul		PETERBOROUGH, CITY OF	HGC Management Inc.
ETERBOROUGH, COUNTY OF	Direct Haul		PETERBOROUGH, CITY OF	HGC Management Inc.
PETROLIA, TOWN OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
LYMPTON-WYOMING, TOWN OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
OWASSAN, MUNICIPALITY OF	Direct Haul		R & D Recycling	R & D Recycling
RESCOTT,TOWN OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
RESCOTT,TOWN OF	Direct Haul	Waste Management of Canada	Waste Management of Canada	Waste Management of Canada
RINCE, TOWNSHIP OF	Direct Haul		Green Circle Enviromental	Green Circle Enviromental
QUINTE WASTE SOLUTIONS	Direct Haul		QUINTE WASTE SOLUTIONS	Waste Management of Canada
AINY RIVER FIRST NATIONS	Direct Haul		Greg's Recycling	Greg's Recycling
AINY RIVER, TOWN OF	Transfer/Unknown Transfer fac	cili Asselin Transportation	Cascades Winnipeg	Cascades Winnipeg
ENFREW, TOWN OF	Direct Haul		Beaumen's Waste Management	Renfrew County Recycle Centre
IDEAU LAKES, TOWNSHIP OF	Transfer			
RUSSELL, TOWNSHIP OF	Direct Haul		NORTH GLENGARRY, TOWNSHIP OF	NORTH GLENGARRY, TOWNSHIP OF
ABLES-SPANISH RIVERS, TOWNSHIP OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
AGAMOK ANISHNAWBEK FIRST NATION	Unknown			
SARNIA, CITY OF	Direct Haul		Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.
SAULT NORTH WASTE MANAGEMENT COUNCIL	Direct Haul		Green Circle Enviromental	Green Circle Enviromental





Municipal Program	Material Flow	Transfer Station Name/ Owner / Operator	Processing Facility OWNER	Processing Facility OPERATOR
ULT STE. MARIE, CITY OF	Direct Haul		Green Circle Enviromental	Green Circle Enviromental
GUIN, TOWNSHIP OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
RPENT RIVER FIRST NATIONS	Unknown			
IELBURNE, TOWN OF	Transfer	Dufferin Transfer & Recycling Facility - Sandhill Disposal	GUELPH, CITY OF	GUELPH, CITY OF
IUNIAH, MUNICIPALITY OF	Direct Haul		Recool Inc.	Recool Inc.
MCOE, COUNTY OF	Direct Haul		SIMCOE, COUNTY OF	SIMCOE, COUNTY OF
MCOE, COUNTY OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
OUX LOOKOUT, TOWN OF	Transfer	Drayton Disposal	Metro Recycling	Metro Recycling
OUX NARROWS NESTOR FALLS, TOWNSHIP OF	Transfer	Asselin Transportation	Cascades Winnipeg	Cascades Winnipeg
MITHS FALLS, TOWN OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
DUTH DUNDAS, TOWNSHIP OF	Transfer	BFI Canada	Tomlinson Environmental Services	Tomlinson Environmental Services
OUTH FRONTENAC, TOWNSHIP OF	Direct Haul	Bi i Canada	KINGSTON, CITY OF	BFI Canada
OUTH GLENGARRY, TOWNSHIP OF	Direct Haul		CORNWALL, CITY OF	HGC Management
	Direct Haul		CORNWALL, CITY OF	-
DUTH STORMONT, TOWNSHIP OF				HGC Management
OUTHGATE, TOWNSHIP OF	Direct Haul		GUELPH, CITY OF	GUELPH, CITY OF
DUTHWEST MIDDLESEX, MUNICIPALITY OF	Direct Haul		BLUEWATER RECYCLING ASSOCIATION	BLUEWATER RECYCLING ASSOCIATION
DUTHWOLD, TOWNSHIP OF	Direct Haul		BFI Canada Inc.	BFI Canada Inc.
PANISH, TOWN OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
CHARLES, MUNICIPALITY OF	Direct Haul		GREATER SUDBURY, CITY OF	Canada Fibres
. JOSEPH, TOWNSHIP OF	Direct Haul		GREATER SUDBURY, CITY OF	Canada Fibres
CLAIR, TOWNSHIP OF	Direct Haul		Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.
THOMAS, CITY OF	Direct Haul		BFI Canada Inc.	BFI Canada Inc.
ONE MILLS, TOWNSHIP OF	Direct Haul		Manco	Manco
RATFORD, CITY OF	Direct Haul		Brian Leyser Recycling Inc.	Brian Leyser Recycling Inc.
RONG, TOWNSHIP OF	Transfer/Unknow facility	Landfill - STRONG, TOWNSHIP OF		
JNDRIDGE, VILLAGE OF	Direct Haul		ARMOUR, TOWNSHIP OF	ARMOUR, TOWNSHIP OF
ARBUTT & TARBUTT ADDITIONAL, TOWNSHIP OF	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
AY VALLEY, TOWNSHIP OF	Direct Haul		Tomlinson Environmental Services	Tomlinson Environmental Services
HAMES CENTRE, MUNICIPALITY OF	Direct Haul		Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.
HE ARCHIPELAGO, TOWNSHIP OF	Unknown		Waste Services INC/ BFI	Waste Services INC/ BFI
IE BLUE MOUNTAINS, TOWN OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
HE NATION MUNICIPALITY	Transfer	Moose Creek Landfill - Matrec	Matrec	Matrec
HUNDER BAY, CITY OF	Direct Haul		Recool Inc.	Recool Inc.
MMINS, CITY OF	Transfer	Deloro Landfill Site - TIMMINS, CITY OF	GREATER SUDBURY, CITY OF	Canada Fibres
DRONTO, CITY OF	Transfer	TORONTO, CITY OF - Scarborough	Metro Municipal Recycling Services	Metro Municipal Recycling Services
ORONTO, CITY OF	Transfer	TORONTO, CITY OF - Bermondsey	Metro Municipal Recycling Services	Metro Municipal Recycling Services
DRONTO, CITY OF	Transfer	TORONTO, CITY OF - Disco	Metro Municipal Recycling Services	Metro Municipal Recycling Services
DRONTO, CITY OF	Transfer	TORONTO, CITY OF - Vic Park	Metro Municipal Recycling Services	Metro Municipal Recycling Services
DRONTO, CITY OF	Transfer	TORONTO, CITY OF - Dufferin	Metro Municipal Recycling Services	Metro Municipal Recycling Services
DRONTO, CITY OF	Transfer	TORONTO, CITY OF - Ingram	Metro Municipal Recycling Services	Metro Municipal Recycling Services
PRONTO, CITY OF	Transfer	TORONTO, CITY OF - Scarborough	TORONTO, CITY OF	Canada Fibres
DRONTO, CITY OF	Transfer	TORONTO, CITY OF - Scarborough TORONTO, CITY OF - Bermondsey	TORONTO, CITY OF	Canada Fibres
,				Canada Fibres
DRONTO, CITY OF	Transfer	TORONTO, CITY OF - Disco	TORONTO, CITY OF	
DRONTO, CITY OF	Transfer	TORONTO, CITY OF - Vic Park	TORONTO, CITY OF	Canada Fibres Canada Fibres
				i anada Einrec
DRONTO, CITY OF DRONTO, CITY OF	Transfer Transfer	TORONTO, CITY OF - Dufferin TORONTO, CITY OF - Ingram	TORONTO, CITY OF TORONTO, CITY OF	Canada Fibres





Municipal Program	Material Flow	Transfer Station Name/ Owner / Operator	Processing Facility OWNER	Processing Facility OPERATOR
UDOR & CASHEL, TOWNSHIP OF	Direct Haul		QUINTE WASTE SOLUTIONS	Waste Management of Canada
VAHNAPITAE FIRST NATION	Unknown		GREATER SUDBURY, CITY OF	Canada Fibres
VALPOLE ISLAND FIRST NATION	Unknown			
/ATERLOO, REGIONAL MUNICIPALITY OF	Direct Haul		WATERLOO, REGIONAL MUNICIPALITY OF	HGC Management Inc.
ATERLOO, REGIONAL MUNICIPALITY OF	Transfer	Cambridge Landfill - WATERLOO, REGIONAL MUNICIPALITY OF	WATERLOO, REGIONAL MUNICIPALITY OF	HGC Management Inc.
/ATERLOO, REGIONAL MUNICIPALITY OF	Transfer	WATERLOO, REGIONAL MUNICIPALITY OF - HGC Management INC.	NIAGARA, REGIONAL MUNICIPALITY OF	Niagara Recycling (MRF Processor)
/ELLINGTON, COUNTY OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
/EST ELGIN, MUNICIPALITY OF	Unknown			
EST GREY, MUNICIPALITY OF	Direct Haul		Waste Management of Canada	Waste Management of Canada
EST NIPISSING, MUNICIPALITY OF	Direct Haul		West Nipissing Environmental S	WEST NIPISSING, MUNICIPALITY OF
HITESTONE, MUNICIPALITY OF	Direct Haul		Waste Services INC/ BFI	Waste Services INC/ BFI
HITEWATER REGION, TOWNSHIP OF	Direct Haul		Beaumen's Waste Management	Renfrew County Recycle Centre
IKWEMIKONG UNCEDED INDIAN RESERVE	Direct Haul		MWRC	Municipal Waste Services & Recycling Consultants
OLLASTON, TOWNSHIP OF	Direct Haul		Miller Waste Systems - WMC	Miller Waste Systems - WMC
ORK, REGIONAL MUNICIPALITY OF	Direct Haul		YORK, REGIONAL MUNICIPALITY OF	Miller Waste Systems - WMC
ORK, REGIONAL MUNICIPALITY OF	Transfer	YORK - Miller - Earl Turcott Waste Management Centre	YORK, REGIONAL MUNICIPALITY OF	Miller Waste Systems - WMC
ORK, REGIONAL MUNICIPALITY OF	Transfer	YORK - Dongara	YORK, REGIONAL MUNICIPALITY OF	Miller Waste Systems - WMC





Address and CofA Numbers for Ontario MRFs Handling Blue Box Material in 2011

TABLE 4: Private MRFs Handling Blue Box Materials

Facility OWNER	Facility OPERATOR	Address	City	Province	Postal	Туре	CofA Number
Recool Inc.	Recool Inc.	RR#3 Highway 61 South	Thunder Bay	ON	P7C 4V2	Private	0729-6QXPC8
Manco	Manco	109 Enviropark Lane	Napanee	ON	K7R 4C6	Private	2234-7QUJM6 / 7204-6U7JXF
Metro Municipal Recycling Services	Metro Municipal Recycling Services	45 Thornmount Dr	Toronto	ON	M1B 5P5	Private	4804-5PGPXU / 5162-62UJEC
Brian Leyser Recycling Inc.	Brian Leyser Recycling Inc.	26 Hahn Court	Stratford	ON	N5A 6S4	Private	6746-8NNPFD
HGC Management Inc.	HGC Management Inc.	50 Shaver Road	Brantford	ON	N3T 5M1	Private	7504-5MBKY9
R & D Recycling	R & D Recycling	Highway 17 W	North Bay	ON	P1B 8G5	Private	7651-4KNQ4K
Green Circle Enviromental	Green Circle Enviromental	86 Sackville Road	Sault Ste. Marie	ON	P6B 4T6	Private	9058-5JAK37
Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.	15 Buchanan Court	London	ON	N5Z 4P9	Private	A040147
Waste Management of Canada	Waste Management of Canada	200 Sligo Rd. W	Mount Forest	ON	NOG 2L2	Private	A170404
Beaumen's Waste Management	Renfrew County Recycle Centre	610 Lisgar St	Renfrew	ON	K7V 3N8	Private	A410403
Miller Waste Systems - WMC	Miller Waste Systems - WMC	112 Patton Street	North Bay	ON	P1B 8G4	Private	A530114
Miller Waste Systems - WMC	Miller Waste Systems - WMC	2125 20th Avenue East	Owen Sound	ON	N0H 1V0	Private	A620065
Waste Services INC/ BFI	Waste Services INC/ BFI	580 Esslestone Drive	Bracebridge	ON	P1L 1V7	Private	A620268
Emterra / Halton Recycling Ltd.	Emterra / Halton Recycling Ltd.	1122 Pioneer Rd	Burlington	ON	L7M 1K4	Private	A680142
Metro Waste Recycling	Metro Waste Recycling	2811 Shefflield	Ottawa	ON	K1B 3V8	Private	A710151 / 3460-4UTNR8
BFI Canada Inc.	BFI Canada Inc.	4695 Wellington Road South	London	ON	N6E 0A6	Private	Unable to find online
Canada Fibres	Canada Fibres	322 Horner Ave	Etobicoke	ON	M8W 1Z3	Private	Unable to find online
Greg's Recycling	Greg's Recycling	568 Norris	Devlin	ON	P0W 1C0	Private	Unable to find online
HGC Management Inc.	HGC Management Inc.	555 Station Street, RR #6	Belleville	ON	K8N 4Z6	Private	Unable to find online
MWRC	Municipal Waste Services & Recycling Consultants	9 Industrial Park E	Blind River	ON	POR 1B0	Private	Unable to find online
South Buxton Recycling Ltd	Waste Services INC/ BFI	6584 Middle Line Rd	Merlin	ON	N0P 1W0	Private	Unable to find online
Teck Northern Roads	Teck Northern Roads	37 Duncan Ave N	Kirkland Lake	ON	P2N 1X7	Private	Unable to find online
Tomlinson Environmental Services	Tomlinson Environmental Services	2173 Richardson Side Rd	Carp	ON	K0A 1L0	Private	Unable to find online
Waste Management of Canada	Waste Management of Canada	8011 Hwy 15	Beckwith	ON	K7C 3P2	Private	Unable to find online
Waste Management of Canada	Waste Management of Canada	1380 California Road	Brockville	ON	K6V 6K8	Private	Unable to find online
Waste Management of Canada	Waste Management of Canada	4485 Progress Drive	Petrolia	ON	NON 1R0	Private	Unable to find online

TABLE 5: Public MRFs Handling Blue Box Materials

F	Filia-ODERATOR	Address	City.	Daniel Control	D4-I		Coff Novel
Facility OWNER	Facility OPERATOR	Address	City	Province	Postal	Туре	CofA Number
LONDON, CITY OF	Miller Waste Systems - WMC	3438 Manning Drive	London	ON	N6L 1K4	Public	0968-8G4GQA
YORK, REGIONAL MUNICIPALITY OF	Miller Waste Systems - WMC	100 Garfield Wright Blvd	East Gwillimbury	ON	L0G 1V0	Public	1839-5PXJLW
West Nipissing Environmental S	WEST NIPISSING, MUNICIPALITY OF	225 Holditch Street	Sturgeon Falls	ON	P2B 2C5	Public	3454-84YKES
NIAGARA, REGIONAL MUNICIPALITY OF	Niagara Recycling (MRF Processor)	4935 Kent Avenue	Niagara Falls	ON	L2H 1J5	Public	3576-5DTNNJ
PEEL, REGIONAL MUNICIPALITY OF	Waste Management of Canada	795 Torbram Road	Brampton	ON	L6S 5Z7	Public	6021-6DBKZ7
ESSEX-WINDSOR SOLID WASTE AUTHORITY	ESSEX-WINDSOR SOLID WASTE AUTHORITY	3560 North Service Road	Windsor	ON	N8W 5R7	Public	A010137
HAMILTON, CITY OF	Canada Fibers	1579 Burlington St E	Hamilton	ON	L8H 3L2	Public	A130213
WATERLOO, REGIONAL MUNICIPALITY OF	HGC Management Inc.	925 Erb Street	Waterloo	ON	N2G 3W7	Public	A140301
GUELPH, CITY OF	GUELPH, CITY OF	110 Dunlop Drive	Guelph	ON	N1L 1E4	Public	A170128
SIMCOE, COUNTY OF	SIMCOE, COUNTY OF	1700 Golf Link Road	Midland	ON	L9M 1R4	Public	A253102
BRUCE AREA SOLID WASTE RECYCLING	BRUCE AREA SOLID WASTE RECYCLING	126 Concession 14	Southampton	ON	NOH 2LO	Public	A273103
TORONTO, CITY OF	Canada Fibres	35 Vanley Cresent	Toronto	ON	M3J 2B7	Public	A280709
NORTHUMBERLAND, COUNTY OF	NORTHUMBERLAND, COUNTY OF	280 Edwardson Road	Grafton	ON	KOK 2GO	Public	A311713
QUINTE WASTE SOLUTIONS	Waste Management of Canada	270 West Street	Trenton	ON	K8V 2N3	Public	A360209
KINGSTON, CITY OF	BFI Canada	196 Lappan's Lane	Kingston	ON	K7K 6Z4	Public	A380107
DURHAM, REGIONAL MUNICIPALITY OF	Metro Municipal Recycling Services	4590 Garrard Rd	Whitby	ON	L1H 7K4	Public	A390509
OTTAWA VALLEY WASTE RECOVERY CENTRE	OTTAWA VALLEY WASTE RECOVERY CENTRE	900 Woito Station Road	Pembroke	ON	K8A 6W5	Public	A411601
NORTH GLENGARRY, TOWNSHIP OF	NORTH GLENGARRY, TOWNSHIP OF	265 Industrial Boulevard	Alexandria	ON	K0C 1A0	Public	A480203
NORTH DUNDAS, TOWNSHIP OF	NORTH DUNDAS, TOWNSHIP OF	12620 Boyne Road	Winchester	ON	K0C 2K0	Public	A482101
ARMOUR, TOWNSHIP OF	ARMOUR, TOWNSHIP OF	141 Chetwynd Rd	Armour	ON	P0A 1C0	Public	A521003
GREATER SUDBURY, CITY OF	Canada Fibres	1825 Frobisher Street	Sudbury	ON	P3A 6C8	Public	A540231
NORFOLK, COUNTY OF	HGC Management Inc.	28 Grigg Drive	Norfolk	ON	LOK 2AO	Public	A650033
PETERBOROUGH, CITY OF	HGC Management Inc.	390 Pido Road	Peterborough	ON	K9J 2J4	Public	A710080
COCHRANE TEMISKAMING WASTE MANAGEMENT BOARD	COCHRANE TEMISKAMING WASTE MANAGEMENT BOARD	181 Brunetville Road	Kapuskasing	ON	P5N 2H2	Public	A770076
BLUEWATER RECYCLING ASSOCIATION	BLUEWATER RECYCLING ASSOCIATION	415 Canada Ave	Huron Park	ON	NOM 1Y0	Public	Unable to find online
COCHRANE TEMISKAMING WASTE MANAGEMENT BOARD	COCHRANE TEMISKAMING WASTE MANAGEMENT BOARD	7 Barr Drive	New Liskard	ON	POJ 1KO	Public	Unable to find online
CORNWALL, CITY OF	HGC Management	2590 Cornwall Centre Road	Cornwall	ON	K6H 5R6	Public	Unable to find online

TABLE 6: Out of Province MRFs Handling ON Blue Box Materials

Facility OWNER	Facility OPERATOR	Address	City	Province	Postal	Туре
Service Sani-Tri	Service Sani-Tri	3369 Saguenay	Rouyan-Noranda	QC	J9X 5A3	Private
Matrec	Matrec	5300 Rue Albert Millichamp	St-hubert	QC	J3Y 1B7	Private
Cascades Winnipeg	Cascades Winnipeg	680 Wall St	Winnipeg	MB	R3G 2T8	Private
Metro Recycling	Metro Recycling	100 Omands Creek Blvd	Winnipeg	MB	R2R 1V7	Private





Address and CofA Numbers for Ontario Transfer Stations Handling Blue Box Materials in 2011

TABLE 7: Private Transfer Stations

Transfer Station Name/Owner/Operator	Transfer Address	Transfer City	Transfer Province	Transfer Postal	Туре	CofA Number
Asselin Transportation	401 Keating Ave	Fort Francis	ON	P9A 3T7	Private	2237-6QHRZ4
BFI Canada	4800 Development Drive	Brockville	ON	K6V 5V6	Private	4018-4RHL8D
Dufferin Transfer & Recycling Facility - Sandhill Disposal	473051 County Road 11	Orangeville	ON	L9W 2Z3	Private	8661-5M2PDD
NorJohn Transfer System Ltd Walker Industries	5030 Mainway	Burlington	ON	L7L 5Z1	Private	A210114
YORK - Miller - Earl Turcott Waste Management Centre	300 Rodick Road	Markham	ON	L3R 5X8	Private	A230303
Mid Ontario Disposal	24 Kitchener Street	Orillia	ON	L3V 5H5	Private	A252604
Moose Creek Landfill - Matrec	17125 Lafleche Road	Moose Creek	ON	K0C 1W0	Private	A420018
Drayton Disposal	69 Abram Lake Road	Sioux Lookout	ON	P8T 1A5	Private	A900156
Canborough Recycling Transfer Station	499 James Road	Dunnville	ON	N1A 2W4	Private	Unable to find online
Leferink Transfer Limited	57 Armstrong Ave	Georgetown	ON	LOP 1KO	Private	Unable to find online
Roslin - David Moore & Sons					Private	Unable to find online
YORK - Dongara	7251 27 Hwy	Woodbridge	ON	L4L 1A5	Private	Unable to find online

TABLE 8: Public Transfer Stations

Transfer Station Name/Owner/Operator	Transfer Address	Transfer City	Transfer Province	Transfer Postal	Туре	CofA Number
Kenora Area Solid Waste Transfer Facility	401 Mellick Ave	Kenora	ON	P9N 0E1	Public	3840-4LHJFE
WATERLOO, REGIONAL MUNICIPALITY OF	201 Savage Drive	Cambridge	ON	N1T 1S5	Public	6383-57TPZW
TORONTO, CITY OF - Dufferin	400 Commissioners St.	Toronto	ON	M4M 1A9	Public	A210343
TORONTO, CITY OF - Disco	120 Disco Rd.	Toronto	ON	M9W 1M4	Public	A280303
TORONTO, CITY OF - Scarborough	1 Transfer Place	Toronto	ON	M1S 4A4	Public	A280408
TORONTO, CITY OF - Bermondsey	188 Bermondsey Rd.	Toronto	ON	M4A 1Y1	Public	A280701
TORONTO, CITY OF - Ingram	50 Ingram Dr.	Toronto	ON	M6M 2L6	Public	A280703
TORONTO, CITY OF - Vic Park	3350 Victoria Park Ave.	Toronto	ON	M2H 3K5	Public	A280707
Landfill - STRONG, TOWNSHIP OF	483 Forest Lake Rd	Strong	ON	P0A 1Z0	Public	A522702
Deloro Landfill Site - TIMMINS, CITY OF	2180 Pine Street South	Timmins	ON	P4N 7C2	Public	A580703
Dryden Landfill - DRYDEN, CITY OF	398 HWY-502	Kenora District	ON	POV 2J0	Public	Unable to find online
Woodstock	201 Savage Drive	Woodstock	ON	N1T 1S5	Public	Unable to find online





FIGURE 1: Current System Infrastructure and Material Flow for the Eastern Region

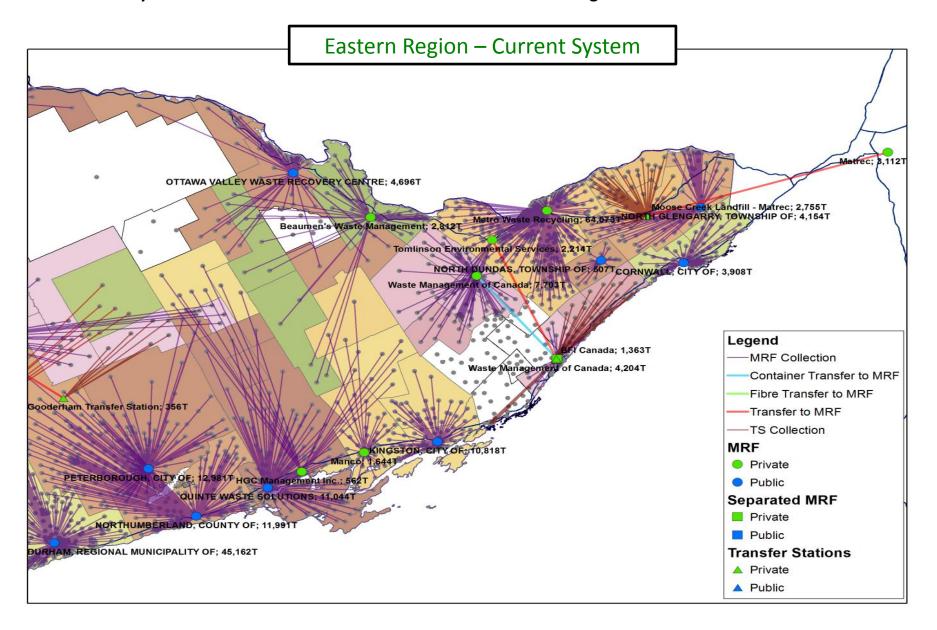






FIGURE 2: Current System Infrastructure and Material Flow for the Southwestern Region

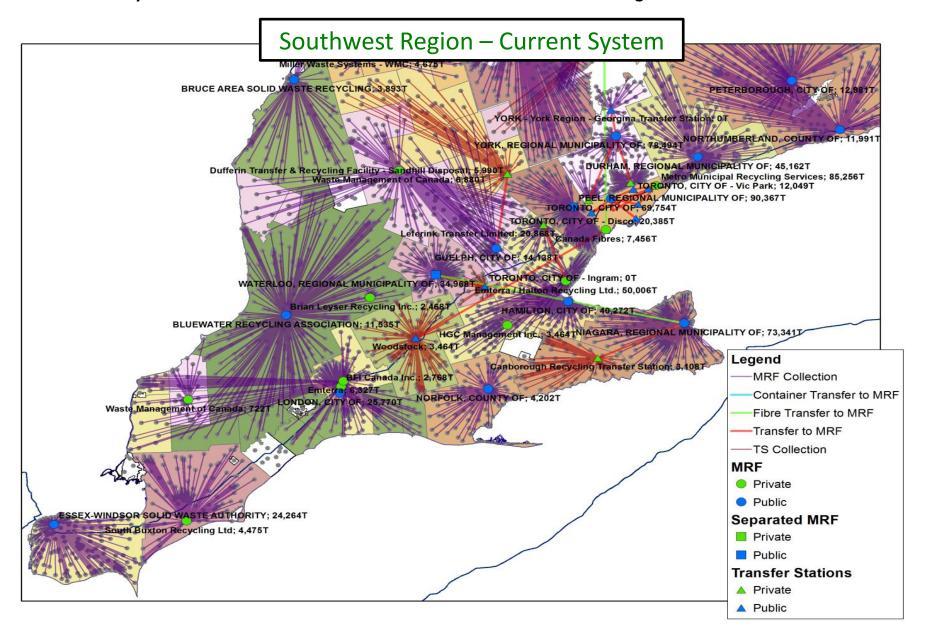






FIGURE 3: Current System Infrastructure and Material Flow for the Central & GTA Region

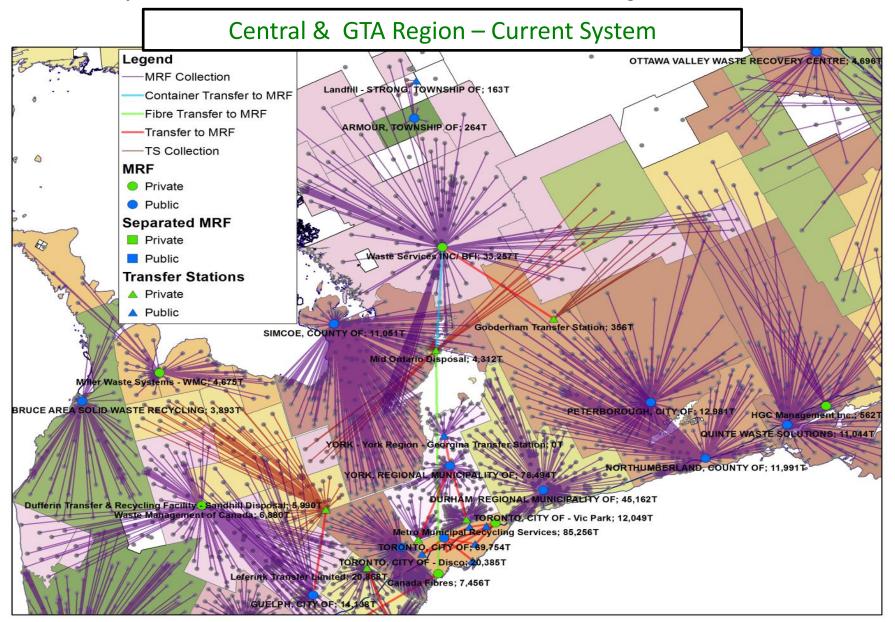






FIGURE 4: Current System Infrastructure and Material Flow for the GTA Region

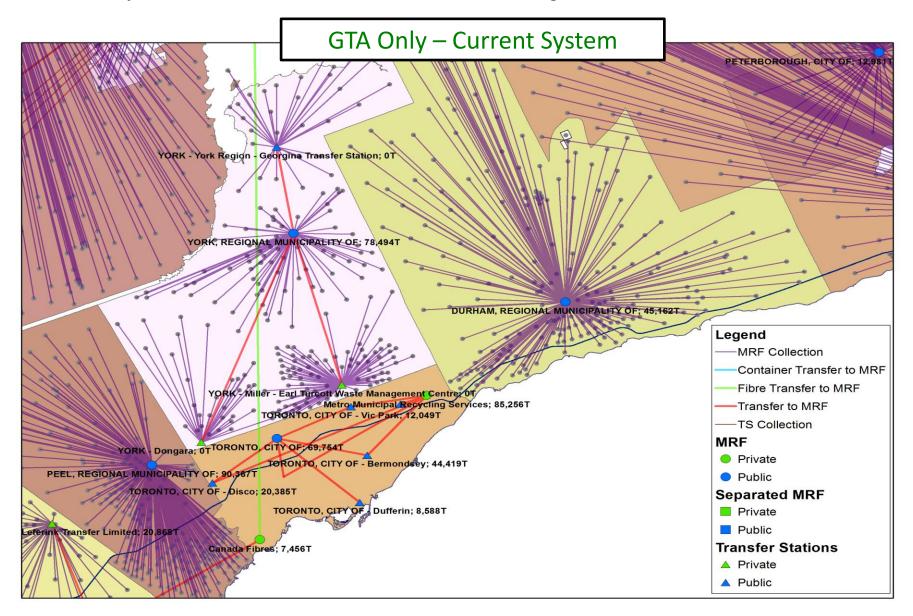
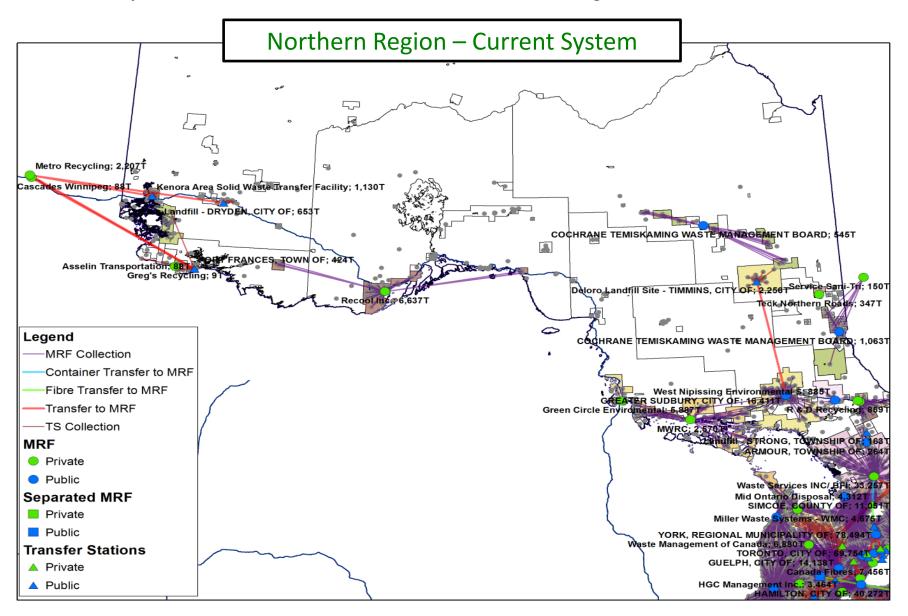






FIGURE 5: Current System Infrastructure and Material Flow for the Northern Region







TALBE 9: Costing Assumptions

Labour				
Wages	Hourly	Annual	Fringes	2012 Total
Sorter	\$15.00	\$31,200	\$9,360	\$40,560
Semi Tractor Driver	\$23.00	\$47,840	\$14,352	\$62,192
Equipment Operator	\$17.50	\$36,400	\$10,920	\$47,320
Maintenance	\$17.50	\$36,400	\$10,920	\$47,320
Scale & Clerical	\$15.00	\$31,200	\$9,360	\$40,560
Management	\$27.00	\$56,160	\$16,848	\$73,008
Benefits/Fringes	30%			
1st Shift capacity	85%			
2nd Shift capacity	85%			
Capacity Utilization	95%			

Building & Operating Costs		
Building & Site Maintenance Costs	\$ 13.45	per m ²
Building utilities	\$ 6.46	per m ²
Processing Costs		
Baling Wire Costs	\$ 1.50	per tonne
Processing Fuel Costs	\$ 0.50	per tonne
Maintenance Costs	\$ 4.41	per tonne
Process Utilities Costs	\$ 2.20	per tonne
Transfer Loading Fuel Costs	\$ 0.20	per tonne
Transfer Equipment Maint Cost	\$ 2.25	per tonne
Safety Office Phone Supplies	\$ 2.48	per tonne
Residue Disposal Cost	\$ 80	per tonne of residue
Residue Rate	7%	
Manangement Profit Allowance	20%	
Interest Rate	4%	

Forklift \$ 35,000 Skidsteer with Grapple \$ 50,000 Small Loader \$ 85,000 Large Loader \$ 180,000 Yard Mule \$ 110,000	Rolling Stock		
Small Loader \$ 85,000 Large Loader \$ 180,000	Forklift	\$ 35,000	
Large Loader \$ 180,000	Skidsteer with Grapple	\$ 50,000	
. ,	Small Loader	\$ 85,000	
Yard Mule \$ 110,000	Large Loader	\$ 180,000	
	Yard Mule	\$ 110,000	

Transfer		
Haul Cost Transfer Trailer	\$ 100	per hour
Haul Cost Rolloff	\$ 90	per hour
Load Limit Transfer Truck	24.1	tonnes
Load Limit Rolloff Truck	18.3	tonnes



TABLE 10: Costing Assumptions by Type of MRF

CATEGORIES		DS Small	DS	Small MRF	DS	S Medium	D	S Medium	cc	Small MRF	SS	Small MRF	S:	6 Intermed	SS	S Intermed	SS	Medium	SS N	ledium MRF	c	Largo MPE	S:	S Large MRF
CATEGORIES		MRF		2-Shift		MRF	N	/IRF 2-Shift	33	Small WIKE		2-Shift		MRF	N	MRF 2-Shift		MRF		2-Shift	53	Large MRF		2-Shift
Rated tonnes/hour		6.40		6.40		13.61		13.61		13.61		13.61		19.96		19.96		31.75		31.75		63.50		63.50
Fibre Tonnage		7,135		14,269		15,180		30,360		15,180		30,360		22,264		44,528		35,420		70,840.06		70,840.06		141,680.12
Container Tonnage		2,623		5,246		5,581		11,162		5,581		11,162		8,185		16,371		13,022		26,044		26,044		52,088
Residue		734		1,469		1,563		3,125		1,563		3,125		2,292		4,584		3,646		7,292		7,292		14,585
Total Tonnage		10,492		20,984		22,324		44,647		22,324		44,647		32,741		65,482		52,088		104,177		104,177		208,353
Capital																								
Equipment																								
Scale	\$	100,000	\$	100,000	\$	100,000	\$	100,000	Ś	100,000	Ś	100,000	\$	100,000	\$	100,000	\$	100,000	\$	100,000	\$	100,000	\$	100,000
Main Baler(s)	\$	300,000		300,000		450,000	\$	•	\$	450,000	•	450,000		650,000		650,000	-	700,000		•	\$	1,500,000		1,500,000
Sorting, Bins, Bunkers, Conveyors	<u> </u>	2 000 000	,	2 000 000	ć	2 700 000	¢	2 700 000	۸.	2 500 000	۲.	2 500 000	ب	6 000 000	<u> </u>	6 000 000	¢	0.500.000	¢	0.500.000	,	16 000 000	_	16 000 000
• •		2,000,000		2,000,000		2,700,000				3,500,000	-			6,000,000		6,000,000		8,500,000		8,500,000	•	16,000,000		16,000,000
Equipment Total Rolling Stock	\$	2,400,000	\$	2,400,000	\$	3,250,000	\$	3,250,000	Ş	4,050,000	Ş	4,050,000	\$	6,750,000	\$	6,750,000	\$	9,300,000	Ş	9,300,000	\$	17,600,000	Ş	17,600,000
Loaders & Forklift																								
& Yard Tractor	\$	170,000	Ś	170,000	Ś	265,000	\$	265,000	Ś	170,000	Ś	170,000	Ś	265,000	Ś	265,000	Ś	300,000	Ś	300,000	Ś	565,000	Ś	565,000
Rolling Stock	\$	170,000		170,000	•	265,000		265,000	•	170,000		170,000	•	265,000		265,000		300,000	•	300,000	•	565,000		565,000
Building Capital		.,	•	-,		,	•	,	•	-,	•	.,	•	,		,		,		,	•	,	•	,
Site Size (acres)		4.00		6.00		6.00		6.00		9.00		9.00		9.00		9.00		9.00		9.00		15.00		15.00
Building Size (Sq. meter)		2,200		2,200		4,000		4,000		4,000		4,000		5,000		5,000		6,200		6,200		10,500		10,500
Cost per sq meter	\$	1,292	\$	1,292	\$	1,292	\$	1,292	\$	1,292	\$	1,292	\$	1,292	\$	1,292	\$	1,292	ς .	1,292	ς	1,292	\$	1,292
Building Cost	\$	2,842,400		•	\$		\$	•		5,168,000		5,168,000		6,460,000	\$	•	\$	8,010,400		,	\$	13,566,000		13,566,000
Site and Land Capital	Y	2,042,400	Y	2,042,400	Y	3,100,000	Ţ	3,100,000	Ų	3,100,000	Ţ	3,100,000	Ţ	0,400,000	7	0,400,000	Y	0,010,400	Y	0,010,400	Y	13,300,000	Y	13,300,000
Cost	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	Ś	_	\$	-			Ś	_	\$	_	Ś	-	Ś	_
Total Capital	\$	5,412,400	\$	5,412,400	\$	8,683,000	\$	8,683,000	\$	9,388,000	\$	9,388,000		13,475,000	\$	13,475,000	\$	17,610,400	\$	17,610,400	\$	31,731,000	\$	31,731,000
	,																							
Labour Assumptions	(FIE)																						
Number of Employees		17		33		29.5		58		24.5		48		28		55		33		65		59		118
Sorter																								
(tonnes/hr/sorter)		0.50		0.50		0.60		0.60		0.75		0.75		1.00		1.00		1.35		1.35		1.35		1.35
Sorter		13.00		26.00		23.00		46.00		18.00		36.00		20.00		40.00		24.00		48.00		47.00		94.00
Driver		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00
Equipment Operator		1.00		2.00		3.00		6.00		3.00		6.00		4.00		8.00		5.00		10.00		7.00		14.00
Maintenance		1.00		2.00		1.00		2.00		1.00		2.00		1.00		2.00		1.00		2.00		2.00		4.00
Scale/Clerical		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		2.00
Management,																								



TABLE 11: Costing Assumptions by Type of Transfer Station

CATEGORIES	Sn	nall Transfer	Me	edium Transfer	La	arge Transfer		rge Transfer Alternative	
Fibre Tonnage		1,700		6,800		35,420		35,420.03	
Container Tonnage		625		2,500		13,022		13,022	
Other Tonnage		-		-		-		-	
Residue		175		700		3,646		3,646	
Total Tonnage (tonnes)		2,500		10,000		52,088		52,088	
Capital									
Equipment									
Compactors	\$	25,000		-/	\$	420,000	\$	420,000	
Equipment Total	\$	25,000	\$	210,000	\$	420,000	\$	420,000	
Rolling Stock									
Loaders & Forklift & Yard Tractor	\$	50,000	\$	290,000	\$	470,000	\$	290,000	
Rolling Stock	\$	50,000	\$	290,000	\$	470,000	\$	290,000	
Building Capital									
Site Size (acres)		2.00		2.00		2.00		2.00	
Assumed Size (sq. meter)		200		500		1,200		900	
Cost per sq. meter	\$	1,000	\$	1,000	\$	1,000	\$	1,200	
Building Cost	\$	200,000	\$	500,000	\$	1,200,000	\$	1,080,000	
Site and Land Capital Cost	\$	-	\$	-	\$	-	\$	-	
Total Capital	\$	200,000	\$	500,000	\$	1,200,000	\$	1,080,000	
Labour Assumptions (FTE)									
Number of Employees		0.40		1.35		4.5		4.5	
Sorter Productivity (tonnes/hr/sorter)									
Sorter		0.00		0.00		0.00		0.00	
Driver		0.00		0.00		1.00		1.00	
Equipment Operator		0.20		0.75		2.00	2.00		
Maintenance		0.00		0.10		0.50	0.50		
Scale/Clerical						0.50		0.50	
Management, Clerical & Scale		0.20		0.50		0.50		0.50	



Study of the Optimization of the Blue Box Material Processing System in Ontario SINGLE-STREAM PROCESS FLOW DIAGRAM

