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Appendix B

Survey of Landfill Operators



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Attachment B - Waste Export Alternatives Surveys

St. Marys Future Solid Waste Disposal Needs Environmental Assessment

**R.J. Burnside & Associates Limited
292 Speedvale Avenue West Unit 20
Guelph ON N1H 1C4 CANADA**

**December 2019
300032339.0000**

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Attachment B - Waste Export Alternatives Surveys
December 2019

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1.0 Waste Export Alternatives Surveys

Per the Terms of Reference (TOR), some data for evaluation of the export Methods was collected through a survey of municipal and private waste service providers. Private waste service providers were asked a series of questions focussed on their operations, equipment, costs, and contract terms. A separate letter was sent to municipalities that operate landfill sites to determine if they would consider providing disposal capacity to the Town of St. Marys. These surveys, discussed in more detail below, were distributed in March 2015 with responses mostly received during April 2015.

1.1 Municipal Survey

Local (Municipal) Landfills within approximately 100 km of St. Marys are generally operated for the use of the municipality or county in which they are located. The only exception at the time of our surveys that the Study Team was aware is the Green Lane Landfill. The Green Lane Landfill was privately owned until 2007 when it was purchased by the City of Toronto for their waste disposal needs, making it a municipal landfill. A figure showing the location of these landfills is included in Appendix A.

No municipalities (sites) have previously expressed an interest in receiving waste from the Town of St. Marys. However, newspaper reports from early 2015 indicated that at least two municipalities were considering accepting waste from outside their communities as a revenue generating measure. With this in mind, the Town of St. Marys sent a letter asking if the municipality was (or was not) interested, subject to negotiations, in providing disposal capacity.

The survey was sent to 14 municipalities. Ten of these municipalities provided a response, written or by telephone, indicating that they were not interested in accepting St. Marys waste. The mailing list, an example letter/survey and the response summary table is provided as Appendix A.

Despite the apparent lack of interest in accepting the Town's waste, the Study Team decided to proceed with evaluating Local (Municipal) Landfills as a potential export Method.

1.2 Private Waste Service Providers Survey

The private waste service providers (operators) survey was developed and sent to various disposal sites, transfer facility and waste hauling (trucking) companies. This

¹ <http://www.lfpress.com/2015/04/16/having-taken-a-big-revenue-hit-when-it-lost-two-major-customers-at-its-landfill-the-city-is-courting-new-clients-a-move-that-could-recoup-500000-of-the-lost-cash>, and <http://www.mitchelladvocate.com/2015/03/30/taking-others-garbage-discussed-as-revenue-option-for-west-perth>. Both accessed May 4, 2015.

Attachment B - Waste Export Alternatives Surveys
December 2019

survey was intended to collect realistic, locally focused information on a variety of subjects including typical costs, contract length, site capacities, and haulage information. Burnside had identified a number of haulage firms and transfer station owners as well as disposal sites to assist in the preparation and population of the evaluation matrix. The survey and the list of private operators invited to respond are included in Appendix B.

Information collected by this survey was reviewed by the EA Team. The responses were used in evaluating the various export Methods. Numerical responses relating to costs and fuel economies helped determine overall implementation costs and emissions rates as described below.

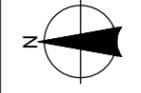


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Appendix A

Municipal Survey



- LEGEND**
- HURON COUNTY
 - MUNICIPALITY OF MIDDLESEX CENTRE
 - ELGIN COUNTY
 - OXFORD COUNTY
 - BRANT COUNTY
 - PERTH COUNTY
 - WELLINGTON COUNTY
 - REGIONAL MUNICIPALITY OF WATERLOO

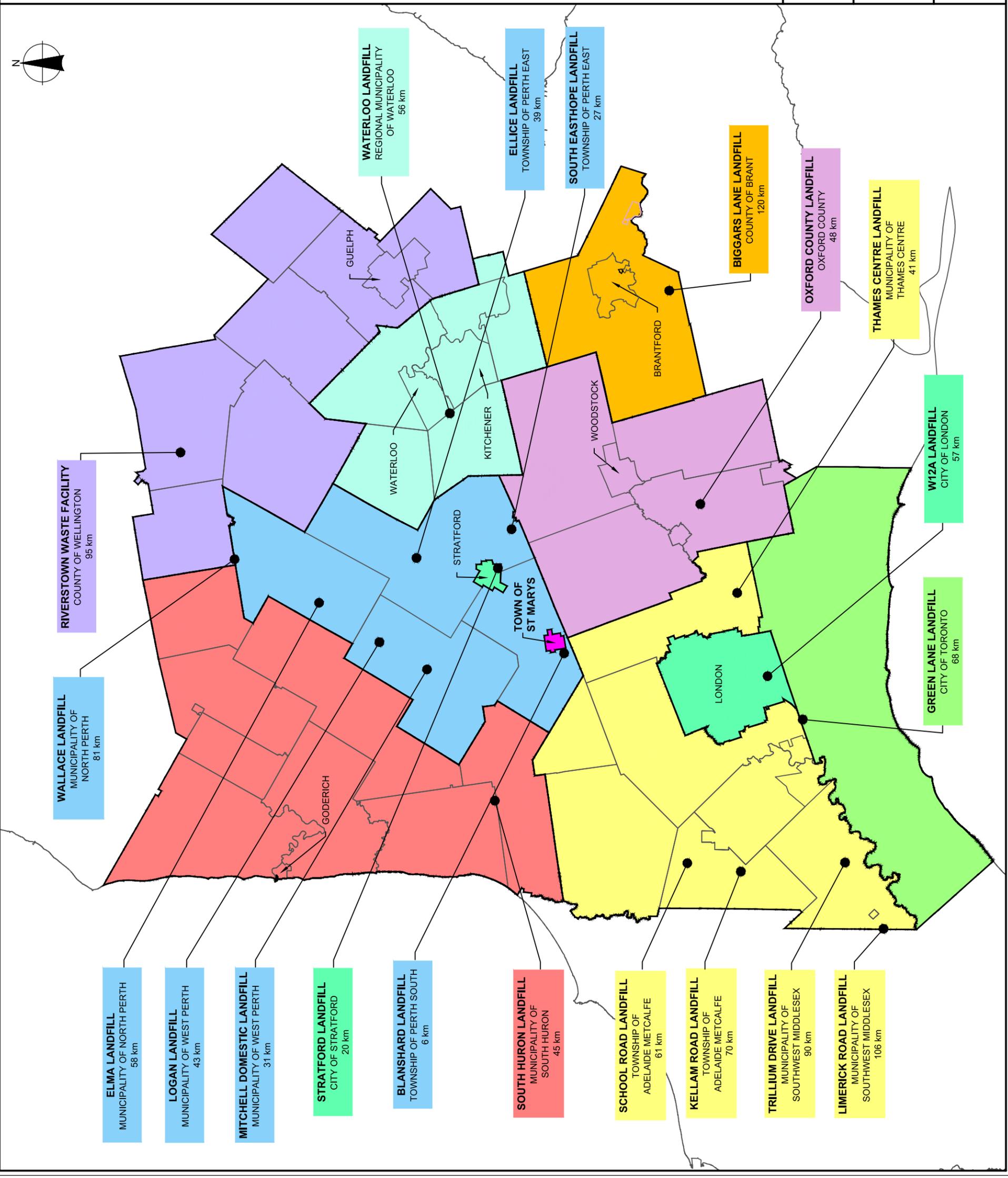
LANDFILL NAME
OWNER
DRIVING DISTANCE TO
ST. MARYS LANDFILL



Client / Report
TOWN OF ST MARYS
FUTURE SOLID WASTE DISPOSAL NEEDS
ENVIRONMENTAL ASSESSMENT

Figure Title

**MUNICIPAL EXPORT OPPORTUNITIES
AREA MAP**





March 24, 2015

Lyndon Kowch
Manager of Public Works
City of Stratford
303 King St.
Stratford ON N5A 4S5

Subject: Town of St. Marys Solid Waste Disposal Needs Environmental Assessment Export Alternatives Assessment

The Town of St. Marys is undertaking an Environmental Assessment (EA) for solid waste disposal. The EA Terms of Reference (TOR) has recently been approved by the Minister of Environment and Climate Change. The TOR's problem statement reads:

The Town of St. Marys must identify a solution that addresses the Town's post-diversion municipal solid waste disposal needs over a 40 year planning period in a technically and economically feasible manner while minimizing impacts to the environment

The TOR requires St. Marys to review the possibility of using approved waste disposal capacity owned by others, including municipalities such as your own. To this end, St. Marys would appreciate if you could complete the brief survey form attached to this letter. A written response is requested to facilitate our EA documentation.

As background, during 2014 the St. Marys Landfill accepted a total of 7,325 tonnes of waste; 1,978 tonnes from residents and 5,347 tonnes from industrial, commercial and institutional sources. It is expected that disposal requirements will grow approximately 1% annually. St. Marys is looking for disposal of this entire waste stream for a 40 year period, though shorter periods will be considered. Any disposal arrangement would be subject to further discussion, negotiation, environmental approvals, and so on. With this survey St. Marys is merely looking to see if your municipality is interested in such further efforts. It in no way commits you to accepting our waste.

Should you have any questions please feel free to contact either one of the study team representatives indicated on the form.

Respectfully,

Bruce Grant, CAO
Town of St. Marys

032336 Mun-Disposal Survey
18/03/2015 5:33 PM

St. Marys Survey of Municipal Disposal Opportunities

The information collected by this survey will be made available to the public as part of the Town of St. Marys Environmental Assessment process. Please send the completed survey via mail, fax or email to Burnside. Should you have any questions while preparing your response, please contact one of the study team representatives.

James Hollingsworth
R.J. Burnside & Associates Limited
1465 Pickering Parkway, Suite 200
Pickering ON L1V 7G7
Email: St.Marys.Waste.EA@jburnside.com
Tel: 289-545-1051 Fax: 905-420-5247

Dave Blake, C.E.T.
The Corporation of the Town of St. Marys
Email: dblake@town.stmarys.on.ca
Tel: 519-284-2340

Municipal contact for any related correspondence: (please indicate corrections or updates)

Name	Lyndon Kowch		
Title:	Manager of Public Works		
Name of Municipality:	City of Stratford		
Address 1:	303 King St.		
Address 2:			
City, Prov. & Postal Code:	Stratford ON N5A 4S5		
Phone:	(519) 271-0260, Ext 255	Fax:	(519) 273-2720
Email:	lkowch@stratfordcanada.ca		
Preference (check one):	<input type="checkbox"/> mail, <input type="checkbox"/> phone, <input type="checkbox"/> fax, <input type="checkbox"/> email		

Please complete the following statement (place check marks as appropriate):

- Subject to further discussion, negotiations, environmental approvals, etcetera, we are
 - interested not interested
 in providing solid waste disposal capacity to the Town of St. Marys.
- This has been confirmed/decided by:
 - Municipal Council, Committee of the Whole or similar decision.
 - Discussion with the Courty Warden, Mayor, Reeve or similar.
 - Discussion with the Chief Administrative Officer, Clerk, or similar.
 - Other means (please describe)

3. I am authorized to make these statements on behalf of the municipality.

Signature: _____ Date: _____
(print name) _____
nim / dd / yyyy

A response to Burnside by April 17, 2015 would be appreciated.

**Town of St. Marys Solid Waste Disposal Needs Environmental Assessment
Export Alternatives Assessment
Potential Municipal Hosts - Mail Merge Listing & Response Table**

First	Last	Title	Municipality	Address1	Address2	City	PCode	Response						
								From	Title	Date	Method	Yes/No		
Das	Soligo	Operations Superintendent	County of Wellington	74 Woolwich Street		Guelph	N1H 3T9							
Pamela	Antonio	Waste Management Coordinator	Oxford County	384060 Salford Road		Salford	N0J 1W0	Peter M. Crockett, P.Eng.	Chief Administrative Officer	21-Apr-15	Email w/ attachment	No		
Deanna	Dakin	Waste Management Coordinator	Regional Municipality of Waterloo	925 Erb Street West		Waterloo	N2J 3Z4							
Don	Giberson	Environmental Services Director	Municipality of South Huron	322 Main Street South	P.O. Box 759	Exeter	N0M 1S6	Don Giberson	Environmental Services Director	13-Apr-15	Email w/ attachment	No		
Ken	Bettles	Director of Pulic Works	Township of Perth South	3191 Road 122		St. Pauls	N0K 1V0	Ken Bettles	Director of Pulic Works	8-Apr-15	Email w/ attachment	No		
Annette	Synowiec	Manager	City of Toronto	25th F.I.E. 100 Queen St.		Toronto	M5H 2N2	Annette Synowiec	Director of Policy, Planning & Support	21-Apr-15	Telephone	No		
Mike	Kraemer	Operations Manager	Municipality of West Perth	169 St. David Street,	P.O. Box 609	Mitchell	N0K 1N0							
Lyndon	Cowch	Works	City of Stratford,	82 Erie Street		Stratford	M5A 2M4							
Mark	Hackett	Manager of Environmental Services	Municipality of North Perth	330 Wallace Ave. N		Listowel	N4W 1L3	Patricia Berfelz	Clerk	21-Apr-15	Mail	No		
Wes	Kuepfer	Public Works Manager	Township of Perth East	25 Mill St East	P.O Box 455	Milverton	N0K1M0	Theresa Campbell	Municipal Clerk	9-Apr-15	Email & Mail	No		
Matthew	D'Hondt	Solid Waste/ Wastewater Operations Manager	County of Brant	26 Park Avenue	P.O. Box 160	Burford	N0E 1A0	Matthew D'Hondt	Solid Waste/ Wastewater Operations Manager	13-Apr-15	Email (attachment) sent to St. Marys	No		
Paddy	Thomson	Director of Environmental Services	Municipality of Thames Centre	4305 Hamilton Rd.		Dorchester	N0L 1G3	Jarrold Craven	Director of Environmental Services (Acting)	7-Apr-15	Email w/ attachment	No		
Fran	Urbshott	Administrator/Clerk	Township of Adelaide Metcalfe	2340 Egremont Drive	RR #5	Strathroy	N7G 3H6	Fran Urbshott	Administrator/Clerk	21-Apr-15	Email w/ attachment	No		
Jaime	Farnicisco	Public Works Manager	Municipality of Southwest Middlesex	153 McKellar Street	Box 218	Glencoe	N0L 1M0	Jaime Francisco	Public Works Manager	8-Apr-15	Email w/ attachment	No		



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Appendix B

Private Waste Service Providers Survey



March 12, 2015

Via: Mail

«First_Name» «Last_Name»
«Title»
«Organization»
«Address_1»
«Address_2»
«City» «Province» «PC_»

**Re: Future Solid Waste Disposal Needs Environmental Assessment Study
Waste Disposal Survey
Project No.: 300032339.1000**

The Town of St. Marys has identified waste export as a potential solution to meet the Town's future solid waste disposal requirements. R.J. Burnside & Associates Limited, on behalf of the Town, has identified your company as a potential service provider for disposal.

In order to evaluate the suitability of exporting the Town's waste, Burnside is requesting information regarding the services offered by your company. It would be appreciated if you would complete the relevant sections of the attached survey and return it to Burnside. The information will be incorporated into the Environmental Assessment study for evaluation against other alternative methods of solid waste disposal. The study, including information provided by your company, will be made available for public review.

Please complete the attached survey and return it to Burnside by April 3, 2015. Should you have any questions please contact the undersigned at 289.470.1310 or andrew.evans@rjburnside.com.

Yours truly,

R.J. Burnside & Associates Limited

Andrew Evans
EIT, B. Eng biosci
AE:cv

James R. Hollingsworth, P.Eng.
Technical Manager, Solid Waste

Enclosure(s) Waste Disposal Survey

032339 Waste Disposal Surveyc.docx
12/03/2015 5:01 PM

Section A – Waste Haulage

- A1. Please provide a typical haulage rate and disposal location? (\$/tonne, assuming 2000 – 5000 tonnes/year) _____
- A2. Please provide a brief list of disposal sites you currently haul to:

- A3. What is the service area provided by your company? Does it include St. Marys?

- A4. What is your Environmental Compliance Approval (ECA), Certificate of Approval (CofA) or Environmental Activity and Sector Registry (EASR) number? _____
- A5. Please provide an estimate of your waste haulage fleet average fuel economy (preferably in Litres per Tonne Kilometer or US gallons per Ton Mile). _____
- A6. Do you offer haulage services to the U.S. (Y / N)
If yes which States (circle) New York Michigan Ohio Other _____
- A7. If yes can you provide an approximate frequency of loads rejected at border? How are these handled/avoided? _____

- A8. Frequency of load fires (#/year) _____
- A9. What is your current fleet size? Trucks: _____ Trailers: _____
- A10. What is the typical duration of a contract? _____ years
- A11. What is the maximum contract duration you are willing to negotiate? _____ years
- A12. How have the tipping fees changed over the past 5 years (list of fees or percentage increases)?

- A13. What methods are commonly used to adjust contract rates?
 CPI Fuel price surcharges Other: _____
- A14. Is there any other information you think should be considered regarding waste haulage?

Section B – Transfer Stations

B1. Is your site licensed/permitted to receive waste from St. Marys, Ontario (ECA Service Area)? (Y/N)

B2. Do you have capacity to receive 2000-5000 tonnes/year from St. Marys? (Y / N)

B3. What is your Environmental Compliance Approval (ECA) (or Certificate of Approval (CofA)) number? _____

B4. Is waste from your site permitted to be hauled to the U.S.? (Y / N) If yes which States (circle) New York Michigan Ohio Other _____

B5. If yes can you provide an approximate frequency of loads rejected at border? How are these handled/avoided? _____

B6. Please provide a brief list of disposal sites you currently haul to:

B7. What is the average throughput of your facility? _____ tonnes/day

B8. What is the maximum ECA permitted throughput? _____ tonnes/day

B9. What is the current tipping fee at your facility? (assume 2000-5000 tonnes per year) _____ \$/tonne

B10. What is the typical duration of a disposal contract? _____ years

B11. What is the maximum contract duration you are willing to negotiate? _____ years

B12. How have the tipping fees changed over the past 5 years (list of fees or percentage increases)?

B13. What methods are commonly used to adjust contract rates?

CPI Fuel price surcharges Other: _____

B14. Are you aware of any significant environmental features, rare species, Aboriginal Treaties, rights or interests or other factors that currently, or may in the future, affect your operations? (Y / N)

If yes, please explain _____

B15. Is there any other information you think should be considered regarding waste transfer stations or your site specifically? _____

Section C – Landfill Sites

C1. Is your site licensed/permitted to receive waste from St. Marys, Ontario (ECA Service Area)? (Y/N)

C2. What is your Environmental Compliance Approval (ECA) (or Certificate of Approval (CofA)) number? _____

C3. Do you have capacity to receive 2000-5000 tonnes/year from St. Marys? (Y / N)

C4. What is the current gate tipping rate? _____ \$/tonne

C5. What is the estimated remaining capacity/operating life at your site? (in terms of volume and years) _____ m³ _____ years

C6. Please provide an estimate on the contract price/ discount rates for larger contracts (2000-5000 tonnes per year)? _____ \$/tonne

C7. What is the typical duration of a disposal contract? _____ years

C8. What is the maximum contract duration you are willing to negotiate? _____ years

C9. How have the tipping rates changed over the past 5 years (list of rates or percentage increases)

C10. What methods are commonly used to adjust contract rates?

CPI Fuel price surcharges Other: _____

C11. Do you have any LFG collection? If yes please provide the approximate collection efficiency

C12. What kind of LFG system do you use? (i.e., flaring, gen-set, etc.)

C13. How does the site handle leachate?

C14. Are you aware of any significant environmental features, rare species, Aboriginal Treaties, rights or interests or other factors that currently, or may in the future, affect your operations? (Y / N)

If yes, please explain

C15. Is there any other information you think should be considered regarding landfills or your site?

Section D – Thermal Disposal Sites

D1. What is your Environmental Compliance Approval (ECA) (or Certificate of Approval (CofA)) number? _____

D2. Can your site accept waste from St. Marys, Ontario (ECA Service Area? (Y / N)

D3. Do you have capacity to receive 2000-5000 tonnes/year from St. Marys? (Y / N)

D4. What is the current gate fee? _____

\$/tonne

D5. What is the average throughput of your facility? _____ tonnes/day

D6. What is the maximum ECA permitted throughput? _____ tonnes/day

D7. Please provide an estimate on the contract price/ discount rates for larger contracts (2000-5000 tonnes per year)? _____

D8. What is the typical duration of a disposal contract? _____ years

D9. What is the maximum contract duration you are willing to negotiate? _____ years

D10. How have the tipping rates changed over the past 5 years (list of rates or percentage increases)

D11. What thermal technology is used at your facility (incineration, gasification, etc.)?

D12. What is the treatment and disposal process (or site) for bottom ash and fly ash?

D13. Is energy recovery a part of your system, if so what form(s) are used? (Boiler & steam turbine, gas turbine, piston engines, secondary heat recovery, etc.)

D14. What is the approximate level of efficiency achieved at your facility (explain)?

D15. Are there picking lines / material recovery equipment operating at your facility? If so please describe their operations. _____

D16. Are you aware of any significant environmental features, rare species, Aboriginal Treaties, rights or interests or other factors that currently, or may in the future, affect your operations? (Y / N)
If yes, please explain _____

D17. Is there any other information you think should be considered regarding thermal disposal or your site? _____

Challenger Motor Freight
300 Maple Grove Road
Cambridge ON N3E 1B7

Amanda Tucker
WasteCo
235 Curtis Drive
Guelph ON N1K 1Y3

GFL
16 Centennial Road
Kitchener ON N2B 3G1

Doug Tilford
Bluewater Recycling
415 Canada Avenue
Huron Park ON N0M 1Y0

Progressive Waste Solutions
1209 North Service Road East
Oakville ON L6H 1A7

Kevin Still
Miller Waste
8050 Woodbine Ave.
Markham ON L6G 1B2

Peter Brand
TRY Recycling
21463 Clarke Road
Arva ON N0M 1C0

Chris Elliott
Green Valley Recycling
1200 Green Valley Road
London ON N6N 1E3

Clean Harbors
2258 River Road
London ON N5W 6C2

ECL Carriers
7236 Colonel Talbot Road
London ON N6L 1H8

Walkers Environmental Group
Southwestern Landfill
PO Box 100
Thorold ON L2V 3B8

Southwestern Landfill
Walker Environmental Group
PO Box 100
Thorold ON L2V 3Y8

Waste Management Inc.
Twin Creeks Landfill
8039 Zion Line
Watford ON N0M 2S0

Republic Services Inc.
Carleton Farms Landfill
28800 Clark Road
New Boston Michigan 43164

BFI Canada Inc.
Ridge Landfill
20262 Erieau Road
Blenheim ON N0P 1A0

Emerald Energy from Waste Inc.
7656 Bramalea Road
Brampton ON L5S 1C4

Brooks Road Environmental
160 Brooks Road
Cayuga ON N0A 1E0

Town of St. Marys
St. Marys Future Solid Waste Disposal Needs Environmental Assessment Report
Private Waste Service Providers Survey

Survey Responses

Table 1 - Area Waste Hauler Information

First Name	Last Name	Title	Organization	Final Responses
Greg	Hale	Operations Manager	Challenger Motor Freight	Survey completed & emailed to R. J. Burnside & Associates
Amanda	Tucker	General Manager	WasteCo	Contact was made, however, the completed survey has not been provided.
Tony	Lopez	MRC and Centennial Operations Manager	GFL Environmental Inc	Survey completed & emailed to R. J. Burnside & Associates
Francis	Veilleux	President	Bluewater Recycling	No information provided - described as "commercially sensitive" and unavailable for public distribution
			Progressive Waste Solutions	No response to mailed letter or telephone calls regarding the survey
Rick	Vandersluis	Vice President	TRY Recycling	Survey completed & emailed to R. J. Burnside & Associates
Rick	Declercq	President	Green Valley Recycling	Survey completed & emailed to R. J. Burnside & Associates
Chris	Havens	Field Service Coordinator	Clean Harbors	Informed via email that Clean Harbors London is no longer active.
Ray	Fillion	Director, Business Development	ECL Carriers	Survey completed & faxed to R. J. Burnside & Associates

Table 2 - Waste Disposal Site Information

First Name	Last Name	Title	Organization	Final Responses
Shawn	Jordan	Sales Manager	Walker Environmental Group	Survey completed & emailed to R. J. Burnside & Associates
Luiza	Furtado	Communications Manager	Waste Management Inc., Twin Creeks Landfill	Survey completed & emailed to R. J. Burnside & Associates
Robert	Web	Vice President	Republic Services Inc., Carleton Farms Landfill	Survey completed & emailed to R. J. Burnside & Associates
Wes	Belanger	Operations Manager	BFI Canada Inc., Ridge Landfill	Survey completed & emailed to R. J. Burnside & Associates
Joseph	Lyng	General Manager	Emerald Energy from Waste Inc.	Survey completed & emailed to R. J. Burnside & Associates
Richard	Weldon	General Manager	Brooks Road Environmental	Contact was made, however, the completed survey has not been provided.

**Town of St. Marys
St. Marys Future Solid Waste Disposal Needs Environmental Assessment Report
Private Waste Service Providers Survey**

Survey Section A - Waste Haulage

Organization: Question:	Challenger Motor Freight	TRY Recycling	ECL Carriers	Walker Environmental Group	Waste Management of Canada Corporation, Twin Creeks Landfill	Emerald Energy from Waste Inc.
A1. Please provide a typical haulage rate and disposal location? (\$/tonne, assuming 2000 – 5000 tonnes/year)	\$35 - \$42 per metric tonne		\$26/ mt in the Detroit, MI area	\$ 24.50 PMT from St. Marys to WEG Niagra Landfill, assumes 33MT per load	\$60 - \$80 per MT depending on location and waste type	Disposal at Emerald Energy from Waste in Brampton: \$16.50 per tonne (for haulage)
A2. Please provide a brief list of disposal sites you currently haul to:	Green Lane (St Thomas, ON); Carlton Farms (New Boston, MI); Pinetree (Lenox, MI); Walker Bros (Niagra Falls, ON)		Republic Waste (New Boston, MI) and Waste Management (Lenox, MI)	WEG, Niagra Landfill (Ontario) and Covanta WTE (Niagra Falls, N.Y.)	We haul to hundreds of sites but internalize the majority of our volume in Southwest Ontario to our Twin Creeks Landfill (Lambton, Ontario) or Petrolia Landfill (Lambton, Ontario)	Niagra Waste Landfill (Niagra Falls ON); York-Durham Energy Center (Oshawa ON); Emerald Energy from Waste (Brampton ON)
A3. What is the service area provided by your company? Does it include St. Marys?	Any and all	Ontario and yes	Yes	Southern Ontario. Yes, it would include St. Marys	The service is all Ontario which includes St. Marys	Yes
A4. What is your Environmental Compliance Approval (ECA), Certificate of Approval (CofA) or Environmental Activity and Sector Registry (EASR) number?	A841577	A040146		A8248	Hauling: A840311	A8597
A5. Please provide an estimate of your waste haulage fleet average fuel economy (preferably in Litres per Tonne Kilometer or US gallons per Ton Mile).	4.5 miles per gallon	Service provided by Republic Waste	4.2/MPG	1.8 kilometres per liter		
A6. Do you offer haulage services to the U.S. (Y / N) If yes which States (circle) New York; Michigan; Ohio; Other	Y: New York, Michigan		Y: All	Y: New York, Ohio, Pennsylvania	Y: Haulage availability in each State	N
A7. Please provide an estimate on the contract price/ discount rates for larger contracts (2000-5000 tonnes per year)?	1 load in 100. Loads are redirected to Canadian Landfills		D15. Are there picking lines / material recovery equipment operating at your facility? If so please describe their operations	> 5 per year. Loads would be redirected to our Niagra Landfill	Negligable load rejections. Numerous contingency sites are available in Ontario if loads are rejected. If rejected in Michigan, alternate sites are Petrolia or Twin Creeks Landfill	

**Town of St. Marys
St. Marys Future Solid Waste Disposal Needs Environmental Assessment Report
Private Waste Service Providers Survey**

Survey Section A - Waste Haulage

Organization: Question:	Challenger Motor Freight	TRY Recycling	ECL Carriers	Walker Environmental Group	Waste Management of Canada Corporation, Twin Creeks Landfill	Emerald Energy from Waste Inc.
A8. Frequency of load fires (#/year)	1 fire in 20 years		D16. Are you aware of any significant environmental features, rare species, Aboriginal Treaties, rights or interests or other factors that currently, or may in the future, affect your operations? (Y / N) If yes, please explain	0	Negligable	None
A9. What is your current fleet size? (Trucks and Trailers)	Trucks: 68; Trailers:90		Trucks: 134; Trailers: 178	Trucks: 17, Trailers: 14, Walking Floors: 11,	In Ontario: Trucks: 10, Trailers: 20	Trucks > 100
A10. What is the typical duration of a contract? (years)	3 - 5 years with extensions		3 - 7	1 - 5	Municipal disposal contracts range from 5 - 25 years	1 - 5
A11. What is the maximum contract duration you are willing to negotiate? (years)	5	10 - 20	10	10	25	10+
A12. How have the tipping fees changed over the past 5 years (list of fees or percentage increases)?	We only do hauling; customer looks after tipping fees		Unaware of this	+/- 5% continual decline with par dollar & cheap fuel, stabilizing now with lower Canadian dollar	Municipal disposal contracts typically include CPI or change of law/tax clauses	Fee changes are dependant on customer and materials; some have risen, some have fallen
A13. What methods are commonly used to adjust contract rates? (CPI, Fuel price surcharges, Other)	CPI, Fuel price surcharges	CPI	CPI, Fuel price surcharges	CPI, Fuel price surcharges	CPI, Fuel price surcharges	CPI, Fuel price surcharges

**Town of St. Marys
St. Marys Future Solid Waste Disposal Needs Environmental Assessment Report
Private Waste Service Providers Survey**

Survey Section A - Waste Haulage

<p style="text-align: center;">Organization:</p> <p>Question:</p>	Challenger Motor Freight	TRY Recycling	ECL Carriers	Walker Environmental Group	Waste Management of Canada Corporation, Twin Creeks Landfill	Emerald Energy from Waste Inc.
<p>A14. Is there any other information you think should be considered regarding waste haulage?</p>			<p>Transfer station equipment, ie: compactors to maximize trailer payloads</p>	<p>Haulage is generally offered as an extension of disposal and recycling services. This offers an integrated system for waste management and one point of contact for our customers. Our transfer station in Burlington is 1.5 hours away from St. Marys, making it an unlikely candidate for Waste Transfer Service</p>	<p>St. Marys waste volume is small. Therefore, roll-off and curbside collection vehicles should haul direct to a disposal site. A depot should be set up for local volume service in front-load bins</p>	<p>Dumurrage or Wait times may apply if there are delays at either end of the trip in excess of 1 hour. Minimum weight load will apply.</p>

Town of St. Marys

St. Marys Future Solid Waste Disposal Needs Environmental Assessment Report

Private Waste Service Providers Survey

Survey Section B - Transfer Stations

Organization:	GFL Environmental Inc	TRY Recycling	Green Valley Recycling	Waste Management of Canada Corporation, Twin Creeks Landfill
Question:				
B1. Is your site licensed/permitted to receive waste from St. Marys, Ontario (ECA Service Area)? (Y/N)	Y	Y	Y	Y
B2. Do you have capacity to receive 2000-5000 tonnes/year from St. Marys? (Y / N)	Y	Y	Y	Y
B3. What is your Environmental Compliance Approval (ECA) (or Certificate of Approval (CofA) number?	ECA: # A140219	A040146	6751-6DFQ4A	Nearest to St. Marys is our London, Waterloo, Cambridge, Mount Forest or Petrolia transfers
B4. Is waste from your site permitted to be hauled to the U.S.? (Y / N) If yes which States (New York; Michigan; Ohio; Other)	Y. Michigan	Y. Michigan	Y. Michigan	Y. Haulage availability in each state
B5. If yes can you provide an approximate frequency of loads rejected at border? How are these handled/avoided?	No rejection, provided there is no hazardous or radioactive materials present	None to date	None that we are aware of	Negligible load rejections. Numerous contingency sites are available in Ontario
B6. Please provide a brief list of disposal sites you currently haul to:	Ridge Landfill, ON: Pinetree Landfill, MI	Carleton Farms, Republic Waste	W12A Landfill, City of London; Ridge Landfill, Blenheim; Greenlane Landfill, Toronto	We haul to hundreds of sites but internalize the majority of our waste volume in Southwest Ontario to our Twin Creeks Landfill (Lambton, Ontario) or Pine Tree Landfill (Michigan)
B7. Please provide an estimate on the contract price/ discount rates for larger contracts (2000-5000 tonnes per year)?	290 - 340		D15. Are there picking lines / material recovery equipment operating at your facility? If so please describe their operations	Twin Creeks Landfill accepts 3000
B8. What is the maximum ECA permitted throughput? (tonnes/day)	350		D16. Are you aware of any significant environmental features, rare species, Aboriginal Treaties, rights or interests or other factors that currently, or may in the future, affect your operations? (Y / N) If yes, please explain	Twin Creeks Landfill has no daily limit, just 750,000/year limit

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Survey Section B - Transfer Stations

Organization:	GFL Environmental Inc	TRY Recycling	Green Valley Recycling	Waste Management of Canada Corporation, Twin Creeks Landfill
Question:				
B9. What is the current tipping fee at your facility? (assume 2000-5000 tonnes per year) \$/tonne	waste (ICI) \$24.50/ tonne		MSW: \$94/ tonne; Mixed C&D: \$74/ tonne, see website for others	\$70 - \$80 for a transfer station
B10. What is the typical duration of a disposal contract? (years)	Negotiable		We review rates yearly	Municipal disposal contracts range from 5 - 25 years
B11. What is the maximum contract duration you are willing to negotiate? (years)	3 - 5	10 - 20	2	25
B12. How have the tipping fees changed over the past 5 years (list of fees or percentage increases)?	First increase of \$3 in past 5 years I'm aware of due to Landfill increases	Typically CPI increases	Mixed C&D rates increased from \$68 in 2008 to \$74 in 2015	Transfer station increases have been minimal, less than 5% over the last 5 years
B13. What methods are commonly used to adjust contract rates? (CPI, Fuel price surcharges, Other)	CPI, Fuel price surcharges	CPI	Fuel price surcharges, labour rates, tipping & landfills	CPI, Fuel price surcharges
B14. Are you aware of any significant environmental features, rare species, Aboriginal Treaties, rights or interests or other factors that currently, or may in the future, affect your operations? (Y / N) If yes, please explain		N		None known
B15. Is there any other information you think should be considered regarding waste transfer stations or your site specifically?				Consideration for transfer offering recyclable mining and CNG offerings

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Survey Section C - Landfill Sites

Organization:	TRY Recycling	Walker Environmental Group	Waste Management of Canada Corporation, Twin Creeks Landfill	Republic Services Inc., Carleton Farms Landfill
Question:				
C1. Is your site licensed/permitted to receive waste from St. Marys, Ontario (ECA Service Area)? (Y/N)		Y	Y	Y
C2. What is your Environmental Compliance Approval (ECA) (or Certificate of Approval (CofA) number?		0084-78RKAM	Twin Creeks: A032203	
C3. Do you have capacity to receive 2000-5000 tonnes/year from St. Marys? (Y / N)	Y	Y	Y	Y
C4. What is the current gate tipping rate? (\$/ tonne)	Retail rate is \$124.65/ tonne	Gate rate is \$55 to \$70 but able to provide contract rate of \$45 to \$55/ tonne	\$40 - \$50 per MT depending on contract	18 CDN
C5. What is the estimated remaining capacity/ operating life at your site? (in terms of volume m ³ and years)		14.5 million & 13	20,000,000 & >25	60,000,000 & 75
C6. Please provide an estimate on the contract price/ discount rates for larger contracts (2000-5000 tonnes per year)?	To be negotiated	50	Negligible	Subject to negotiation
C7. Please provide an estimate on the contract price/ discount rates for larger contracts (2000-5000 tonnes per year)?		3 - 5	D15. Are there picking lines / material recovery equipment operating at your facility? If so please describe their operations	5 - 20
C8. What is the maximum contract duration you are willing to negotiate?	10 - 20	10	D16. Are you aware of any significant environmental features, rare species, Aboriginal Treaties, rights or interests or other factors that currently, or may in the future, affect your operations? (Y / N) If yes, please explain	10
C9. How have the tipping rates changed over the past 5 years (list of rates or percentage increases)		Same as in A12.	Landfill disposal rates have decreased over the last 5 years in order to compete with the Michigan	Have not increased in 5 years

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Survey Section C - Landfill Sites

Organization: Question:	TRY Recycling	Walker Environmental Group	Waste Management of Canada Corporation, Twin Creeks Landfill	Republic Services Inc., Carleton Farms Landfill
C10. What methods are commonly used to adjust contract rates? <input type="checkbox"/> CPI <input type="checkbox"/> Fuel price surcharges <input type="checkbox"/> Other	CPI	CPI, Fuel price surcharges	CPI, Fuel price surcharges	CPI. US\$ exchange rate subject to negotiation
C11. Do you have any LFG collection? If yes please provide the approximate collection efficiency		Yes, approximately 85%	Full LFG collection including permanent and temporary vertical and horizontal wells. Collection efficiency estimated at 85%	Yes, 14 generators
C12. What kind of LFG system do you use? (i.e., flaring, gen-set, etc.)		- 1 megawatt electrical generation; - 4,500 scfm direct use project (send 1 fg to nearby papermill); - 7,500 scfm of flaring capacity	Current LFG destruction system is flare with LFGTE in planning stage	gen-set
C13. How does the site handle leachate?		Collection system, on-site primary treatment, discharge to sanitary sewer	Leachate collection and bulking with disposal to willing municipal licensed receivers and seasonal disposal to onsite poplar plantation	Leachate is collected and trucked off site for treatment
C14. Are you aware of any significant environmental features, rare species, Aboriginal Treaties, rights or interests or other factors that currently, or may in the future, affect your operations? (Y / N) If yes, please explain		N	Our Twin Creeks Landfill has a willing host (Township of Warwick), Community Host agreement with Warwick, Impact Benefits Agreement with Walpole First Nation, Impact Benefits agreement with Landfill Neighbours, Property Value Protection, Liaison Comment, etc. Agreements are in place with all stakeholders.	N

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Survey Section C - Landfill Sites

Organization: Question:	TRY Recycling	Walker Environmental Group	Waste Management of Canada Corporation, Twin Creeks Landfill	Republic Services Inc., Carleton Farms Landfill
<p>C15. Is there any other information you think should be considered regarding landfills or your site?</p>		<p>Company is currently undertaking a project to site a new landfill in Beachville, ON. If approved, this site could provide a secure & long term waste disposal option for St. Marys at significantly reduced haulage costs.</p>	<p>Twin Creeks is 301 hectares & 101.8 hectares are licensed for landfilling with over 25 years available capacity, leachate collection system, Best management practices for odour, dust, litter, Energy from waste planning. Landfill has a site specific liner including primary (leachate) and secondary (groundwater) collection systems. Between the two layers is a recompacted clay liner, 0.75m thick. Poplar tree plantations are also used by phytoremediation</p>	<p>Carleton Farms has received waste from the City of Toronto, regions of Peel and York. Carleton Farms continues to receive waste from numerous customers in Ontario</p>

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Survey Section D - Thermal Treatment Sites

Organization:	Emerald Energy from Waste Inc.
Question:	
D1. What is your Environmental Compliance Approval (ECA) (or Certificate of Approval (CofA))	CofA 4591-56VSTN
D2. Can your site accept waste from St. Marys, Ontario (ECA Service Area? (Y / N)	Y
D3. Do you have capacity to receive 2000-5000 tonnes/year from St. Marys?(Y/ N)	Y
D4. What is the current gate fee? \$/tonne	85 to 95
D7. What is the average throughput of your facility?	365
D6. What is the maximum ECA permitted throughput?	455
D7. Please provide an estimate on the contract price/ discount rates for larger contracts (2000-5000 tonnes per year)?	90
D8. What is the typical duration of a disposal contract? (years)	10 - 20
D9. What is the maximum contract duration you are willing to negotiate? (years)	20
D10. How have the tipping rates changed over the past 5 years (list of rates or percentage increases)	

Organization:	Emerald Energy from Waste Inc.
Question:	
D11. What thermal technology is used at your facility (incineration, gasification, etc.)?	Two stage gasification
D12. What is the treatment and disposal process (or site) for bottom ash and fly ash?	Bottom Ash: Quench cooling, gravity draining, magnetic separation (ferrous recovery). Fly Ash: Shipped off site for disposal
D13. Is energy recovery a part of your system, if so what form(s) are used? (Boiler & steam turbine, gas	The steam produced is used to generate electricity and for direct use by local recycled paper mill
D14. What is the approximate level of efficiency achieved at your facility (explain)?	Difficult to calculate; in addition to our turbine, we have a direct user for our steam
D15. Are there picking lines / material recovery equipment operating at your facility? If so please describe their operations	No picking is done at our site
D16. Are you aware of any significant environmental features, rare species, Aboriginal Treaties, rights or interests or other factors that currently, or may in the future, affect your operations? (Y / N)	N
D17. Is there any other information you think should be considered regarding thermal disposal or your site?	