



May 2014

DURHAM YORK ENERGY CENTRE

Bottom Ash Conditioning System - Amendment to ECA No. 7306-8FDKNX

Submitted to:

Ontario Ministry of the Environment
Environmental Approvals Branch
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

REPORT

Report Number: 11-1151-0132

Distribution:

2 hard copies - MOE Approvals Branch
1 electronic copy - MOE Approvals Branch
1 hard copy - MOE District Office
1 electronic & 1 hard copy - Covanta
1 hard copy - Region of Durham
1 hard copy - York Region
3 hard copies - Golder Associates Ltd.





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APPLICATION FORM

**Environmental Compliance Approval (Waste Disposal Site
Amendment)**

Covanta Energy Corporation

Environmental Compliance Approval Application

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General Information and Instructions

General Information:

Information requested in this form is collected under the authority of the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and Environmental Bill of Rights (EBR), and will be used to evaluate applications for Environmental Compliance Approvals (ECAs) issued under Part II.1 of the EPA. This application form should not be used for *mobile PCB destruction facilities* and *land application sites of septage and biosolids*.

For all questions related to preparing or submitting this form or about the Ministry's collection of information related to applying for an ECA, contact:

Environmental Approvals Access and Service Integration Branch

2 St. Clair Ave. West, Floor 12A,
Toronto, Ontario M4V 1L5.

Telephone outside Toronto 1-800-461-6290
or in Toronto 416-314-8001.

This office can also provide you with
copies of application forms and supporting
documentation.

Instructions:

1. Applicants are responsible for ensuring that they complete the most recent application form. Application forms and information about the required supporting documentation and technical requirements are available from the **Environmental Approvals Access and Service Integration Branch** (the address and phone number are provided in the General Information on this page). As well, you can get this information from your local District Office of the Ministry of the Environment, and on the Resources section of the Ministry of the Environment website at: www.ene.gov.on.ca/environment/en/resources/index.htm.
2. A complete application consists of:
 - a completed and signed application form;
 - all required supporting documents and technical requirements identified in:
 - i. this form,
 - ii. Ministry guidance,
 - iii. the Applications for Environmental Compliance Approvals regulation, and
 - payment of the application fee (in Canadian funds) by certified cheque or money order made payable to the Minister of Finance, or credit card payment (for payments up to \$10,000). For *Transfer of Review*, make your cheque or money order payable to the appropriate municipality.

The Ministry may return incomplete applications to the applicant. The Director may require additional information of any application initially accepted as complete.

3. Submit the complete application as follows:
 - One (1) paper copy (unless your application is a *Transfer of Review*), one (1) electronic copy and the fee to the **Director, Environmental Approvals Access and Service Integration Branch** at the address provided in the General Information on this page.
 - If your application is a *Transfer of Review*, you must submit two (2) copies of the completed application and the fee to the designated municipal authority.
4. You must also send a copy of the application without the fee to the local Ministry District Office that has jurisdiction over the area where the facilities are located. DO NOT send payment to the District Office.
 - To locate the appropriate local Ministry District Office, visit the Ministry of the Environment website at: www.ene.gov.on.ca/environment/en/about/regional_district_offices/index.htm.
5. For Waste Disposal Sites you must also send a copy of the application without the fee to the Clerk's office of the local municipality (both upper and lower tier) in which the facility/proposed facility is located unless the application is for a revocation or an amendment that is environmentally insignificant or the applicant is a

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municipality. DO NOT send any payment information to the municipality.

Information collected by the Ministry of the Environment is subject to the Freedom of Information and Protection of Privacy Act (FIPPA). If you are of the view that any part of application is confidential on the grounds that such information constitutes a trade secret or scientific, technical, commercial, financial or labour relations information, please make this known now. Otherwise, the Ministry may make the information available to the public without further notice to you.

It is an offence under the EPA and OWRA to provide false or misleading information in this application and/or accompanying documents.

The Electronic Form Smart Features

The electronic version of this form incorporates several features to assist you with completing your application.

The electronic form will highlight required information with **red** and **green** indicators. **Red** means that the information is required before the section is complete.

The form will also calculate certain values based on the information you enter and will assist you in ensuring that all required information is included with your application. You can save a copy of this form that includes any information you have entered.

These features are available in Adobe Reader version 8 or above. You can download a copy from the website at: <http://get.adobe.com/reader/otherversions/>.

Smart Features Legend:

These active buttons appear throughout the Application form to provide additional support.

 **Mandatory fields required to be filled in**

 **Mandatory fields completed**

 Click on the question mark icon to receive additional information.

 **Print Form Button** — Prints the entire form.

 **Clear Form Button** — Clears the entire form.

 **Save Form Button** — Saves the entire form.

 **Calculate Button** — Calculates fees.

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Ministry of the Environment
Public Information Centre:
Telephone: 416-325-4000
Toll-free: 1-800-565-4923
E-mail: picemail.moe@ontario.ca
www.Ontario.ca/Environment

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For Office Use Only			
Reference Number	Payment Received \$	Date (yyyy/mm/dd)	Initials

Application Summary

Applicant Name ?

Covanta Durham York Renewable Energy Limited Partnership

Project Name ?

Durham York Energy Centre

Project Description Executive Summary ?

The Durham York Energy Centre is currently being constructed on a 12.1 hectare parcel of land located within the Clarington Energy Business Park on the west side of Osbourne Road in the Regional Municipality of Durham. The facility will function to receive and thermally process municipal solid waste generated in the Regions of Durham and York. The energy content in the form of superheated steam will be used to generate electricity and potentially provide district heating. The hours of operation are 24 hours per day, 7 days per week, 365 days per year. The Facility meets all applicable air, noise, waste, and water environmental requirements in the Province of Ontario.

This ECA amendment application has been prepared to add a Bottom Ash Conditioning System as a physical modification of the Bottom Ash Handling System, as set out in the approved Environmental Compliance Approval. The equipment added is designed to provide additional conditioning of bottom ash before removal from the DYEC site to enhance the pozzolanic properties of bottom ash residue. Conditioning is achieved by adding hydrated lime (calcium hydroxide), the same reagent utilized for acid gas removal, from an existing Hydrated Lime Silo. Additional minor clarifications were made to the initial application language concerning ash operations, and to be consistent with the proposed Ash Sampling and Testing Protocol. Physical modifications to the facility are limited to the Bottom Ash Conditioning System.

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Required Information ?

Project Name & Description	Completed (yes or no)
Section 1: Applicant Information	Yes
Section 2: Project Information	Yes
Section 3: Regulatory Requirements	Yes
Section 4: Site Information	Yes
Section 5: Facility Information	Yes
Section 6: Supporting Documentation	Yes
Section 7: Payment Information	No

Fee Summary: ?

Administrative Processing	\$	200.00
Review of EPA s. 9 activities	\$	0.00
Review of EPA s. 27 activities	\$	1,200.00
Review of OWRA s. 53 activities	\$	0.00
Total Fee	\$	1,400.00

Calculate

Application Status Please complete the sections as shown above

The Ministry may request additional fees upon review of this application.

If you are submitting this form in print version only and are not using the smart calculation feature, please attach the fee calculation separately.

Supplemental Application Information

See help text on required information for this section. ?

Construction of the lime feed conditioning equipment is expected to occur concurrently with construction of the EFW facility, 2013 to 2014.

Copies of this application will be distributed to the Regional Municipality of Durham, the Regional Municipality of York, the Municipality of Clarington, and the York/Durham MOE District Office.

1 Applicant Information

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✓ 1.1 Applicant Information ?

Applicant Name (legal name of individual or organization as evidenced by legal documents)

Covanta Durham York Renewable Energy Limited Partnership

Business Number

324629900

Business Name same as Applicant Name

Business Website Address:

Covanta Durham York Renewable Energy Limited Partnership

Applicant Type:

- Corporation Federal Government
 Individual Municipal Government
 Partnership Provincial Government
 Sole Proprietor Other (describe):

Primary North American Industry Classification System (NAICS) Code ?

:56

Other NAICS codes (select all that apply)

Separate list attached? Yes No

Business Activity Description

Waste treatment and disposal

✓ 1.2 Applicant Physical Address ?

Civic Address – Street Information (includes street number, name, type and direction)

445 South Street

Unit Identifier (suite or unit number)

Survey Address

Lot Concession Part Reference Plan

Municipality/Unorganized Township or Territory Upper Tier/District

Morristown

Province/State

New Jersey

Country

USA

Postal Code/ZIP Code

07960

Telephone Number (include area code & ext.)

862-345-5306 ext.

Fax Number (include area code)

Mobile Number (include area code)

E-mail Address

lbrasowski@covanta.com

Geo Reference (required) ?

Description of location	Map Datum	Zone	Accuracy Estimate	Geo-Referencing Method	UTM Easting	UTM Northing
Southwest corner of property	NAD83	18	+/- 2 m	Aerial Photo	544548.00	4513989.00
Physical location of front door or main entrance						

1 Applicant Information

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✓ 1.3 Applicant Mailing Address ?

Same as Applicant Physical Address? Yes No

Civic Address – Street Information (civic numbering and street information includes street number, name, type and direction)

Unit Identifier (suite or unit number)

445 South Street

Delivery Designator

Delivery Identifier

Postal Station

Municipality/Unorganized Township or Territory

Province/State

Country

Postal Code/ZIP Code

Morristown

New Jersey

USA

7960

✓ 1.4 Statement of the Applicant ?

I am authorized to prepare and submit this application and to make this certification. I have reviewed the complete application and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The information contained in this application is complete and accurate.
- The Technical Contact(s) identified in this application has/have been authorized to prepare certain technical material, and act on behalf of the applicant to discuss this application with the Ministry of the Environment and to provide additional information about this application to the Ministry on request.
- The information provided to the Technical Contact(s) in relation to this application is complete and accurate.

Name of Signing Authority (please print)

Title

Matthew R. Mulcahy

Senior VP, Head of Corporate Development

Telephone Number (include area code & ext.)

Fax Number (include area code)

Mobile Number (include area code)

862-345-5445

ext.

862-345-5150

E-mail Address

Signature

Date (yyyy/mm/dd)

mmulcahy@covantaenergy.com

Matthew R. Mulcahy

2014/05/23

1.5 Statement of the Municipality N/A ?

I, the undersigned hereby declare on behalf of the Municipality, that the Municipality has no objection to the construction of the works in the Municipality.

Name and Title (please print)

Name of Municipality

Signature

Date (yyyy/mm/dd)

2 Project Information

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2.1 Reason for Application ?

- New ECA
 Amendment to existing ECA
 Revocation of existing ECA
 Administrative amendment to existing ECA
 Application for renewal of limited operational flexibility
 Consolidation of existing ECAs

Are you adding a new project type to your site or a new municipal waste category/class code to your waste management systems or a new sewage facility type? Yes No

Is this for *Transfer of Review*? Yes No

2.2 Project Type (select all that apply) ?

Yes	N/A		Limited Operational Flexibility?	Pilot Project?
<input type="radio"/>	<input checked="" type="radio"/>	Air – Stationary	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Air – Mobile	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Noise	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Vibration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Disposal Site – Landfill site	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Disposal Site – Transfer site	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Disposal Site – Processing site	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Disposal Site – Composting site	N/A	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	Waste Disposal Site – Thermal Treatment site	N/A	<input type="checkbox"/>

Yes	N/A		Limited Operational Flexibility?	Pilot Project?
<input type="radio"/>	<input checked="" type="radio"/>	Sewage – Industrial	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Sewage – Municipal	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Sewage – Private	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Management System – General Waste Management System	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Management System – Hauled Sewage (Septage)	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Management System – Soil Conditioner for transport to a site for Application on Land	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Management System – Mobile Waste Processing	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Cleanup of contaminated sites – Mobile	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Cleanup of contaminated sites – Site-specific	N/A	<input type="checkbox"/>

2 Project Information

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2.3 Approval Information ?

Application initiated by:

- Applicant
 S. 20.18 Order (attach copy)
 Condition of existing approval
 Provincial Officer Order (attach copy)
 Inspection Report (attach copy)
 Other (specify):

Current Environmental Compliance Approvals that may be changed or amended by this application: N/A

Separate list attached? Yes No

Environmental Compliance Approval Number	Date of Issuance (yyyy/mm/dd)
Certificate of Approval 7306-8FDKNX	2011/06/28

Environmental Compliance Approval Number	Date of Issuance (yyyy/mm/dd)

Proposed Environmental Compliance Approvals related to this project: N/A

Separate list attached? Yes No

Project type	Ministry Reference Number (if applicable)	Have submitted	Have not submitted
		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>

2.4 Other Approval/Permits for Facility N/A ?

Separate list attached? Yes No

List all other instruments (approvals or permits) issued by the Ministry of the Environment or applied for under the Environmental Protection Act, Environmental Assessment Act, Ontario Water Resources Act and Safe Drinking Water Act, 2002 and any Environmental Activity and Sector Registrations that are relevant to this application.

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

2 Project Information

Print Form

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2.5 Technical Contacts ?

Technical Contact 1

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact		Company	
Leon Brasowski		Covanta Energy Corporation	
Telephone Number (include area code & ext.)	Mobile Number (include area code)	Fax Number (include area code)	E-mail Address
862-345-5306 ext.			lbrasowski@covanta.com

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction)			Unit Identifier (suite or unit number)
445 South Street			
Delivery Designator	Delivery Identifier	Postal Station	
Municipality/Unorganized Township or Territory	Province/State	Country	Postal Code/ZIP Code
Morristown	New Jersey	USA	07960

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature	Date (yyyy/mm/dd)
	2014/5/23

2 Project Information

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Technical Contact 2 ?

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact Company

Telephone Number (include area code & ext.) ext. Mobile Number (include area code) Fax Number (include area code) E-mail Address

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

Delivery Designator Delivery Identifier Postal Station

Municipality/Unorganized Township or Territory Province/State Country Postal Code/ZIP Code

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature Date (yyyy/mm/dd)

2 Project Information

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Technical Contact 3 ?

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact Company

Telephone Number (include area code & ext.) ext. Mobile Number (include area code) Fax Number (include area code) E-mail Address

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

Delivery Designator Delivery Identifier Postal Station

Municipality/Unorganized Township or Territory Province/State Country Postal Code/ZIP Code

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature Date (yyyy/mm/dd)

2 Project Information

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Technical Contact 4 ?

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact Company

Telephone Number (include area code & ext.) ext. Mobile Number (include area code) Fax Number (include area code) E-mail Address

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

Delivery Designator Delivery Identifier Postal Station

Municipality/Unorganized Township or Territory Province/State Country Postal Code/ZIP Code

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature Date (yyyy/mm/dd)

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3.1 Environmental Bill of Rights (EBR) Requirements ?

Is this a proposal for a prescribed instrument under the EBR? Yes No

If yes, is this proposal exempted from the EBR requirements? Yes No

If yes, please check one of the following (Please provide supporting information.)

- This proposal has been considered in a substantially equivalent process of public participation. (EBR, 1993, s.30.)
- This proposal is for an emergency situation. (EBR, 1993, s. 29.)
- This proposal is for an amendment to or revocation of an existing Environmental Compliance Approval that is not environmentally significant. (EBR, 1993, s. 22 (3).)
- This proposal has been subject to or exempted from EAA Requirements or considered in a decision of a tribunal. (EBR, 1993, s. 32.)

3.2 Environmental Assessment Act (EAA) Requirements ?

Is the proposed undertaking subject to the requirements of the EAA? Yes No

If yes, please check one of the following:

- The undertaking has fulfilled the requirements of the EAA through an exemption provided under:
 - Section _____ of Ontario Regulation No. _____ or
 - Declaration/Exemption Order Number _____
 - If Regulation, Declaration Order or Exemption Order does not refer directly to this undertaking, please provide supporting documentation to explain why it applies to this facility.
- The proposed undertaking has fulfilled the requirements of the EAA through the completion of a Class EA process:
 - Name of Class EA: _____
 - Schedule/Group/Category (if applicable): _____
 - If applicable, please submit a copy of the proof of completion (for example, Notice of Completion).
 - Was the undertaking subject of a Part II Order request(s)? Yes No If yes, please submit a copy of the Director's or Minister's decision letter.
- The proposed undertaking has fulfilled all of the requirements for the EAA through:
 - completion of an Environmental Screening Process pursuant to O. Reg. 101/07 of the EAA
 - completion of an Environmental Screening Process pursuant to O. Reg. 116/01 of the EAA
 - Was the undertaking subject of an elevation request(s)? Yes No If yes, please submit a copy of the Director's decision letter.
 - If an appeal was made of the Director's decision, please also submit a copy of the Minister's decision letter.
 - completion of an Environmental Screening Process pursuant to O. Reg. 231/08 of the EAA
 - Was the undertaking subject of an objection(s)? Yes No If yes, please submit a copy of the Minister's decision letter.
- The proposed undertaking has fulfilled the requirements of the EAA through the completion of an individual Environmental Assessment.
 - Please submit a copy of the signed Notice of Approval.

3 Regulatory Requirements

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3.3 Consultation/Notification

Are there any consultation/notification activities that you have undertaken to fulfill requirements by other legislation or through voluntary efforts?

Yes No

If yes, please:

- 1) describe the consultation/notification activities below; and
- 2) attach documents describing each of these consultation/notification activities, any changes to the project as a result of these activities and any planned consultation/notification activities in the future.

4 Site Information

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4.1 Site Address or Storage Location ?

Will the vehicles or equipment be stored at more than one location? Yes No

(If yes, please enter all vehicle or equipment storage locations below and attach separate list, as necessary.)

Same as Applicant Physical Address? Yes No

Primary Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

1835 Energy Drive	
Additional Civic Addresses Separate list attached? <input type="radio"/> Yes <input checked="" type="radio"/> No	Unit Identifier (suite or unit number)

Primary Survey Address

Lot	Concession	Part	Reference Plan
27	Broken Front	1	40R-26782

Municipality/Unorganized Township or Territory	Upper Tier/District	Province/State	Country	Postal Code/ZIP Code
Municipality of Clarington	Region of Durham	Ontario	Canada	L1E 2R2

Non-address Information (includes any additional information to clarify the physical location)

--

Same as Applicant Physical Geo Reference? Yes No ? Geo Reference (required)

Description of location	Map Datum	Zone	Accuracy Estimate	Geo-Referencing Method	UTM Easting	UTM Northing
Southwest corner of property	NAD83	17	+/- 5 m	Firstbase Map	680425.04	4860195.22
Physical location of front door or main entrance	NAD83	17	+/- 5 m	Firstbase Map	680425.04	4860195.22

4 Site Information

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4.2 Site or Storage Location Information ?

Site Name: Durham York Energy Centre
Days and Hours of Operation: 7 days per week, 24 hours per day
Ministry of the Environment District Office: York-Durham District Office

Is the site (property) that is the subject of this application owned by the applicant?

If no, please include the owner's name, address and a signed document indicating that the applicant has the authority to install and operate the proposed activity, or store vehicles or equipment on the land. Yes No

Is the applicant the operating authority of the site that is the subject of this application?

If no, please include the operating authority name, address and phone number. Yes No

Is the site located in an area of development control as defined by the Niagara Escarpment Planning & Development Act (NEPDA)?

If yes, please attach a copy of the NEPDA permit for proposed activity. Yes No

Is the site within an area covered by the Oak Ridges Moraine Conservation Plan?

If yes, please attach proof of municipal planning approval for the proposed activity/work (for example, zoning by-law, letter from municipality, etc.). Yes No

4.3 Site Zoning and Classification ?

Current Land Use: Vacant
Official Plan Designation: Urban System - Employment Area
Current Zoning (Please attach zoning map, if available.): Energy Park General Industrial

Adjacent Land Use (select all that apply)

- Industrial Commercial Residential
 Agricultural Recreational Other (specify):

Adjacent Land Zoning

Industrial / Agricultural

Does the current zoning permit the proposed activity?

Yes No

Does the applicant have correspondence from the municipality to confirm that the current zoning of the property permits the proposed use?

Yes No If yes, please attach correspondence from the municipality.

Does the official plan designation support the proposed activity?

Yes No N/A

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4.4 Point of Entry into Ontario (for waste management system vehicles that are stored at an address outside of Ontario)



City in closest proximity to the point of entry	Description of Point of Entry

4.5 Source Protection/Drinking Water Threats (sewage or waste disposal site applications only)



Check the source protection area(s) where the activity is/will be located:

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Ausable Bayfield | <input type="checkbox"/> Grand River | <input type="checkbox"/> Raisin Region | <input type="checkbox"/> Lower Thames Valley |
| <input type="checkbox"/> Maitland Valley | <input type="checkbox"/> Kettle Creek | <input type="checkbox"/> South Nation | <input type="checkbox"/> St. Clair Region |
| <input type="checkbox"/> Cataraqui Region | <input type="checkbox"/> Long Point | <input type="checkbox"/> Grey Sauble | <input type="checkbox"/> Upper Thames River |
| <input checked="" type="checkbox"/> Central Lake Ontario | <input type="checkbox"/> Lakehead | <input type="checkbox"/> Northern Bruce Peninsula | <input type="checkbox"/> Crowe Valley |
| <input type="checkbox"/> Credit Valley | <input type="checkbox"/> Mattagami | <input type="checkbox"/> Saugeen Valley | <input type="checkbox"/> Ganaraska |
| <input type="checkbox"/> Toronto and Region | <input type="checkbox"/> Mississippi Valley | <input type="checkbox"/> Sault Ste. Marie | <input type="checkbox"/> Kawartha-Haliburton |
| <input type="checkbox"/> Essex | <input type="checkbox"/> Rideau Valley | <input type="checkbox"/> Lake Simcoe & Couchiching/Black River | <input type="checkbox"/> Lower Trent |
| <input type="checkbox"/> Halton | <input type="checkbox"/> Niagara | <input type="checkbox"/> Nottawasaga Valley | <input type="checkbox"/> Otonabee-Peterborough |
| <input type="checkbox"/> Hamilton | <input type="checkbox"/> North Bay Mattawa | <input type="checkbox"/> Severn Sound | <input type="checkbox"/> Outside a source protection area |
| <input type="checkbox"/> Catfish Creek | <input type="checkbox"/> Quinte | <input type="checkbox"/> Sudbury | |

Is the proposed activity located or planned to be located in a vulnerable area identified in a local assessment report source protection plan under the Clean Water Act, 2006?

- Yes No

If yes, what is/are the vulnerable area(s)/zone(s)?

- | | |
|---|---|
| <input type="checkbox"/> Wellhead Protection Areas | <input type="checkbox"/> Surface Water Intake Protection Zones |
| <input type="checkbox"/> Highly Vulnerable Aquifers | <input type="checkbox"/> Significant Groundwater Recharge Areas |

Is the activity being applied for identified as a significant drinking water threat in the assessment report for the local source protection area?



- Yes No

Print Form

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4.6 Receiver of Effluent Discharge (sewage applications only)



Intermediate Receiver Name

Watershed Name

Surface Water Groundwater Other (specify):

Has the facility received local Conservation Authority clearance? (for stormwater management facility discharging to the natural environment)

Yes N/A If yes, please include a copy of the Conservation Authority clearance.

Final Receivers N/A

Will the proposed activity discharge sewage to any of the following critical receivers?

Lake Simcoe Rideau River Detroit River Other (specify):
 Great Lakes Rouge River Bay of Quinte

Is the receiver a Policy 2 receiver? Yes No

Do you have a Policy 2 deviation approval from the directors? Yes No If yes, please attach a copy of the Director's approval.

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5.1 Air ? IF YOUR APPLICATION DOES NOT HAVE AIR EMISSIONS PLEASE PROCEED TO SECTION 5.2

5.1.1 Summary of Equipment that Discharges Contaminants to the Air ?

(√)	Description	Number of Pieces of Equipment
<input type="checkbox"/>	Combustion equipment that uses natural gas, propane, no. 2 oil, landfill gas or sewage treatment gas for fuel for the purpose of providing comfort heating or emergency power, producing hot water or steam, or heating material in a system that does not discharge to the atmosphere (Total Heat input of all units ≤ 50,000,000 kJ/hr)	N/A
<input type="checkbox"/>	Storage tanks	N/A
<input type="checkbox"/>	Welding operations that use a maximum of 10 kilograms of welding rod per hour	N/A
<input type="checkbox"/>	Combustion equipment that uses waste-derived fuel for the purpose of providing comfort heating, burning ≤ 15 litres per hour	
<input type="checkbox"/>	Heat cleaning ovens used for parts cleaning and associated parts washers or degreasing equipment, other than solvent degreasing equipment	
<input type="checkbox"/>	Cooling towers	
<input type="checkbox"/>	Equipment used to control emissions of contaminants, other than a fume incinerator	
<input type="checkbox"/>	Laboratory fume hoods	
<input type="checkbox"/>	Paint spray booths and associated equipment that have a design capacity of up to 8 litres per hour of paint	
<input type="checkbox"/>	Grain dryers	
<input type="checkbox"/>	Any other equipment not listed above with a flow rate of less than or equal to 1.5 m ³ per second	
<input type="checkbox"/>	Any other equipment not listed above with a flow rate of greater than 1.5 m ³ per second	
<input type="checkbox"/>	Equipment that is subject to an Environmental Compliance Approval, and from which there is no proposed increase in the discharge of any contaminant that was previously reviewed by the Director.	N/A

5.1.2 Emission Summary and Dispersion Modelling (ESDM) Report ?

Is the review of an existing, approved ESDM required as part of this proposed application? Yes No

If yes, identify the number of emission sources described in the existing ESDM Report that emit contaminants in common with the sources forming the subject of the application (if none, enter zero).

Have all of these emission sources been described in an ESDM Report that was previously reviewed as part of an application for an existing Environmental Compliance Approval? Yes No

Print Form

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5.1.3 O. Reg. 419/05 Requirements

Which of the following sections of O. Reg. 419/05 applies to the facility?

s.19 (Schedule 2) s.20 (Schedule 3) Does not apply. Please indicate reason:

Has an instrument under O. Reg. 419/05 been issued? Yes No

If yes, what type(s) of instruments (including any notices, orders or approvals) has (have) been issued? (select all that apply)

- | | |
|---|---|
| <input type="checkbox"/> ss. 4(2) Adjacent Properties | <input type="checkbox"/> ss. 20(4) Speed-up Request |
| <input type="checkbox"/> ss. 7(1) Specified Dispersion Models | <input type="checkbox"/> ss. 20(5) Speed-up Order |
| <input type="checkbox"/> ss. 8(2) Negligible Sources | <input type="checkbox"/> s. 35 Site-specific Standard |
| <input type="checkbox"/> ss. 10(2) Operating Conditions | <input type="checkbox"/> ss. 35(14) Site-specific Standard Order |
| <input type="checkbox"/> ss. 11(2) Refined Emission Rates | <input type="checkbox"/> ss. 39(3) Technical Standard Registration (Industry Standard) |
| <input type="checkbox"/> ss. 13.1 Value of Dispersion Modeling Parameters | <input type="checkbox"/> ss. 39(4) Technical Standard Registration (Equipment Standard) |
| <input type="checkbox"/> ss. 13(1) Meteorological Data | |
| <input type="checkbox"/> ss. 14(6) Area of Modelling Coverage | |
| <input type="checkbox"/> Other (list all that have been issued): | |

Is an instrument under O. Reg. 419/05 being requested as part of this application? Yes No

If yes, what type(s) of notice, order or approval is (are) being requested?

- | | |
|---|---|
| <input type="checkbox"/> ss. 7(1) Specified Dispersion Models | <input type="checkbox"/> ss. 14(6) Area of Modelling Coverage |
| <input type="checkbox"/> ss. 8(2) Negligible Sources | <input type="checkbox"/> ss. 20(4) Speed-up Request |
| <input type="checkbox"/> ss. 10(2) Operating Conditions | <input type="checkbox"/> s. 32 Request for a Site-specific Standard Order |
| <input type="checkbox"/> ss. 11(2) Refined Emission Rates | <input type="checkbox"/> ss. 39(1)(a) Application for Technical Standard Registration (Industry Standard) |
| <input type="checkbox"/> ss. 13(1) Meteorological Data | <input type="checkbox"/> ss. 39(1)(b) Application for Technical Standard Registration (Equipment Standard). |
| <input type="checkbox"/> Other (list all that have been requested): | |

Please attach the form(s) requesting the notice(s) and/or order(s) and any additional supporting information.

Has an s.30 Upper Risk Threshold (Schedule 6) been exceeded? If yes, please include additional supporting information. Yes No

Is the facility located in a multi-tenant building? If yes, additional information may be requested. Yes No

Are all of the contaminants to which the application relates represented in the Ministry of the Environment publication titled "Summary of Standards and Guidelines to support Ontario Regulation 419: Air Pollution – Local Air Quality" or have they been screened out based on the publication titled "Jurisdictional Screening Level (JSL) List, A Screening Tool for Ontario Regulation 419: Air Pollution – Local Air Quality"? (If no, please attach Supporting Information for a Maximum Ground Level Concentration Acceptability Request for Compounds with no Ministry POI Limit – Supplement to Application for Approval, EPA S.9 (PIBS 4872)). Yes No

5 Facility Information

Print Form

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Save Form

5.2 Noise

IF YOUR APPLICATION DOES NOT HAVE NOISE EMISSIONS, PLEASE PROCEED TO SECTION 5.3.

5.2.1 Noise Assessment

Have you completed an Acoustic Assessment Report (AAR) or Abbreviated Acoustic Assessment Report (A-AAR)? Yes No

If yes, please indicate the report you have completed:

AAR Please attach the Acoustic Assessment Report.

Does the AAR show that applicable limits are met? Yes No

If no, please attach the Acoustic Assessment Report including the Noise Abatement Action Plan.

A-AAR Please attach the Abbreviated Acoustic Assessment Report.

Does the A-AAR show that applicable limits are met? Yes No

Note that certain conditions must be met before using the A-AAR and that the A-AAR must show that the applicable limits are met otherwise an AAR may be required.

If no, is the application eligible for Primary or Secondary Noise Screening? Yes No

Note that if you are not eligible for either of the screenings, you must submit either an AAR or A-AAR.

If yes, is your proposed activity described with one of the NAICS codes that are eligible for the Primary Noise Screening? Yes No

If yes, is the actual separation distance between the facility and the noise sensitive point of reception (POR) greater than the minimum required separation distance calculated from the Primary Noise Screening? Yes No

If yes, please attach the Primary Noise Screening form and supporting documentation.

Note that if the Primary Noise Screening is not successful then you may attempt to proceed with the secondary noise screening.

If no, does the Secondary Noise Screening report show that the applicable sound level limits are met? Yes No

If yes, please attach the Secondary Noise Screening Report and supporting documentation.

Note that if you cannot demonstrate that the applicable sound level limits are met then you must submit either an AAR or A-AAR.

Print Form

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Save Form

5.2.2 Equipment Subject to Noise Review ?

(√)	Description	Number of Pieces of Equipment
<input type="checkbox"/>	Arc Furnaces	
<input type="checkbox"/>	Asphalt Plants	
<input type="checkbox"/>	Blow-down Devices	
<input type="checkbox"/>	Co-generation Facilities	
<input type="checkbox"/>	Crushing Operations	
<input type="checkbox"/>	Flares	
<input type="checkbox"/>	Gas Turbines	
<input type="checkbox"/>	Pressure Blowers or Large Induced Draft Fans (flow rate > 47m ³ /second or static pressure > 1.25 kilopascals)	
<input type="checkbox"/>	Any other equipment not listed above that has not previously been reviewed by the Director in connection with an application for an Environmental Compliance Approval with respect to the facility	
<input type="checkbox"/>	Any other equipment not listed above that is identical to equipment for which a noise assessment was previously reviewed by the Director in connection with an application for an Environmental Compliance Approval with respect to the facility	

5 Facility Information

Print Form

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5.3 Sewage Works

? IF YOUR APPLICATION DOES NOT CONTAIN SEWAGE WORKS PLEASE PROCEED TO SECTION 5.4

5.3.1 Facility Type – Sewage Works



Select the type of facility that is the subject of the application (select all that apply).

Sewage Treatment Plant (STP)

Further information:

- Primary
- Secondary
- Tertiary
- Receives septage
- Constructed/Engineered Wetlands

- On-site system
- Lagoons (check all that apply below)
 - Septage
 - Municipal
 - Other (specify):

Municipal or private facility

Category: New 1 2 3 4

Please indicate the maximum design capacity of the municipal or private sewage treatment plant:

≤ 4,550 m³/day > 4,550 m³/day

Facility for the treatment of leachate

Category: New 1 2 3 4

Facility for the treatment of industrial process wastewater

Category: New 1 2 3 4

Facility for the disposal of non-contact cooling water

Subsurface disposal

Please indicate the design capacity of the subsurface disposal:

≤ 15 m³/day > 15 m³/day and < 50 m³/day > 50 m³/day

Stormwater Management Facility

Category: New 1 2 3 4

Wet Pond Dry Pond Other (specify):

For the following, you must complete and attach the relevant sections of the pipe data form:

- Storm Sewers Ditches
- Combined Sewers Forcemains
- Sanitary Sewers Pumping Station

Is a Hydrogeological Assessment required? Yes No (If yes, please attach the hydrogeological assessment.)

Is a review of effluent criteria assessment for stormwater management, cooling water or soil remediation facilities required? Yes No
(If yes, please attach the final effluent criteria accepted by the Regional Office of the Ministry.)

Is a review of effluent criteria assessment for municipal or private sewage, industrial process wastewater or leachate treatment plant required? Yes No
(If yes, please attach the final effluent criteria accepted by the Regional Office of the Ministry.)

5 Facility Information

[Print Form](#)

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5.3.2 Servicing ?

The works will provide sewage servicing for (select all that apply):

- Residential
 Subdivision
 Is there a Municipal Responsibility Agreement in place?
 Yes
 No
 N/A
 Condominium
 If yes, please attach a copy of the Municipal Responsibility Agreement.
 Institutional
 Other (specify):

- Commercial
 Hotel, Motel, Inn
 Campground, Park
 Rental Cabins
 Resort
 Shopping Malls
 Other (specify):
 Restaurant
 Highway Service Station/Gas Bars

- Industrial Describe:

5.3.3 Sewage Servicing for Waste Disposal/Landfill Sites ?

Does/Will the sewage treatment facility receive waste disposal/landfill site leachate?
 Yes
 No
 If yes, please identify the site(s) below.

Name of Site Contributing Leachate	Environmental Compliance Approval Number	Volume of leachate (m ³)
1.		
2.		
3.		
4.		
5.		

5 Facility Information

Print Form

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Save Form

5.4.2 Waste Transfer/Processing/Composting – Complete this information if waste transfer and/or processing and/or composting take(s) place at this facility



Waste Types to be Transferred or Processed	Design Capacity
<input type="checkbox"/> Hazardous waste or liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day <input type="radio"/> > 100 tonnes per day
<input type="checkbox"/> Waste other than hazardous waste and liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day <input type="radio"/> > 100 tonnes per day

Change to Operations ?		
<input type="radio"/> No Change Proposed	<input type="radio"/> Change does not require fundamental design review	<input type="radio"/> Change requires fundamental design review

Liquid Waste								
Maximum Storage Capacity (m³)			Maximum Residual for Final Disposal (m³)					
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous		Liquid Industrial		Other Liquid Waste	
			Daily	Annually	Daily	Annually	Daily	Annually

Solid Waste					
Maximum Storage Capacity (tonnes)		Maximum Residual for Final Disposal (tonnes)			
Hazardous	Non-hazardous	Hazardous		Non-hazardous	
		Daily	Annually	Daily	Annually

Maximum Amount of Waste to be Received Daily					
Liquid (m³)			Solid (tonnes)		
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous	Non-hazardous	

5 Facility Information

Print Form

Clear Form

Save Form

5.4.3 Thermal Treatment Facility – Complete this information if thermal treatment takes place at this facility ?

Waste Type for Thermal Treatment		Design Capacity	
<input type="checkbox"/>	Hazardous waste or liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day	<input type="radio"/> > 100 tonnes per day
<input checked="" type="checkbox"/>	Waste other than hazardous waste and liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day	<input checked="" type="radio"/> > 100 tonnes per day

Change to Operations ?		
<input type="radio"/>	No Change Proposed	<input checked="" type="radio"/> Change does not require fundamental design review
<input type="radio"/>	Change requires fundamental design review	

Liquid Waste								
Maximum Storage Capacity (m³)			Maximum Residual for Final Disposal (m³)					
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous		Liquid Industrial		Other Liquid Waste	
			Daily	Annually	Daily	Annually	Daily	Annually
		0.00					0.00	0.00

Solid Waste					
Maximum Storage Capacity (tonnes)		Maximum Residual for Final Disposal (tonnes)			
Hazardous	Non-hazardous	Hazardous		Non-hazardous	
		Daily	Annually	Daily	Annually
	4380.00			400.00	56000.00

Maximum Amount of Waste to be Received Daily					
Liquid (m³)			Solid (tonnes)		
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous		Non-hazardous
			Daily	Annually	Daily
		0.00			1520.00

Maximum Daily Feed Rate (tonnes/m³)			
Hazardous Waste (tonnes)	Non-hazardous Waste (tonnes)	Liquid Industrial Waste (m³)	Other Liquid Waste (m³)
	540.00		0.00

Print Form

Clear Form

Save Form

5.4.4 Landfill Site – Complete this information if this facility operates as a landfill site



Waste Types to be accepted at the Landfill	Design Capacity		
<input type="checkbox"/> Hazardous waste or liquid industrial waste	<input type="radio"/> ≤ 40,000 m ³	<input type="radio"/> > 40,000 m ³ ≤ 3 million m ³	<input type="radio"/> > 3 million m ³
<input type="checkbox"/> Waste is only uncontaminated tree stumps, leaves, branches, concrete and rocks	<input type="radio"/> ≤ 40,000 m ³	<input type="radio"/> > 40,000 m ³ ≤ 3 million m ³	<input type="radio"/> > 3 million m ³
<input type="checkbox"/> Waste other than hazardous waste and liquid industrial waste, other than uncontaminated tree stumps, leaves, branches, concrete and rocks.	<input type="radio"/> ≤ 40,000 m ³	<input type="radio"/> > 40,000 m ³ ≤ 3 million m ³	<input type="radio"/> > 3 million m ³

Change to Operations		
<input type="radio"/> No Change Proposed	<input type="radio"/> Change does not require fundamental design review or hydrogeological assessment	<input type="radio"/> Change requires fundamental design review or hydrogeological assessment

Maximum Landfilling Capacity (m ³)			
Hazardous Waste	Non-hazardous Waste	Liquid Industrial Waste	Other Liquid Waste

Maximum Amount of Waste to be Received							
Hazardous Waste (tonnes)		Non-hazardous Waste (tonnes)		Liquid Industrial Waste (m ³)		Other Liquid Waste (m ³)	
Daily	Annually	Daily	Annually	Daily	Annually	Daily	Annually

Landfill Information				
Area to be Landfilled (hectares)	Total Site Area including Buffer Area (hectares)	Estimated Date of Closure (yyyy/mm/dd)	Population Served	Control Types (select all that apply)
				<input type="checkbox"/> Leachate Collected and Treated Off-site <input type="checkbox"/> Leachate Collected and Treated On-site <input type="checkbox"/> Landfill Gas Collected and Flared <input type="checkbox"/> Landfill Gas Collected for Energy Generation <input type="checkbox"/> Other (describe):

5 Facility Information

Print Form

Clear Form

Save Form

5.5 Waste Management Systems (Except Mobile Waste Processing) ?

IF YOUR APPLICATION IS NOT FOR A WASTE MANAGEMENT SYSTEM PLEASE PROCEED TO SECTION 5.7.

5.5.1 Fleet List (all vehicles and equipment to be used in the operation of the Waste Management System) ?

Separate list attached? Yes No

Year	Make	Model	Vehicle Identification Number (VIN)	Licence Plate Number	Province/State

5.5.2 Vehicle Information ?

Are all the vehicles to be used owned by the applicant? Yes No

If no, please include additional information about ownership arrangements for each vehicle not owned by the applicant.

Has a minimum of \$1,000,000.00 liability insurance been obtained for all vehicles for which it is required? Yes No

Describe any additional insurances that are held (for example, environmental impairment liability insurance).

Print Form

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Save Form

5.5.3 General Waste Management System ?

Type(s) of Waste to be Transported by the General Waste Management System (select all that apply)

Subject:

- Hazardous Waste
- Liquid Industrial Waste

Non-subject:

- Municipal (non-hazardous)
- Other Liquid Waste

Non-subject Categories to be Transported by the General Waste Management System (select all that apply)

- Blue Box Materials
- Domestic Sources
- Commercial
- Non-Hazardous Solid Industrial
- Asbestos Waste in Bulk
- Dewatered Catch Basin Clean-out Material
- Leaf/Yard Waste
- Wood Waste
- Spill Cleanup Material
- Contaminated Soil
- Waste from Food Processing/Preparation Operations
- Tires
- Waste Wash Water
- Processed Organics (not for land application)
- Grease Trap Waste
- Others (specify):

Subject Waste Categories to be Transported by the General Waste Management System

Separate list attached? Yes No

Hazardous Waste / Liquid Industrial Waste								
Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code

- All drivers are/will be trained in accordance with O. Reg. 347 and all pertinent environmental legislation.
- Each vehicle used to transport a specific subject waste class is suitable for that waste transportation in order to protect the health and safety of the public and the natural environment.

Note: For transporters of pathological waste and PCBs (waste classes 243 and 312) Operations Manual and Driver Training Manual must also be attached and Financial Assurance must be provided.

5 Facility Information

Print Form

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General Waste Management System – Disposal Site Information

What is the Final Destination of Waste to be Transported by the General Waste Management System? (select all that apply)

- A disposal site in Ontario approved by the Ministry of the Environment
- Disposal sites outside of Ontario approved by another regulatory agency

List the destination province(s)/state(s):

5.5.4 Soil Conditioner Waste Management System

(includes non-agricultural source material (NASM) that is waste and processed organic waste (biosolids) destined for land application only)

Has the applicant received recommendation from Biosolids Utilization Committee (BUC) for land application of processed organic waste (biosolids) or NASM?

- Yes If yes, please provide a copy of the BUC recommendation.
- No If no, please clarify:

Spreading equipment (land application only)

Separate list attached? Yes No

Equipment Type	Make & Model	Description

5 Facility Information

Print Form

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Save Form

Method of system operation (land application only) 

Estimated quantity to be handled on an annual basis (cubic metres/litres/tonnes):

Please describe the loading procedures:

Please describe the spreading methods:

Please describe the storage facilities (tanks, lagoons, etc.):

Soil Conditioner Waste Management System – Land Application Sites

What is the final destination of waste to be transported by the soil conditioner waste management system? (must include for land application only)

- Non-agricultural land Agricultural land Both agricultural and non-agricultural land

5.5.5 Hauled Sewage (Septage) Waste Management System 

Type(s) of hauled sewage (septage) to be transported

- Portable toilet waste Septic tank waste Holding tank waste Other (specify):

Spreading Equipment (land application only)

Separate list attached? Yes No

Equipment Type	Make & Model	Description

5 Facility Information

Print Form

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Save Form

Does this system include in-transit storage? Yes No 

If yes:

a) What is the duration of storage? Please specify (Maximum period of in-transit storage should not exceed more than two weeks):

b) Is the storage tank a prefabricated tank with the capacity < 100,000 L, designed and constructed in accordance with a Class 5 Sewage System under the Ontario Building Code or CAN/CSA B66-05?

Yes No If no, please provide a copy of the design of the storage tank signed and dated by a professional engineer.

Does this system include in-transit processing? Yes No 

If yes:

a) Location of in-transit processing:

In Vehicle In-storage Tank

b) Describe the method of in-transit processing:

Does this system use barge/boat to transport hauled sewage (septage)? Yes No 

If yes,

a) Has a minimum of \$1,000,000.00 liability insurance been obtained for the barge/boat for which it is required?

Yes No

b) Does the barge/boat have an engine of 10 horsepower (hp) or more, for which a commercial vessel licence is required from Transport Canada?

Yes No If yes, please include a copy of the commercial vessel licence.

Note: For in-transit storage or processing the applicant must include with the application the consent of the landowner, if the landowner is different than the applicant. A financial assurance estimate must be provided by applicants using in-transit storage or using in-transit processing where processing is conducted in the in-transit storage tanks.

5 Facility Information

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Hauled Sewage (Septage) Waste Management System – Land Application Sites N/A

List the Environmental Compliance Approval Number(s) of all disposal site(s) approved by the Ministry of the Environment for land application of hauled sewage in association with this waste management system.

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

Print Form

Clear Form

Save Form

5.6 Waste Management System – Mobile Waste Processing ?

5.6.1 Mobile Waste Management System Process and Equipment Description ?

Type(s) of Waste to be Processed (select all that apply)

Subject:

- Hazardous Waste
- Liquid Industrial Waste

Non-subject:

- Municipal (non-hazardous)
- Other Liquid Waste

Number of Units	Type of Waste to be Processed by the Unit(s)	Financial Assurance (per unit)	Financial Assurance Required
	Non-hazardous Solid Waste	\$5,000	
	Hazardous Waste	\$20,000	
	Liquid Industrial Waste	\$20,000	
	Other Liquid Waste	\$20,000	
	Multiple Types of Waste from the Categories Above	\$20,000	
Total Financial Assurance			\$0

Municipal (non-hazardous) Waste Categories to be Processed (select all that apply)

- Contaminated Soil at Cleanup Site
- Wood Waste
- Construction & Demolition Waste
- Asbestos Waste
- Tires
- Domestic Waste
- Other (specify):

Other Liquid Waste Categories to be Processed (select all that apply)

- Hauled Sewage
- Waste from Food Processing/Preparation Operations
- Processed Organic
- Other (specify):

Hazardous/Liquid Industrial Waste Types to be Processed							
Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code

5 Facility Information

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5.6.2 Equipment Information – Please attach a separate list if more space is required.

Separate list attached? Yes No

Unit No.	Unit Type	Process Description	Equipment List				Equipment Capacity (including unit of measurement)
			Equipment Type	Make	Model	Serial Number	
Unit 1							
Unit 2							
Unit 3							
Unit 4							

5 Facility Information

Print Form

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5.7 Cleanup of Contaminated Sites

IF YOUR APPLICATION IS NOT FOR A CLEANUP OF A CONTAMINATED SITE PLEASE PROCEED TO SECTION 6.

Type of cleanup:

- In-situ
- Ex-situ
- Both

Contaminated media to be treated:

- Groundwater
- Surface water
- Sediment
- Soil

Waste Type:

Subject:

- Hazardous Waste
- Liquid Industrial Waste

Non-subject:

- Municipal (non-hazardous)
- Other Liquid Waste

Type of discharge:

- Air
- Groundwater
- Storm or sanitary
- Surface water
- Noise

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6.1 General — THIS IS A LIST OF SUPPORTING INFORMATION TO THIS APPLICATION AND IS SUBJECT TO THE FIPPA AND EBR. ?

Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
<input checked="" type="checkbox"/> Proof of legal name	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Enhanced EBR description	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Provincial Officer Notice	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Inspection Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Detailed project and process description	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Pre-application Consultation Record	<input type="radio"/> Yes <input checked="" type="radio"/> No	No additional public consultation was undertaken.	<input type="checkbox"/>
Legal Survey(s)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Site Plan(s)	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Scaled area location plan(s) with geo-referencing points identified	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Documentation in support of EBR Exception	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Proof of Compliance with EAA Requirements	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Proof of Consultation/Notification	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Financial Assurance Estimate	<input type="radio"/> Yes <input checked="" type="radio"/> No	No additional FA is required.	<input type="checkbox"/>
<input checked="" type="checkbox"/> Name, address and consent of land/site owner for the installation and operation of the proposed activity or storage location of equipment or vehicle	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Name, address and phone number of the Operating Authority	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of NEPDA Permit	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy/Proof of Municipal Planning Approval (ORMCA, general)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Municipal Zoning Confirmation Letter	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Zoning map	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Conservation Authority Clearance	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Director's approval for Policy 2 Deviation	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Application Fee	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
<input checked="" type="checkbox"/> A copy of this application has been sent to the Ministry Local District Office	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Explanation for confidentiality	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.2 Air

Emission Summary and Dispersion Modelling (ESDM) Report prepared in accordance with s.22 and of O. Reg. 419/05 (including signed checklist – PIBS 5357e)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Electronic copy of the Dispersion Modelling input and output files prepared in accordance with s.26 of O. Reg. 419/05	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Supporting Information for a Maximum Ground Level Concentration Acceptability Request for Compounds with no Ministry POI Limit – Supplement to Application for Approval, EPA S.9 (PIBS 4872)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copies of forms requesting O. Reg. 419/05 instruments and supporting documentation	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.3 Noise and Vibration

Primary Noise Screening	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Secondary Noise Screening	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Abbreviated Acoustic Assessment Report including signed checklist (A-AAR)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Acoustic Assessment Report including signed checklist (AAR) (PIBS 5356e)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Vibration Assessment report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
Noise Abatement Action Plan	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.4 Sewage

<input type="checkbox"/>	Signed Municipal Responsibility Agreement	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
	Detailed description of the proposed activities/works	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Notice of Completion for the Environmental Study Report (ESR)	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/>
	Design Brief	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Preliminary Engineering Report	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/>
	Final Plans	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
	Engineering Drawings and Specifications	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
	Sewage quantity and quality characteristics	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
	Stormwater Management Report	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
	Stormwater Management Plan	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
	Hydrogeological Assessment	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Environmental Impact Analysis	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/>
	Final effluent criteria accepted by regional office of the Ministry	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
Sewage Works Limited Operational Flexibility Requirements			
	1. Engineer's Report	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
	2. Declarations	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
	Pipe Design Data Form	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>
	Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No	<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
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6.5 Waste Disposal Sites

<input checked="" type="checkbox"/> Design and Operations Report	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Stormwater Management Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Hydrogeological Assessment	<input type="radio"/> Yes <input type="radio"/> No		
<input checked="" type="checkbox"/> Assessment of Physical and Water Use Conditions	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Waste Limited Operational Flexibility Requirements			
1. Engineer's Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
2. Declarations	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Copy of notification to adjacent landowners	<input type="radio"/> Yes <input checked="" type="radio"/> No	Not required.	<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.6 Waste Management Systems

Proof of vehicle and/or equipment ownerships	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Complete Fleet List (list of all vehicles, trailers and equipment used)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of the Liability Insurance for all vehicles for which insurance is required	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of BUC recommendation	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of the storage tank design	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of commercial vehicle licence	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Description of the physical location where the vehicles transporting biomwmedical waste are being disinfected	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Drivers Training Manual (for PCB/Biomedical Waste)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> A copy of the applicant's Operation Plan including detailed packaging and biomedical waste handling methods	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Contingency and Emergency Procedures Plan (for PCB/Biomedical Waste/Hauled Sewage (Septage))	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
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✓ 6.7 Mobile Waste Processing

Design and Operations Report – Mobile Waste Processing of General Waste	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Design and Operations Report – Mobile Waste Processing of Liquid Waste	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

✓ 6.8 Cleanup of Contaminated Sites

Design Report for Cleanup of Contaminated Sites	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

✓ 6.9 Other Attachments

Title	Reference	Confidential* (√)
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
Are you attaching an additional list of attachments? <input type="radio"/> Yes <input checked="" type="radio"/> No	If there is not enough space to list all of the attachments included in this application package, please include an additional listing of these attachments.	

*Please note: The collection of personal information in this application is necessary to administer the Ministry's approvals program, which is authorized pursuant to the Environmental Protection Act and the Ontario Water Resources Act. The personal information collected in this application will be used to administer the program, including for the purposes of the Ministry's compliance and enforcement activities under the aforementioned acts, and for the purposes of making information in respect of Environmental Compliance Approvals available to the public with the exception of payment information. Questions about the collection of the information can be directed to a Client Service Representative, Environmental Approvals Access and Service Integration Branch, 2 St. Clair Avenue West, Floor 12A, Toronto Ontario M4V 1L5; Telephone outside Toronto 1-800-461-6290 or in Toronto 416-314-8001 or Fax 416-314-8452.

This page has been intentionally left blank, please proceed to page 45 for Payment Information.

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➔ Payment Information: Application for an Environmental Compliance Approval ?

Please Note:

1. If you are completing this form by hand, you must complete and attach your fee calculations separately. You do not need to include the supplemental fee calculations if you are filling in this form electronically.
2. If you are completing this form electronically, the fees for this application have been calculated based on the information you have provided. The Ministry may require additional information during the review of your application that could impact the total fee required.
3. All fees should be paid in Canadian funds, payable to the *Minister of Finance*, except fees for *Transfer of Review*, which are payable to the local municipality.
4. Credit card payments are accepted for payments under \$10,000 only.
5. If you are paying by certified cheque or money order, please staple your payment to this page.
6. The information collected in this section of the form is considered confidential and will only be used to process your application fee.

Do not include this page in the copies of your application that are being provided to the Local Ministry District Office.

Amount Enclosed

\$ 1,400.00

Method of Payment

- Certified Cheque
 VISA

- Money Order
 MasterCard

- American Express

Credit Card Information (if paying by VISA, MasterCard or American Express)

Name on Card (please print)

Credit Card Number

Expiry Date (mm/yyyy)

Cardholder Signature

Date (yyyy/mm/dd)

*If paying by certified cheque or money order,
please attach it here.*

ontario.ca/environment





APPLICATION FORM

**Environmental Compliance Approval (Waste Disposal Site
Amendment)**

The Regional Municipality of Durham

Environmental Compliance Approval Application

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General Information and Instructions

General Information:

Information requested in this form is collected under the authority of the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and Environmental Bill of Rights (EBR), and will be used to evaluate applications for Environmental Compliance Approvals (ECAs) issued under Part II.1 of the EPA. This application form should not be used for *mobile PCB destruction facilities* and *land application sites of septage and biosolids*.

For all questions related to preparing or submitting this form or about the Ministry's collection of information related to applying for an ECA, contact:

Environmental Approvals Access and Service Integration Branch

2 St. Clair Ave. West, Floor 12A,
Toronto, Ontario M4V 1L5.

Telephone outside Toronto 1-800-461-6290
or in Toronto 416-314-8001.

This office can also provide you with
copies of application forms and supporting
documentation.

Instructions:

1. Applicants are responsible for ensuring that they complete the most recent application form. Application forms and information about the required supporting documentation and technical requirements are available from the **Environmental Approvals Access and Service Integration Branch** (the address and phone number are provided in the General Information on this page). As well, you can get this information from your local District Office of the Ministry of the Environment, and on the Resources section of the Ministry of the Environment website at: www.ene.gov.on.ca/environment/en/resources/index.htm.
2. A complete application consists of:
 - a completed and signed application form;
 - all required supporting documents and technical requirements identified in:
 - i. this form,
 - ii. Ministry guidance,
 - iii. the Applications for Environmental Compliance Approvals regulation, and
 - payment of the application fee (in Canadian funds) by certified cheque or money order made payable to the Minister of Finance, or credit card payment (for payments up to \$10,000). For *Transfer of Review*, make your cheque or money order payable to the appropriate municipality.
3. Submit the complete application as follows:
 - One (1) paper copy (unless your application is a *Transfer of Review*), one (1) electronic copy and the fee to the **Director, Environmental Approvals Access and Service Integration Branch** at the address provided in the General Information on this page.
 - If your application is a *Transfer of Review*, you must submit two (2) copies of the completed application and the fee to the designated municipal authority.
4. You must also send a copy of the application without the fee to the local Ministry District Office that has jurisdiction over the area where the facilities are located. DO NOT send payment to the District Office.
 - To locate the appropriate local Ministry District Office, visit the Ministry of the Environment website at: www.ene.gov.on.ca/environment/en/about/regional_district_offices/index.htm.
5. For Waste Disposal Sites you must also send a copy of the application without the fee to the Clerk's office of the local municipality (both upper and lower tier) in which the facility/proposed facility is located unless the application is for a revocation or an amendment that is environmentally insignificant or the applicant is a

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municipality. DO NOT send any payment information to the municipality.

Information collected by the Ministry of the Environment is subject to the Freedom of Information and Protection of Privacy Act (FIPPA). If you are of the view that any part of application is confidential on the grounds that such information constitutes a trade secret or scientific, technical, commercial, financial or labour relations information, please make this known now. Otherwise, the Ministry may make the information available to the public without further notice to you.

It is an offence under the EPA and OWRA to provide false or misleading information in this application and/or accompanying documents.

The Electronic Form Smart Features

The electronic version of this form incorporates several features to assist you with completing your application.

The electronic form will highlight required information with **red** and **green** indicators. **Red** means that the information is required before the section is complete.

The form will also calculate certain values based on the information you enter and will assist you in ensuring that all required information is included with your application. You can save a copy of this form that includes any information you have entered.

These features are available in Adobe Reader version 8 or above. You can download a copy from the website at: <http://get.adobe.com/reader/otherversions/>.

Smart Features Legend:

These active buttons appear throughout the Application form to provide additional support.

 **Mandatory fields required to be filled in**

 **Mandatory fields completed**

 Click on the question mark icon to receive additional information.

 **Print Form Button** — Prints the entire form.

 **Clear Form Button** — Clears the entire form.

 **Save Form Button** — Saves the entire form.

 **Calculate Button** — Calculates fees.

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Ministry of the Environment
Public Information Centre:
Telephone: 416-325-4000
Toll-free: 1-800-565-4923
E-mail: picemail.moe@ontario.ca
www.Ontario.ca/Environment

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For Office Use Only			
Reference Number	Payment Received \$	Date (yyyy/mm/dd)	Initials

Application Summary

Applicant Name ?

The Regional Municipality of Durham

Project Name ?

Durham York Energy Centre

Project Description Executive Summary ?

The Durham York Energy Centre is currently being constructed on a 12.1 hectare parcel of land located within the Clarington Energy Business Park on the west side of Osbourne Road in the Regional Municipality of Durham. The facility will function to receive and thermally process municipal solid waste generated in the Regions of Durham and York. The energy content in the form of superheated steam will be used to generate electricity and potentially provide district heating. The hours of operation are 24 hours per day, 7 days per week, 365 days per year. The Facility meets all applicable air, noise, waste, and water environmental requirements in the Province of Ontario.

This ECA amendment application has been prepared to add a Bottom Ash Conditioning System as a physical modification of the Bottom Ash Handling System, as set out in the approved Environmental Compliance Approval. The equipment added is designed to provide additional conditioning of bottom ash before removal from the DYEC site to enhance the pozzolanic properties of bottom ash residue. Conditioning is achieved by adding hydrated lime (calcium hydroxide), the same reagent utilized for acid gas removal, from an existing Hydrated Lime Silo. Additional minor clarifications were made to the initial application language concerning ash operations, and to be consistent with the proposed Ash Sampling and Testing Protocol. Physical modifications to the facility are limited to the Bottom Ash Conditioning System.

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Required Information ?

Project Name & Description	Completed (yes or no)
Section 1: Applicant Information	Yes
Section 2: Project Information	Yes
Section 3: Regulatory Requirements	Yes
Section 4: Site Information	Yes
Section 5: Facility Information	Yes
Section 6: Supporting Documentation	Yes
Section 7: Payment Information	No

Fee Summary: ?

Administrative Processing	\$	200.00
Review of EPA s. 9 activities	\$	0.00
Review of EPA s. 27 activities	\$	1,200.00
Review of OWRA s. 53 activities	\$	0.00
Total Fee	\$	1,400.00

Calculate

Application Status Please complete the sections as shown above

The Ministry may request additional fees upon review of this application.

If you are submitting this form in print version only and are not using the smart calculation feature, please attach the fee calculation separately.

Supplemental Application Information

See help text on required information for this section. ?

Construction of the lime feed conditioning equipment is expected to occur concurrently with construction of the EFW facility, 2013 to 2014.

Copies of this application will be distributed to the Regional Municipality of York, the Municipality of Clarington, the York/Durham MOE District Office, and Covanta.

Print Form

Clear Form



1.3 Applicant Mailing Address ?

Same as Applicant Physical Address? Yes No

Civic Address – Street Information (civic numbering and street information includes street number, name, type and direction)

Unit Identifier (suite or unit number)

605 Rossland Road East

Delivery Designator

Delivery Identifier

Postal Station

Municipality/Unorganized Township or Territory

Province/State

Country

Postal Code/ZIP Code

Whitby

Ontario

Canada

L1N 6A3

1.4 Statement of the Applicant ?

I am authorized to prepare and submit this application and to make this certification. I have reviewed the complete application and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The information contained in this application is complete and accurate.
- The Technical Contact(s) identified in this application has/have been authorized to prepare certain technical material, and act on behalf of the applicant to discuss this application with the Ministry of the Environment and to provide additional information about this application to the Ministry on request.
- The information provided to the Technical Contact(s) in relation to this application is complete and accurate.

Name of Signing Authority (please print)

Title

Cliff Curtis

Commissioner of Works

Telephone Number (include area code & ext.)

Fax Number (include area code)

Mobile Number (include area code)

905-668-7711

ext.

3417

E-mail Address

Signature

Date (yyyy/mm/dd)

cliff.curtis@durham.ca

2014/05/23

1.5 Statement of the Municipality N/A ?

I, the undersigned hereby declare on behalf of the Municipality, that the Municipality has no objection to the construction of the works in the Municipality.

Name and Title (please print)

Name of Municipality

Signature

Date (yyyy/mm/dd)

2 Project Information

[Print Form](#)

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2.3 Approval Information ?

Application initiated by:

- Applicant
 S. 20.18 Order (attach copy)
 Condition of existing approval
 Provincial Officer Order (attach copy)
 Inspection Report (attach copy)
 Other (specify):

Current Environmental Compliance Approvals that may be changed or amended by this application: N/A

Separate list attached? Yes No

Environmental Compliance Approval Number	Date of Issuance (yyyy/mm/dd)
Certificate of Approval 7306-8FDKNX	2011/06/28

Environmental Compliance Approval Number	Date of Issuance (yyyy/mm/dd)

Proposed Environmental Compliance Approvals related to this project: N/A

Separate list attached? Yes No

Project type	Ministry Reference Number (if applicable)	Have submitted	Have not submitted
		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>

2.4 Other Approval/Permits for Facility N/A ?

Separate list attached? Yes No

List all other instruments (approvals or permits) issued by the Ministry of the Environment or applied for under the Environmental Protection Act, Environmental Assessment Act, Ontario Water Resources Act and Safe Drinking Water Act, 2002 and any Environmental Activity and Sector Registrations that are relevant to this application.

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

2 Project Information

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2.5 Technical Contacts ?

Technical Contact 1

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact		Company	
Leon Brasowski		Covanta Energy Corporation	
Telephone Number (include area code & ext.)	Mobile Number (include area code)	Fax Number (include area code)	E-mail Address
862-345-5306 ext.			ibrasowski@covanta.com

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information: (includes street number, name, type and direction)		Unit Identifier (suite or unit number)	
445 South Street			
Delivery Designator	Delivery Identifier	Postal Station	
Municipality/Unorganized Township or Territory	Province/State	Country	Postal Code/ZIP Code
Morristown	New Jersey	USA	07960

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature	Date (yyyy/mm/dd)
	2024/5/23

2 Project Information

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Technical Contact 2 ?

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact Company

Telephone Number (include area code & ext.) ext. Mobile Number (include area code) Fax Number (include area code) E-mail Address

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

Delivery Designator Delivery Identifier Postal Station

Municipality/Unorganized Township or Territory Province/State Country Postal Code/ZIP Code

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature Date (yyyy/mm/dd)

2 Project Information

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Technical Contact 3 ?

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact Company

Telephone Number (include area code & ext.) ext. Mobile Number (include area code) Fax Number (include area code) E-mail Address

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

Delivery Designator Delivery Identifier Postal Station

Municipality/Unorganized Township or Territory Province/State Country Postal Code/ZIP Code

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature Date (yyyy/mm/dd)

2 Project Information

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Technical Contact 4 ?

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact Company

Telephone Number (include area code & ext.) ext. Mobile Number (include area code) Fax Number (include area code) E-mail Address

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

Delivery Designator Delivery Identifier Postal Station

Municipality/Unorganized Township or Territory Province/State Country Postal Code/ZIP Code

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature Date (yyyy/mm/dd)

3 Regulatory Requirements

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3.1 Environmental Bill of Rights (EBR) Requirements

Is this a proposal for a prescribed instrument under the EBR? Yes No

If yes, is this proposal exempted from the EBR requirements? Yes No

If yes, please check one of the following (Please provide supporting information.)

- This proposal has been considered in a substantially equivalent process of public participation. (EBR, 1993, s.30.)
- This proposal is for an emergency situation. (EBR, 1993, s. 29.)
- This proposal is for an amendment to or revocation of an existing Environmental Compliance Approval that is not environmentally significant. (EBR, 1993, s. 22 (3).)
- This proposal has been subject to or exempted from EAA Requirements or considered in a decision of a tribunal. (EBR, 1993, s. 32.)

3.2 Environmental Assessment Act (EAA) Requirements

Is the proposed undertaking subject to the requirements of the EAA? Yes No

If yes, please check one of the following:

- The undertaking has fulfilled the requirements of the EAA through an exemption provided under:
 - Section _____ of Ontario Regulation No. _____ or
 - Declaration/Exemption Order Number _____If Regulation, Declaration Order or Exemption Order does not refer directly to this undertaking, please provide supporting documentation to explain why it applies to this facility.
- The proposed undertaking has fulfilled the requirements of the EAA through the completion of a Class EA process:
 - Name of Class EA: _____
 - Schedule/Group/Category (if applicable): _____If applicable, please submit a copy of the proof of completion (for example, Notice of Completion).

Was the undertaking subject of a Part II Order request(s)? Yes No If yes, please submit a copy of the Director's or Minister's decision letter.
- The proposed undertaking has fulfilled all of the requirements for the EAA through:
 - completion of an Environmental Screening Process pursuant to O. Reg. 101/07 of the EAA
 - completion of an Environmental Screening Process pursuant to O. Reg. 116/01 of the EAA

Was the undertaking subject of an elevation request(s)? Yes No If yes, please submit a copy of the Director's decision letter.
If an appeal was made of the Director's decision, please also submit a copy of the Minister's decision letter.

 - completion of an Environmental Screening Process pursuant to O. Reg. 231/08 of the EAA

Was the undertaking subject of an objection(s)? Yes No If yes, please submit a copy of the Minister's decision letter.
- The proposed undertaking has fulfilled the requirements of the EAA through the completion of an individual Environmental Assessment.

Please submit a copy of the signed Notice of Approval.

3 Regulatory Requirements

Print Form

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3.3 Consultation/Notification

Are there any consultation/notification activities that you have undertaken to fulfill requirements by other legislation or through voluntary efforts?

- Yes No

If yes, please:

- 1) describe the consultation/notification activities below; and
- 2) attach documents describing each of these consultation/notification activities, any changes to the project as a result of these activities and any planned consultation/notification activities in the future.

4 Site Information

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4.1 Site Address or Storage Location ?

Will the vehicles or equipment be stored at more than one location? Yes No

(If yes, please enter all vehicle or equipment storage locations below and attach separate list, as necessary.)

Same as Applicant Physical Address? Yes No

Primary Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

1835 Energy Drive	
Additional Civic Addresses Separate list attached? <input type="radio"/> Yes <input checked="" type="radio"/> No	Unit Identifier (suite or unit number)

Primary Survey Address

Lot	Concession	Part	Reference Plan
27	Broken Front	1	40R-26782

Municipality/Unorganized Township or Territory	Upper Tier/District	Province/State	Country	Postal Code/ZIP Code
Municipality of Clarington	Region of Durham	Ontario	Canada	L1E 2R2

Non-address Information (includes any additional information to clarify the physical location)

<input checked="" type="checkbox"/> Same as Applicant Physical Geo Reference? <input type="radio"/> Yes <input checked="" type="radio"/> No ? Geo Reference (required)						
Description of location	Map Datum	Zone	Accuracy Estimate	Geo-Referencing Method	UTM Easting	UTM Northing
Southwest corner of property	NAD83	17	+/- 5 m	Firstbase Map	680425.04	4860195.22
Physical location of front door or main entrance	NAD83	17	+/- 5 m	Firstbase Map	680425.04	4860195.22

4 Site Information

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4.2 Site or Storage Location Information



Site Name

Durham York Energy Centre

Days and Hours of Operation

7 days per week, 24 hours per day

Ministry of the Environment District Office

York-Durham District Office

Is the site (property) that is the subject of this application owned by the applicant?

If no, please include the owner's name, address and a signed document indicating that the applicant has the authority to install and operate the proposed activity, or store vehicles or equipment on the land.

Yes No

Is the applicant the operating authority of the site that is the subject of this application?

If no, please include the operating authority name, address and phone number.

Yes No

Is the site located in an area of development control as defined by the Niagara Escarpment Planning & Development Act (NEPDA)?

If yes, please attach a copy of the NEPDA permit for proposed activity.

Yes No

Is the site within an area covered by the Oak Ridges Moraine Conservation Plan?

If yes, please attach proof of municipal planning approval for the proposed activity/work (for example, zoning by-law, letter from municipality, etc.).

Yes No

4.3 Site Zoning and Classification



Current Land Use

Vacant

Official Plan Designation

Urban System - Employment Area

Current Zoning (Please attach zoning map, if available.)

Energy Park General Industrial

Adjacent Land Use (select all that apply)

- Industrial Commercial Residential
 Agricultural Recreational Other (specify):

Adjacent Land Zoning

Industrial / Agricultural

Does the current zoning permit the proposed activity?

Yes No

Does the applicant have correspondence from the municipality to confirm that the current zoning of the property permits the proposed use?

Yes No If yes, please attach correspondence from the municipality.

Does the official plan designation support the proposed activity?

Yes No N/A

Print Form

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4.4 Point of Entry into Ontario (for waste management system vehicles that are stored at an address outside of Ontario) ?

City in closest proximity to the point of entry	Description of Point of Entry

4.5 Source Protection/Drinking Water Threats (sewage or waste disposal site applications only) ?

Check the source protection area(s) where the activity is/will be located:

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Ausable Bayfield | <input type="checkbox"/> Grand River | <input type="checkbox"/> Raisin Region | <input type="checkbox"/> Lower Thames Valley |
| <input type="checkbox"/> Maitland Valley | <input type="checkbox"/> Kettle Creek | <input type="checkbox"/> South Nation | <input type="checkbox"/> St. Clair Region |
| <input type="checkbox"/> Cataraqui Region | <input type="checkbox"/> Long Point | <input type="checkbox"/> Grey Sauble | <input type="checkbox"/> Upper Thames River |
| <input checked="" type="checkbox"/> Central Lake Ontario | <input type="checkbox"/> Lakehead | <input type="checkbox"/> Northern Bruce Peninsula | <input type="checkbox"/> Crowe Valley |
| <input type="checkbox"/> Credit Valley | <input type="checkbox"/> Mattagami | <input type="checkbox"/> Saugeen Valley | <input type="checkbox"/> Ganaraska |
| <input type="checkbox"/> Toronto and Region | <input type="checkbox"/> Mississippi Valley | <input type="checkbox"/> Sault Ste. Marie | <input type="checkbox"/> Kawartha-Haliburton |
| <input type="checkbox"/> Essex | <input type="checkbox"/> Rideau Valley | <input type="checkbox"/> Lake Simcoe & Couchiching/Black River | <input type="checkbox"/> Lower Trent |
| <input type="checkbox"/> Halton | <input type="checkbox"/> Niagara | <input type="checkbox"/> Nottawasaga Valley | <input type="checkbox"/> Otonabee-Peterborough |
| <input type="checkbox"/> Hamilton | <input type="checkbox"/> North Bay Mattawa | <input type="checkbox"/> Severn Sound | <input type="checkbox"/> Outside a source protection area |
| <input type="checkbox"/> Catfish Creek | <input type="checkbox"/> Quinte | <input type="checkbox"/> Sudbury | |

Is the proposed activity located or planned to be located in a vulnerable area identified in a local assessment report source protection plan under the Clean Water Act, 2006?

- Yes No

If yes, what is/are the vulnerable area(s)/zone(s)?

- Wellhead Protection Areas Surface Water Intake Protection Zones
 Highly Vulnerable Aquifers Significant Groundwater Recharge Areas

Is the activity being applied for identified as a significant drinking water threat in the assessment report for the local source protection area? ?

- Yes No

4 Site Information

Print Form

Clear Form

Save Form

4.6 Receiver of Effluent Discharge (sewage applications only)



Intermediate Receiver Name

Watershed Name

Surface Water Groundwater Other (specify):

Has the facility received local Conservation Authority clearance? (for stormwater management facility discharging to the natural environment)

Yes N/A If yes, please include a copy of the Conservation Authority clearance.

Final Receivers N/A

Will the proposed activity discharge sewage to any of the following critical receivers?

Lake Simcoe Rideau River Detroit River Other (specify):
 Great Lakes Rouge River Bay of Quinte

Is the receiver a Policy 2 receiver? Yes No

Do you have a Policy 2 deviation approval from the directors? Yes No If yes, please attach a copy of the Director's approval.

Print Form

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Save Form

5.1 Air ? IF YOUR APPLICATION DOES NOT HAVE AIR EMISSIONS PLEASE PROCEED TO SECTION 5.2

5.1.1 Summary of Equipment that Discharges Contaminants to the Air ?

(√)	Description	Number of Pieces of Equipment
<input type="checkbox"/>	Combustion equipment that uses natural gas, propane, no. 2 oil, landfill gas or sewage treatment gas for fuel for the purpose of providing comfort heating or emergency power, producing hot water or steam, or heating material in a system that does not discharge to the atmosphere (Total Heat input of all units \leq 50,000,000 kJ/hr)	N/A
<input type="checkbox"/>	Storage tanks	N/A
<input type="checkbox"/>	Welding operations that use a maximum of 10 kilograms of welding rod per hour	N/A
<input type="checkbox"/>	Combustion equipment that uses waste-derived fuel for the purpose of providing comfort heating, burning \leq 15 litres per hour	
<input type="checkbox"/>	Heat cleaning ovens used for parts cleaning and associated parts washers or degreasing equipment, other than solvent degreasing equipment	
<input type="checkbox"/>	Cooling towers	
<input type="checkbox"/>	Equipment used to control emissions of contaminants, other than a fume incinerator	
<input type="checkbox"/>	Laboratory fume hoods	
<input type="checkbox"/>	Paint spray booths and associated equipment that have a design capacity of up to 8 litres per hour of paint	
<input type="checkbox"/>	Grain dryers	
<input type="checkbox"/>	Any other equipment not listed above with a flow rate of less than or equal to 1.5 m ³ per second	
<input type="checkbox"/>	Any other equipment not listed above with a flow rate of greater than 1.5 m ³ per second	
<input type="checkbox"/>	Equipment that is subject to an Environmental Compliance Approval, and from which there is no proposed increase in the discharge of any contaminant that was previously reviewed by the Director.	N/A

5.1.2 Emission Summary and Dispersion Modelling (ESDM) Report ?

Is the review of an existing, approved ESDM required as part of this proposed application? Yes No

If yes, identify the number of emission sources described in the existing ESDM Report that emit contaminants in common with the sources forming the subject of the application (if none, enter zero).

Have all of these emission sources been described in an ESDM Report that was previously reviewed as part of an application for an existing Environmental Compliance Approval? Yes No

[Print Form](#)

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5.1.3 O. Reg. 419/05 Requirements 

Which of the following sections of O. Reg. 419/05 applies to the facility?

s.19 (Schedule 2) s.20 (Schedule 3) Does not apply. Please indicate reason:

Has an instrument under O. Reg. 419/05 been issued? Yes No

If yes, what type(s) of instruments (including any notices, orders or approvals) has (have) been issued? (select all that apply)

- | | |
|---|---|
| <input type="checkbox"/> ss. 4(2) Adjacent Properties | <input type="checkbox"/> ss. 20(4) Speed-up Request |
| <input type="checkbox"/> ss. 7(1) Specified Dispersion Models | <input type="checkbox"/> ss. 20(5) Speed-up Order |
| <input type="checkbox"/> ss. 8(2) Negligible Sources | <input type="checkbox"/> s. 35 Site-specific Standard |
| <input type="checkbox"/> ss. 10(2) Operating Conditions | <input type="checkbox"/> ss. 35(14) Site-specific Standard Order |
| <input type="checkbox"/> ss. 11(2) Refined Emission Rates | <input type="checkbox"/> ss. 39(3) Technical Standard Registration (Industry Standard) |
| <input type="checkbox"/> ss. 13.1 Value of Dispersion Modeling Parameters | <input type="checkbox"/> ss. 39(4) Technical Standard Registration (Equipment Standard) |
| <input type="checkbox"/> ss. 13(1) Meteorological Data | |
| <input type="checkbox"/> ss. 14(6) Area of Modelling Coverage | |
| <input type="checkbox"/> Other (list all that have been issued): | |

Is an instrument under O. Reg. 419/05 being requested as part of this application? Yes No

If yes, what type(s) of notice, order or approval is (are) being requested?

- | | |
|---|---|
| <input type="checkbox"/> ss. 7(1) Specified Dispersion Models | <input type="checkbox"/> ss. 14(6) Area of Modelling Coverage |
| <input type="checkbox"/> ss. 8(2) Negligible Sources | <input type="checkbox"/> ss. 20(4) Speed-up Request |
| <input type="checkbox"/> ss. 10(2) Operating Conditions | <input type="checkbox"/> s. 32 Request for a Site-specific Standard Order |
| <input type="checkbox"/> ss. 11(2) Refined Emission Rates | <input type="checkbox"/> ss. 39(1)(a) Application for Technical Standard Registration (Industry Standard) |
| <input type="checkbox"/> ss. 13(1) Meteorological Data | <input type="checkbox"/> ss. 39(1)(b) Application for Technical Standard Registration (Equipment Standard). |
| <input type="checkbox"/> Other (list all that have been requested): | |

Please attach the form(s) requesting the notice(s) and/or order(s) and any additional supporting information.

Has an s.30 Upper Risk Threshold (Schedule 6) been exceeded? If yes, please include additional supporting information. Yes No

Is the facility located in a multi-tenant building? If yes, additional information may be requested. Yes No

Are all of the contaminants to which the application relates represented in the Ministry of the Environment publication titled "Summary of Standards and Guidelines to support Ontario Regulation 419: Air Pollution – Local Air Quality" or have they been screened out based on the publication titled "Jurisdictional Screening Level (JSL) List, A Screening Tool for Ontario Regulation 419: Air Pollution – Local Air Quality"? (If no, please attach Supporting Information for a Maximum Ground Level Concentration Acceptability Request for Compounds with no Ministry POI Limit – Supplement to Application for Approval, EPA S.9 (PIBS 4872)). Yes No

5 Facility Information

Print Form

Clear Form

Save Form

5.2 Noise

IF YOUR APPLICATION DOES NOT HAVE NOISE EMISSIONS, PLEASE PROCEED TO SECTION 5.3.

5.2.1 Noise Assessment

Have you completed an Acoustic Assessment Report (AAR) or Abbreviated Acoustic Assessment Report (A-AAR)? Yes No

If yes, please indicate the report you have completed:

AAR Please attach the Acoustic Assessment Report.

Does the AAR show that applicable limits are met? Yes No

If no, please attach the Acoustic Assessment Report including the Noise Abatement Action Plan.

A-AAR Please attach the Abbreviated Acoustic Assessment Report.

Does the A-AAR show that applicable limits are met? Yes No

Note that certain conditions must be met before using the A-AAR and that the A-AAR must show that the applicable limits are met otherwise an AAR may be required.

If no, is the application eligible for Primary or Secondary Noise Screening? Yes No

Note that if you are not eligible for either of the screenings, you must submit either an AAR or A-AAR.

If yes, is your proposed activity described with one of the NAICS codes that are eligible for the Primary Noise Screening? Yes No

If yes, is the actual separation distance between the facility and the noise sensitive point of reception (POR) greater than the minimum required separation distance calculated from the Primary Noise Screening? Yes No

If yes, please attach the Primary Noise Screening form and supporting documentation.

Note that if the Primary Noise Screening is not successful then you may attempt to proceed with the secondary noise screening.

If no, does the Secondary Noise Screening report show that the applicable sound level limits are met? Yes No

If yes, please attach the Secondary Noise Screening Report and supporting documentation.

Note that if you cannot demonstrate that the applicable sound level limits are met then you must submit either an AAR or A-AAR.

5 Facility Information

[Print Form](#)

[Clear Form](#)

[Save Form](#)

5.2.2 Equipment Subject to Noise Review ?

(√)	Description	Number of Pieces of Equipment
<input type="checkbox"/>	Arc Furnaces	
<input type="checkbox"/>	Asphalt Plants	
<input type="checkbox"/>	Blow-down Devices	
<input type="checkbox"/>	Co-generation Facilities	
<input type="checkbox"/>	Crushing Operations	
<input type="checkbox"/>	Flares	
<input type="checkbox"/>	Gas Turbines	
<input type="checkbox"/>	Pressure Blowers or Large Induced Draft Fans (flow rate > 47m ³ /second or static pressure > 1.25 kilopascals)	
<input type="checkbox"/>	Any other equipment not listed above that has not previously been reviewed by the Director in connection with an application for an Environmental Compliance Approval with respect to the facility	
<input type="checkbox"/>	Any other equipment not listed above that is identical to equipment for which a noise assessment was previously reviewed by the Director in connection with an application for an Environmental Compliance Approval with respect to the facility	

5 Facility Information

Print Form

Clear Form

Save Form

5.3 Sewage Works

? IF YOUR APPLICATION DOES NOT CONTAIN SEWAGE WORKS PLEASE PROCEED TO SECTION 5.4

5.3.1 Facility Type – Sewage Works

?

Select the type of facility that is the subject of the application (select all that apply).

Sewage Treatment Plant (STP)

Further information:

Primary

Secondary

Tertiary

Receives septage

Constructed/Engineered Wetlands

On-site system

Lagoons (check all that apply below)

Septage

Municipal

Other (specify):

Municipal or private facility

Category: New 1 2 3 4

Please indicate the maximum design capacity of the municipal or private sewage treatment plant:

≤ 4,550 m³/day > 4,550 m³/day

Facility for the treatment of leachate

Category: New 1 2 3 4

Facility for the treatment of industrial process wastewater

Category: New 1 2 3 4

Facility for the disposal of non-contact cooling water

Subsurface disposal

Please indicate the design capacity of the subsurface disposal:

≤ 15 m³/day > 15 m³/day and < 50 m³/day > 50 m³/day

Stormwater Management Facility

Category: New 1 2 3 4

Wet Pond Dry Pond Other (specify):

For the following, you must complete and attach the relevant sections of the pipe data form:

Storm Sewers

Ditches

Combined Sewers

Forcemains

Sanitary Sewers

Pumping Station

Is a Hydrogeological Assessment required? Yes No (If yes, please attach the hydrogeological assessment.)

Is a review of effluent criteria assessment for stormwater management, cooling water or soil remediation facilities required? Yes No

(If yes, please attach the final effluent criteria accepted by the Regional Office of the Ministry.)

Is a review of effluent criteria assessment for municipal or private sewage, industrial process wastewater or leachate treatment plant required? Yes No

(If yes, please attach the final effluent criteria accepted by the Regional Office of the Ministry.)

5 Facility Information

[Print Form](#)

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[Save Form](#)

5.3.2 Servicing ?

The works will provide sewage servicing for (select all that apply):

- Residential
 Subdivision
 Is there a Municipal Responsibility Agreement in place?
 Yes
 No
 N/A
 Condominium
 If yes, please attach a copy of the Municipal Responsibility Agreement.
 Institutional
 Other (specify):

- Commercial
 Hotel, Motel, Inn
 Campground, Park
 Rental Cabins
 Resort
 Shopping Malls
 Other (specify):
 Restaurant
 Highway Service Station/Gas Bars

Industrial Describe:

5.3.3 Sewage Servicing for Waste Disposal/Landfill Sites ?

Does/Will the sewage treatment facility receive waste disposal/landfill site leachate?
 Yes
 No
 If yes, please identify the site(s) below.

Name of Site Contributing Leachate	Environmental Compliance Approval Number	Volume of leachate (m³)
1.		
2.		
3.		
4.		
5.		

5 Facility Information

Print Form

Clear Form

Save Form

5.4 Waste Disposal Site

? IF YOUR APPLICATION IS NOT FOR A WASTE DISPOSAL OR PROCESSING SITE PLEASE PROCEED TO SECTION 5.5

5.4.1 Facility Description – Waste Disposal Site (information on the nature of the proposed business or activity at this site) **?**

Service Area	Total Area of Site (hectares)
Regions of Durham and York	12.10

Monitoring (select all that apply)

Groundwater
 Surface Water
 Landfill Gas
 Leachate
 None
 Other (specify):

Type(s) of waste to be accepted at this site (select all that apply)

Subject:

Hazardous Waste
 Liquid Industrial Waste

Non-subject:

Municipal (non-hazardous)
 Other Liquid Waste

Municipal waste categories to be accepted at this site (select all that apply)

All Categories
 Domestic Sources
 IC&I Sources
 Source Separated Organics
 Tires
 Leaf & Yard Waste
 Contaminated Soil
 Wood Waste
 Blue Box Materials
 Other (specify):

Other liquid waste categories to be accepted at this site (select all that apply)

Processed Organics
 Waste from Food Processing/Preparation Operations
 Hauled Sewage
 Other (specify):

Hazardous Waste / Liquid Industrial Waste								
Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code

5 Facility Information

Print Form

Clear Form

Save Form

5.4.2 Waste Transfer/Processing/Composting – Complete this information if waste transfer and/or processing and/or composting take(s) place at this facility



Waste Types to be Transferred or Processed	Design Capacity
<input type="checkbox"/> Hazardous waste or liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day <input type="radio"/> > 100 tonnes per day
<input type="checkbox"/> Waste other than hazardous waste and liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day <input type="radio"/> > 100 tonnes per day

Change to Operations ?		
<input type="radio"/> No Change Proposed	<input type="radio"/> Change does not require fundamental design review	<input type="radio"/> Change requires fundamental design review

Liquid Waste								
Maximum Storage Capacity (m³)			Maximum Residual for Final Disposal (m³)					
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous		Liquid Industrial		Other Liquid Waste	
			Daily	Annually	Daily	Annually	Daily	Annually

Solid Waste					
Maximum Storage Capacity (tonnes)		Maximum Residual for Final Disposal (tonnes)			
Hazardous	Non-hazardous	Hazardous		Non-hazardous	
		Daily	Annually	Daily	Annually

Maximum Amount of Waste to be Received Daily					
Liquid (m³)			Solid (tonnes)		
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous	Non-hazardous	

5 Facility Information

Print Form

Clear Form

Save Form

5.4.3 Thermal Treatment Facility – Complete this information if thermal treatment takes place at this facility



Waste Type for Thermal Treatment		Design Capacity	
<input type="checkbox"/>	Hazardous waste or liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day	<input type="radio"/> > 100 tonnes per day
<input checked="" type="checkbox"/>	Waste other than hazardous waste and liquid industrial waste	<input checked="" type="radio"/> ≤ 100 tonnes per day	<input checked="" type="radio"/> > 100 tonnes per day

Change to Operations ?

No Change Proposed
 Change does not require fundamental design review
 Change requires fundamental design review

Liquid Waste								
Maximum Storage Capacity (m³)			Maximum Residual for Final Disposal (m³)					
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous		Liquid Industrial		Other Liquid Waste	
			Daily	Annually	Daily	Annually	Daily	Annually
		0.00					0.00	0.00

Solid Waste					
Maximum Storage Capacity (tonnes)		Maximum Residual for Final Disposal (tonnes)			
Hazardous	Non-hazardous	Hazardous		Non-hazardous	
		Daily	Annually	Daily	Annually
	4380.00			400.00	56000.00

Maximum Amount of Waste to be Received Daily					
Liquid (m³)			Solid (tonnes)		
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous	Non-hazardous	
		0.00		1520.00	

Maximum Daily Feed Rate (tonnes/m³)			
Hazardous Waste (tonnes)	Non-hazardous Waste (tonnes)	Liquid Industrial Waste (m³)	Other Liquid Waste (m³)
	540.00		0.00

5 Facility Information

Print Form

Clear Form

Save Form

5.4.4 Landfill Site – Complete this information if this facility operates as a landfill site



Waste Types to be accepted at the Landfill	Design Capacity		
<input type="checkbox"/> Hazardous waste or liquid industrial waste	<input type="radio"/> ≤ 40,000 m ³	<input type="radio"/> > 40,000 m ³ ≤ 3 million m ³	<input type="radio"/> > 3 million m ³
<input type="checkbox"/> Waste is only uncontaminated tree stumps, leaves, branches, concrete and rocks	<input type="radio"/> ≤ 40,000 m ³	<input type="radio"/> > 40,000 m ³ ≤ 3 million m ³	<input type="radio"/> > 3 million m ³
<input type="checkbox"/> Waste other than hazardous waste and liquid industrial waste, other than uncontaminated tree stumps, leaves, branches, concrete and rocks.	<input type="radio"/> ≤ 40,000 m ³	<input type="radio"/> > 40,000 m ³ ≤ 3 million m ³	<input type="radio"/> > 3 million m ³

Change to Operations		
<input type="radio"/> No Change Proposed	<input type="radio"/> Change does not require fundamental design review or hydrogeological assessment	<input type="radio"/> Change requires fundamental design review or hydrogeological assessment

Maximum Landfilling Capacity (m ³)			
Hazardous Waste	Non-hazardous Waste	Liquid Industrial Waste	Other Liquid Waste

Maximum Amount of Waste to be Received							
Hazardous Waste (tonnes)		Non-hazardous Waste (tonnes)		Liquid Industrial Waste (m ³)		Other Liquid Waste (m ³)	
Daily	Annually	Daily	Annually	Daily	Annually	Daily	Annually

Landfill Information				
Area to be Landfilled (hectares)	Total Site Area including Buffer Area (hectares)	Estimated Date of Closure (yyyy/mm/dd)	Population Served	Control Types (select all that apply)
				<input type="checkbox"/> Leachate Collected and Treated Off-site <input type="checkbox"/> Leachate Collected and Treated On-site <input type="checkbox"/> Landfill Gas Collected and Flared <input type="checkbox"/> Landfill Gas Collected for Energy Generation <input type="checkbox"/> Other (describe):

5 Facility Information

Print Form

Clear Form

Save Form

5.5 Waste Management Systems (Except Mobile Waste Processing) ?

IF YOUR APPLICATION IS NOT FOR A WASTE MANAGEMENT SYSTEM PLEASE PROCEED TO SECTION 5.7.

5.5.1 Fleet List (all vehicles and equipment to be used in the operation of the Waste Management System) ?

Separate list attached? Yes No

Year	Make	Model	Vehicle Identification Number (VIN)	Licence Plate Number	Province/State

5.5.2 Vehicle Information ?

Are all the vehicles to be used owned by the applicant? Yes No

If no, please include additional information about ownership arrangements for each vehicle not owned by the applicant.

Has a minimum of \$1,000,000.00 liability insurance been obtained for all vehicles for which it is required? Yes No

Describe any additional insurances that are held (for example, environmental impairment liability insurance).

Print Form

Clear Form

Save Form

5.5.3 General Waste Management System



Type(s) of Waste to be Transported by the General Waste Management System (select all that apply)

Subject:

- Hazardous Waste
- Liquid Industrial Waste

Non-subject:

- Municipal (non-hazardous)
- Other Liquid Waste

Non-subject Categories to be Transported by the General Waste Management System (select all that apply)

- Blue Box Materials
- Domestic Sources
- Commercial
- Non-Hazardous Solid Industrial
- Asbestos Waste in Bulk
- Dewatered Catch Basin Clean-out Material
- Leaf/Yard Waste
- Wood Waste
- Spill Cleanup Material
- Contaminated Soil
- Waste from Food Processing/Preparation Operations
- Tires
- Waste Wash Water
- Processed Organics (not for land application)
- Grease Trap Waste
- Others (specify):

Subject Waste Categories to be Transported by the General Waste Management System

Separate list attached? Yes No

Hazardous Waste / Liquid Industrial Waste								
Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code

- All drivers are/will be trained in accordance with O. Reg. 347 and all pertinent environmental legislation.
- Each vehicle used to transport a specific subject waste class is suitable for that waste transportation in order to protect the health and safety of the public and the natural environment.

Note: For transporters of pathological waste and PCBs (waste classes 243 and 312) Operations Manual and Driver Training Manual must also be attached and Financial Assurance must be provided.

5 Facility Information

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General Waste Management System – Disposal Site Information

What is the Final Destination of Waste to be Transported by the General Waste Management System? (select all that apply)

- A disposal site in Ontario approved by the Ministry of the Environment
- Disposal sites outside of Ontario approved by another regulatory agency

List the destination province(s)/state(s):

5.5.4 Soil Conditioner Waste Management System

(includes non-agricultural source material (NASM) that is waste and processed organic waste (biosolids) destined for land application only)

Has the applicant received recommendation from Biosolids Utilization Committee (BUC) for land application of processed organic waste (biosolids) or NASM?

- Yes If yes, please provide a copy of the BUC recommendation.
- No If no, please clarify:

Spreading equipment (land application only)

Separate list attached? Yes No

Equipment Type	Make & Model	Description

5 Facility Information

Print Form

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Save Form

Method of system operation (land application only)

Estimated quantity to be handled on an annual basis (cubic metres/litres/tonnes):

Please describe the loading procedures:

Please describe the spreading methods:

Please describe the storage facilities (tanks, lagoons, etc.):

Soil Conditioner Waste Management System – Land Application Sites

What is the final destination of waste to be transported by the soil conditioner waste management system? (must include for land application only)

- Non-agricultural land Agricultural land Both agricultural and non-agricultural land

5.5.5 Hauled Sewage (Septage) Waste Management System

Type(s) of hauled sewage (septage) to be transported

- Portable toilet waste Septic tank waste Holding tank waste Other (specify):

Spreading Equipment (land application only)

Separate list attached? Yes No

Equipment Type	Make & Model	Description

5 Facility Information

Print Form

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Does this system include in-transit storage? Yes No 

If yes:

a) What is the duration of storage? Please specify (Maximum period of in-transit storage should not exceed more than two weeks):

b) Is the storage tank a prefabricated tank with the capacity < 100,000 L, designed and constructed in accordance with a Class 5 Sewage System under the Ontario Building Code or CAN/CSA B66-05?

Yes No If no, please provide a copy of the design of the storage tank signed and dated by a professional engineer.

Does this system include in-transit processing? Yes No 

If yes:

a) Location of in-transit processing:

In Vehicle In-storage Tank

b) Describe the method of in-transit processing:

Does this system use barge/boat to transport hauled sewage (septage)? Yes No 

If yes,

a) Has a minimum of \$1,000,000.00 liability insurance been obtained for the barge/boat for which it is required?

Yes No

b) Does the barge/boat have an engine of 10 horsepower (hp) or more, for which a commercial vessel licence is required from Transport Canada?

Yes No If yes, please include a copy of the commercial vessel licence.

Note: For in-transit storage or processing the applicant must include with the application the consent of the landowner, if the landowner is different than the applicant. A financial assurance estimate must be provided by applicants using in-transit storage or using in-transit processing where processing is conducted in the in-transit storage tanks.

5 Facility Information

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Hauled Sewage (Septage) Waste Management System – Land Application Sites N/A 

List the Environmental Compliance Approval Number(s) of all disposal site(s) approved by the Ministry of the Environment for land application of hauled sewage in association with this waste management system.

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

5 Facility Information

[Print Form](#)

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5.6 Waste Management System – Mobile Waste Processing ?

5.6.1 Mobile Waste Management System Process and Equipment Description ?

Type(s) of Waste to be Processed (select all that apply)

Subject:

- Hazardous Waste
- Liquid Industrial Waste

Non-subject:

- Municipal (non-hazardous)
- Other Liquid Waste

Number of Units	Type of Waste to be Processed by the Unit(s)	Financial Assurance (per unit)	Financial Assurance Required
	Non-hazardous Solid Waste	\$5,000	
	Hazardous Waste	\$20,000	
	Liquid Industrial Waste	\$20,000	
	Other Liquid Waste	\$20,000	
	Multiple Types of Waste from the Categories Above	\$20,000	
Total Financial Assurance			\$0

Municipal (non-hazardous) Waste Categories to be Processed (select all that apply)

- Contaminated Soil at Cleanup Site
- Wood Waste
- Construction & Demolition Waste
- Asbestos Waste
- Tires
- Domestic Waste
- Other (specify):

Other Liquid Waste Categories to be Processed (select all that apply)

- Hauled Sewage
- Waste from Food Processing/Preparation Operations
- Processed Organic
- Other (specify):

Hazardous/Liquid Industrial Waste Types to be Processed							
Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code

5 Facility Information

[Print Form](#)

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5.6.2 Equipment Information – Please attach a separate list if more space is required.

Separate list attached? Yes No

Unit No.	Unit Type	Process Description	Equipment List				Equipment Capacity (including unit of measurement)
			Equipment Type	Make	Model	Serial Number	
Unit 1							
Unit 2							
Unit 3							
Unit 4							

5 Facility Information

Print Form

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5.7 Cleanup of Contaminated Sites

IF YOUR APPLICATION IS NOT FOR A CLEANUP OF A CONTAMINATED SITE PLEASE PROCEED TO SECTION 6.

Type of cleanup:

- In-situ
- Ex-situ
- Both

Contaminated media to be treated:

- Groundwater
- Surface water
- Sediment
- Soil

Waste Type:

Subject:

- Hazardous Waste
- Liquid Industrial Waste

Non-subject:

- Municipal (non-hazardous)
- Other Liquid Waste

Type of discharge:

- Air
- Groundwater
- Storm or sanitary
- Surface water
- Noise

6 Supporting Documentation and Technical Requirements

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6.1 General — THIS IS A LIST OF SUPPORTING INFORMATION TO THIS APPLICATION AND IS SUBJECT TO THE FIPPA AND EBR. ?

Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
<input checked="" type="checkbox"/> Proof of legal name	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Enhanced EBR description	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Provincial Officer Notice	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Inspection Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Detailed project and process description	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Pre-application Consultation Record	<input type="radio"/> Yes <input checked="" type="radio"/> No	No additional public consultation was undertaken.	<input type="checkbox"/>
Legal Survey(s)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Site Plan(s)	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Scaled area location plan(s) with geo-referencing points identified	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Documentation in support of EBR Exception	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Proof of Compliance with EAA Requirements	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Proof of Consultation/Notification	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Financial Assurance Estimate	<input type="radio"/> Yes <input checked="" type="radio"/> No	Municipal client, no FA required	<input type="checkbox"/>
Name, address and consent of land/site owner for the installation and operation of the proposed activity or storage location of equipment or vehicle	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Name, address and phone number of the Operating Authority	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of NEPDA Permit	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy/Proof of Municipal Planning Approval (ORMCA, general)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Municipal Zoning Confirmation Letter	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Zoning map	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Conservation Authority Clearance	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Director's approval for Policy 2 Deviation	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Application Fee	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (✓)
<input checked="" type="checkbox"/> A copy of this application has been sent to the Ministry Local District Office	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Explanation for confidentiality	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.2 Air

Emission Summary and Dispersion Modelling (ESDM) Report prepared in accordance with s.22 and of O. Reg. 419/05 (including signed checklist – PIBS 5357e)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Electronic copy of the Dispersion Modelling input and output files prepared in accordance with s.26 of O. Reg. 419/05	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Supporting Information for a Maximum Ground Level Concentration Acceptability Request for Compounds with no Ministry POI Limit – Supplement to Application for Approval, EPA S.9 (PIBS 4872)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copies of forms requesting O. Reg. 419/05 instruments and supporting documentation	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.3 Noise and Vibration

Primary Noise Screening	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Secondary Noise Screening	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Abbreviated Acoustic Assessment Report including signed checklist (A-AAR)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Acoustic Assessment Report including signed checklist (AAR) (PIBS 5356e)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Vibration Assessment report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (✓)
Noise Abatement Action Plan	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

✓ 6.4 Sewage

Signed Municipal Responsibility Agreement	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Detailed description of the proposed activities/works	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
✓ Notice of Completion for the Environmental Study Report (ESR)	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		<input type="checkbox"/>
Design Brief	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
✓ Preliminary Engineering Report	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		<input type="checkbox"/>
Final Plans	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Engineering Drawings and Specifications	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Sewage quantity and quality characteristics	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Stormwater Management Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Stormwater Management Plan	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Hydrogeological Assessment	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
✓ Environmental Impact Analysis	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		<input type="checkbox"/>
Final effluent criteria accepted by regional office of the Ministry	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Sewage Works Limited Operational Flexibility Requirements			
1. Engineer's Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
2. Declarations	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Pipe Design Data Form	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
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6.5 Waste Disposal Sites

<input checked="" type="checkbox"/> Design and Operations Report	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Stormwater Management Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Hydrogeological Assessment	<input type="radio"/> Yes <input type="radio"/> No		
<input checked="" type="checkbox"/> Assessment of Physical and Water Use Conditions	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Waste Limited Operational Flexibility Requirements			
1. Engineer's Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
2. Declarations	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Copy of notification to adjacent landowners	<input type="radio"/> Yes <input checked="" type="radio"/> No	Not required.	<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.6 Waste Management Systems

Proof of vehicle and/or equipment ownerships	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Complete Fleet List (list of all vehicles, trailers and equipment used)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of the Liability Insurance for all vehicles for which insurance is required	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of BUC recommendation	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of the storage tank design	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of commercial vehicle licence	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Description of the physical location where the vehicles transporting biomedical waste are being disinfected	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Drivers Training Manual (for PCB/Biomedical Waste)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> A copy of the applicant's Operation Plan including detailed packaging and biomedical waste handling methods	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Contingency and Emergency Procedures Plan (for PCB/Biomedical Waste/Hauled Sewage (Septage))	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
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6.7 Mobile Waste Processing

Design and Operations Report – Mobile Waste Processing of General Waste	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Design and Operations Report – Mobile Waste Processing of Liquid Waste	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.8 Cleanup of Contaminated Sites

Design Report for Cleanup of Contaminated Sites	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.9 Other Attachments

Title	Reference	Confidential* (√)
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
Are you attaching an additional list of attachments? <input type="radio"/> Yes <input checked="" type="radio"/> No	If there is not enough space to list all of the attachments included in this application package, please include an additional listing of these attachments.	

*Please note: The collection of personal information in this application is necessary to administer the Ministry's approvals program, which is authorized pursuant to the Environmental Protection Act and the Ontario Water Resources Act. The personal information collected in this application will be used to administer the program, including for the purposes of the Ministry's compliance and enforcement activities under the aforementioned acts, and for the purposes of making information in respect of Environmental Compliance Approvals available to the public with the exception of payment information. Questions about the collection of the information can be directed to a Client Service Representative, Environmental Approvals Access and Service Integration Branch, 2 St. Clair Avenue West, Floor 12A, Toronto Ontario M4V 1L5; Telephone outside Toronto 1-800-461-6290 or in Toronto 416-314-8001 or Fax 416-314-8452.

This page has been intentionally left blank, please proceed to page 45 for Payment Information.

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➔ Payment Information: Application for an Environmental Compliance Approval ?

Please Note:

1. If you are completing this form by hand, you must complete and attach your fee calculations separately.
You do not need to include the supplemental fee calculations if you are filling in this form electronically.
2. If you are completing this form electronically, the fees for this application have been calculated based on the information you have provided.
The Ministry may require additional information during the review of your application that could impact the total fee required.
3. All fees should be paid in Canadian funds, payable to the *Minister of Finance*, except fees for *Transfer of Review*, which are payable to the local municipality.
4. Credit card payments are accepted for payments under \$10,000 only.
5. If you are paying by certified cheque or money order, please staple your payment to this page.
6. The information collected in this section of the form is considered confidential and will only be used to process your application fee.

Do not include this page in the copies of your application that are being provided to the Local Ministry District Office.

Amount Enclosed

\$ 1,400.00

Method of Payment

Certified Cheque

VISA

Money Order

MasterCard

American Express

Credit Card Information (if paying by VISA, MasterCard or American Express)

Name on Card (please print)

Credit Card Number

Expiry Date (mm/yyyy)

Cardholder Signature

Date (yyyy/mm/dd)

*If paying by certified cheque or money order,
please attach it here.*

ontario.ca/environment



APPLICATION FORM

**Environmental Compliance Approval (Waste Disposal Site
Amendment)**

The Regional Municipality of York

Environmental Compliance Approval Application

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General Information and Instructions

General Information:

Information requested in this form is collected under the authority of the Environmental Protection Act (EPA), Ontario Water Resources Act (OWRA) and Environmental Bill of Rights (EBR), and will be used to evaluate applications for Environmental Compliance Approvals (ECAs) issued under Part II.1 of the EPA. This application form should not be used for *mobile PCB destruction facilities* and *land application sites of septage and biosolids*.

For all questions related to preparing or submitting this form or about the Ministry's collection of information related to applying for an ECA, contact:

Environmental Approvals Access and Service Integration Branch

2 St. Clair Ave. West, Floor 12A,
Toronto, Ontario M4V 1L5.

Telephone outside Toronto 1-800-461-6290
or in Toronto 416-314-8001.

This office can also provide you with
copies of application forms and supporting
documentation.

Instructions:

1. Applicants are responsible for ensuring that they complete the most recent application form.
Application forms and information about the required supporting documentation and technical requirements are available from the **Environmental Approvals Access and Service Integration Branch** (the address and phone number are provided in the General Information on this page). As well, you can get this information from your local District Office of the Ministry of the Environment, and on the Resources section of the Ministry of the Environment website at: www.ene.gov.on.ca/environment/en/resources/index.htm.
2. A complete application consists of:
 - a completed and signed application form;
 - all required supporting documents and technical requirements identified in:
 - i. this form,
 - ii. Ministry guidance,
 - iii. the Applications for Environmental Compliance Approvals regulation, and
 - payment of the application fee (in Canadian funds) by certified cheque or money order made payable to the Minister of Finance, or credit card payment (for payments up to \$10,000). For *Transfer of Review*, make your cheque or money order payable to the appropriate municipality.

The Ministry may return incomplete applications to the applicant. The Director may require additional information of any application initially accepted as complete.

3. Submit the complete application as follows:
 - One (1) paper copy (unless your application is a *Transfer of Review*), one (1) electronic copy and the fee to the **Director, Environmental Approvals Access and Service Integration Branch** at the address provided in the General Information on this page.
 - If your application is a *Transfer of Review*, you must submit two (2) copies of the completed application and the fee to the designated municipal authority.
4. You must also send a copy of the application without the fee to the local Ministry District Office that has jurisdiction over the area where the facilities are located. DO NOT send payment to the District Office.
 - To locate the appropriate local Ministry District Office, visit the Ministry of the Environment website at: www.ene.gov.on.ca/environment/en/about/regional_district_offices/index.htm.
5. For Waste Disposal Sites you must also send a copy of the application without the fee to the Clerk's office of the local municipality (both upper and lower tier) in which the facility/proposed facility is located unless the application is for a revocation or an amendment that is environmentally insignificant or the applicant is a

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municipality. DO NOT send any payment information to the municipality.

Information collected by the Ministry of the Environment is subject to the Freedom of Information and Protection of Privacy Act (FIPPA). If you are of the view that any part of application is confidential on the grounds that such information constitutes a trade secret or scientific, technical, commercial, financial or labour relations information, please make this known now. Otherwise, the Ministry may make the information available to the public without further notice to you.

It is an offence under the EPA and OWRA to provide false or misleading information in this application and/or accompanying documents.

The Electronic Form Smart Features

The electronic version of this form incorporates several features to assist you with completing your application.

The electronic form will highlight required information with **red** and **green** indicators. **Red** means that the information is required before the section is complete.

The form will also calculate certain values based on the information you enter and will assist you in ensuring that all required information is included with your application. You can save a copy of this form that includes any information you have entered.

These features are available in Adobe Reader version 8 or above. You can download a copy from the website at: <http://get.adobe.com/reader/otherversions/>.

Smart Features Legend:

These active buttons appear throughout the Application form to provide additional support.

 **Mandatory fields required to be filled in**

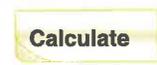
 **Mandatory fields completed**

 Click on the question mark icon to receive additional information.

 **Print Form Button** — Prints the entire form.

 **Clear Form Button** — Clears the entire form.

 **Save Form Button** — Saves the entire form.

 **Calculate Button** — Calculates fees.

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Ministry of the Environment
Public Information Centre:
Telephone: 416-325-4000
Toll-free: 1-800-565-4923
E-mail: picemail.moe@ontario.ca
www.Ontario.ca/Environment

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For Office Use Only			
Reference Number	Payment Received \$	Date (yyyy/mm/dd)	Initials

Application Summary

Applicant Name ?

The Regional Municipality of York

Project Name ?

Durham York Energy Centre

Project Description Executive Summary ?

The Durham York Energy Centre is currently being constructed on a 12.1 hectare parcel of land located within the Clarington Energy Business Park on the west side of Osbourne Road in the Regional Municipality of Durham. The facility will function to receive and thermally process municipal solid waste generated in the Regions of Durham and York. The energy content in the form of superheated steam will be used to generate electricity and potentially provide district heating. The hours of operation are 24 hours per day, 7 days per week, 365 days per year. The Facility meets all applicable air, noise, waste, and water environmental requirements in the Province of Ontario.

This ECA amendment application has been prepared to add a Bottom Ash Conditioning System as a physical modification of the Bottom Ash Handling System, as set out in the approved Environmental Compliance Approval. The equipment added is designed to provide additional conditioning of bottom ash before removal from the DYEC site to enhance the pozzolanic properties of bottom ash residue. Conditioning is achieved by adding hydrated lime (calcium hydroxide), the same reagent utilized for acid gas removal, from an existing Hydrated Lime Silo. Additional minor clarifications were made to the initial application language concerning ash operations, and to be consistent with the proposed Ash Sampling and Testing Protocol. Physical modifications to the facility are limited to the Bottom Ash Conditioning System.

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Required Information ?

Project Name & Description	Completed (yes or no)
Section 1: Applicant Information	Yes
Section 2: Project Information	Yes
Section 3: Regulatory Requirements	Yes
Section 4: Site Information	Yes
Section 5: Facility Information	Yes
Section 6: Supporting Documentation	Yes
Section 7: Payment Information	No

Fee Summary: ?

Administrative Processing	\$	200.00
Review of EPA s. 9 activities	\$	0.00
Review of EPA s. 27 activities	\$	1,200.00
Review of OWRA s. 53 activities	\$	0.00
Total Fee	\$	1,400.00

Calculate

Application Status Please complete the sections as shown above

The Ministry may request additional fees upon review of this application.

If you are submitting this form in print version only and are not using the smart calculation feature, please attach the fee calculation separately.

Supplemental Application Information ?

See help text on required information for this section.

Construction of the lime feed conditioning equipment is expected to occur concurrently with construction of the EFW facility, 2013 to 2014.

Copies of this application will be distributed to the Regional Municipality of Durham, the Municipality of Clarington, the York/Durham MOE District Office, and Covanta.

1 Applicant Information

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✓ 1.1 Applicant Information ?

Applicant Name (legal name of individual or organization as evidenced by legal documents)

The Regional Municipality of York

Business Number

Business Name same as Applicant Name

The Regional Municipality of York

Business Website Address:

Applicant Type:

- Corporation Federal Government
 Individual Municipal Government
 Partnership Provincial Government
 Sole Proprietor Other (describe):

Primary North American Industry Classification System (NAICS) Code ?

:56

Other NAICS codes (select all that apply)

Separate list attached? Yes No

Business Activity Description

Waste treatment and disposal

✓ 1.2 Applicant Physical Address ?

Civic Address – Street Information (includes street number, name, type and direction)

17250 Yonge Street

Unit Identifier (suite or unit number)

Survey Address

Lot Concession Part Reference Plan

Municipality/Unorganized Township or Territory Upper Tier/District

Newmarket

Province/State

York Region

Country

Ontario

Canada

Postal Code/ZIP Code

L3Y 6Z1

Telephone Number (include area code & ext.)

905-830-4444 ext.

Fax Number (include area code)

Mobile Number (include area code)

E-mail Address

environmentalservices@york.ca

Geo Reference (required) ?

Description of location	Map Datum	Zone	Accuracy Estimate	Geo-Referencing Method	UTM Easting	UTM Northing
Southwest corner of property	NAD83	17	+/- 2 m	Aerial Photo	621685.00	4878270.00
Physical location of front door or main entrance						

1 Applicant Information

Print Form

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Save Form

1.3 Applicant Mailing Address ?

Same as Applicant Physical Address? Yes No

Civic Address – Street Information (civic numbering and street information includes street number, name, type and direction)

Unit Identifier (suite or unit number)

17250 Yonge Street			
Delivery Designator	Delivery Identifier	Postal Station	
Municipality/Unorganized Township or Territory	Province/State	Country	Postal Code/ZIP Code
Newmarket	Ontario	Canada	L3Y 6Z1

1.4 Statement of the Applicant ?

I am authorized to prepare and submit this application and to make this certification. I have reviewed the complete application and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The information contained in this application is complete and accurate.
- The Technical Contact(s) identified in this application has/have been authorized to prepare certain technical material, and act on behalf of the applicant to discuss this application with the Ministry of the Environment and to provide additional information about this application to the Ministry on request.
- The information provided to the Technical Contact(s) in relation to this application is complete and accurate.

Name of Signing Authority (please print)

Title

Laura McDowell, P.Eng.		Director, Environmental Promotion & Protection	
Telephone Number (include area code & ext.)	Fax Number (include area code)	Mobile Number (include area code)	
905-830-4444 ext. 75077			
E-mail Address	Signature	Date (yyyy/mm/dd)	
laura.mcdowell@york.ca		2014/05/29	

1.5 Statement of the Municipality N/A ?

I, the undersigned hereby declare on behalf of the Municipality, that the Municipality has no objection to the construction of the works in the Municipality.

Name and Title (please print)

Name of Municipality

Signature

Date (yyyy/mm/dd)

2 Project Information

Print Form

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2.1 Reason for Application ?

- New ECA Amendment to existing ECA Revocation of existing ECA
 Administrative amendment to existing ECA Application for renewal of limited operational flexibility Consolidation of existing ECAs

Are you adding a new project type to your site or a new municipal waste category/class code to your waste management systems or a new sewage facility type? Yes No

Is this for *Transfer of Review*? Yes No

2.2 Project Type (select all that apply) ?

Yes	N/A		Limited Operational Flexibility?	Pilot Project?
<input type="radio"/>	<input checked="" type="radio"/>	Air – Stationary	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Air – Mobile	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Noise	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Vibration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Disposal Site – Landfill site	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Disposal Site – Transfer site	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Disposal Site – Processing site	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Disposal Site – Composting site	N/A	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	Waste Disposal Site – Thermal Treatment site	N/A	<input type="checkbox"/>

Yes	N/A		Limited Operational Flexibility?	Pilot Project?
<input type="radio"/>	<input checked="" type="radio"/>	Sewage – Industrial	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Sewage – Municipal	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Sewage – Private	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Management System – General Waste Management System	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Management System – Hauled Sewage (Septage)	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Management System – Soil Conditioner for transport to a site for Application on Land	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Waste Management System – Mobile Waste Processing	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Cleanup of contaminated sites – Mobile	N/A	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	Cleanup of contaminated sites – Site-specific	N/A	<input type="checkbox"/>

2 Project Information

[Print Form](#)

[Clear Form](#)

[Save Form](#)

2.3 Approval Information ?

Application initiated by:

- Applicant
 S. 20.18 Order (attach copy)
 Condition of existing approval
 Provincial Officer Order (attach copy)
 Inspection Report (attach copy)
 Other (specify):

Current Environmental Compliance Approvals that may be changed or amended by this application: N/A

Separate list attached? Yes No

Environmental Compliance Approval Number	Date of Issuance (yyyy/mm/dd)
Certificate of Approval 7306-8FDKNX	2011/06/28

Environmental Compliance Approval Number	Date of Issuance (yyyy/mm/dd)

Proposed Environmental Compliance Approvals related to this project: N/A

Separate list attached? Yes No

Project type	Ministry Reference Number (if applicable)	Have submitted	Have not submitted
		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>

2.4 Other Approval/Permits for Facility N/A ?

Separate list attached? Yes No

List all other instruments (approvals or permits) issued by the Ministry of the Environment or applied for under the Environmental Protection Act, Environmental Assessment Act, Ontario Water Resources Act and Safe Drinking Water Act, 2002 and any Environmental Activity and Sector Registrations that are relevant to this application.

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

2 Project Information

Print Form

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Save Form

✓ 2.5 Technical Contacts ?

Technical Contact 1

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact				Company	
Leon Brasowski				Covanta Energy Corporation	
Telephone Number (include area code & ext.)	Mobile Number (include area code)	Fax Number (include area code)	E-mail Address		
862-345-5306 ext. <input type="text"/>	<input type="text"/>	<input type="text"/>	ibrasowski@covanta.com		

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information: (includes street number, name, type and direction)			Unit Identifier (suite or unit number)		
445 South Street					
Delivery Designator	Delivery Identifier	Postal Station			
<input type="text"/>	<input type="text"/>	<input type="text"/>			
Municipality/Unorganized Township or Territory	Province/State	Country	Postal Code/ZIP Code		
Morristown	New Jersey	USA	07960		

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature	Date (yyyy/mm/dd)
	2024/5/23

2 Project Information

Print Form

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Technical Contact 2 ?

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact Company

Telephone Number (include area code & ext.) ext. Mobile Number (include area code) Fax Number (include area code) E-mail Address

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

Delivery Designator Delivery Identifier Postal Station

Municipality/Unorganized Township or Territory Province/State Country Postal Code/ZIP Code

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature Date (yyyy/mm/dd)

2 Project Information

Print Form

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Technical Contact 3 ?

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact Company

Telephone Number (include area code & ext.) ext. Mobile Number (include area code) Fax Number (include area code) E-mail Address

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

Delivery Designator Delivery Identifier Postal Station

Municipality/Unorganized Township or Territory Province/State Country Postal Code/ZIP Code

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature Date (yyyy/mm/dd)

2 Project Information

Print Form

Clear Form

Save Form

Technical Contact 4 ?

Area of Responsibility (check all that apply) Air Noise/Vibration Sewage Waste

Name of Technical Contact Company

Telephone Number (include area code & ext.) ext. Mobile Number (include area code) Fax Number (include area code) E-mail Address

Address Information: ?

Same as Applicant Mailing Address? Yes No (If no, please provide technical contact address information below.)

Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

Delivery Designator Delivery Identifier Postal Station

Municipality/Unorganized Township or Territory Province/State Country Postal Code/ZIP Code

I have been authorized by the applicant to prepare the technical materials for the area(s) of responsibility identified above that are included in the application. I have reviewed those technical materials and I have made all inquiries that are necessary to declare to the best of my knowledge, information and belief:

- The technical materials contained in this application in respect of the area(s) of responsibility identified above are complete and accurate.
- I have the relevant education and experience necessary to provide this certification.

Signature Date (yyyy/mm/dd)

Print Form

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Save Form

3.1 Environmental Bill of Rights (EBR) Requirements ?

Is this a proposal for a prescribed instrument under the EBR? Yes No

If yes, is this proposal exempted from the EBR requirements? Yes No

If yes, please check one of the following (Please provide supporting information.)

- This proposal has been considered in a substantially equivalent process of public participation. (EBR, 1993, s.30.)
- This proposal is for an emergency situation. (EBR, 1993, s. 29.)
- This proposal is for an amendment to or revocation of an existing Environmental Compliance Approval that is not environmentally significant. (EBR, 1993, s. 22 (3).)
- This proposal has been subject to or exempted from EAA Requirements or considered in a decision of a tribunal. (EBR, 1993, s. 32.)

3.2 Environmental Assessment Act (EAA) Requirements ?

Is the proposed undertaking subject to the requirements of the EAA? Yes No

If yes, please check one of the following:

- The undertaking has fulfilled the requirements of the EAA through an exemption provided under:
 - Section _____ of Ontario Regulation No. _____ or
 - Declaration/Exemption Order Number _____

If Regulation, Declaration Order or Exemption Order does not refer directly to this undertaking, please provide supporting documentation to explain why it applies to this facility.
- The proposed undertaking has fulfilled the requirements of the EAA through the completion of a Class EA process:

Name of Class EA: _____

Schedule/Group/Category (if applicable): _____

If applicable, please submit a copy of the proof of completion (for example, Notice of Completion).

Was the undertaking subject of a Part II Order request(s)? Yes No If yes, please submit a copy of the Director's or Minister's decision letter.
- The proposed undertaking has fulfilled all of the requirements for the EAA through:
 - completion of an Environmental Screening Process pursuant to O. Reg. 101/07 of the EAA
 - completion of an Environmental Screening Process pursuant to O. Reg. 116/01 of the EAA

Was the undertaking subject of an elevation request(s)? Yes No If yes, please submit a copy of the Director's decision letter.

If an appeal was made of the Director's decision, please also submit a copy of the Minister's decision letter.

 - completion of an Environmental Screening Process pursuant to O. Reg. 231/08 of the EAA

Was the undertaking subject of an objection(s)? Yes No If yes, please submit a copy of the Minister's decision letter.
- The proposed undertaking has fulfilled the requirements of the EAA through the completion of an individual Environmental Assessment.

Please submit a copy of the signed Notice of Approval.

3 Regulatory Requirements

Print Form

Clear Form

Save Form

3.3 Consultation/Notification

Are there any consultation/notification activities that you have undertaken to fulfill requirements by other legislation or through voluntary efforts?

Yes No

If yes, please:

- 1) describe the consultation/notification activities below; and
- 2) attach documents describing each of these consultation/notification activities, any changes to the project as a result of these activities and any planned consultation/notification activities in the future.

4 Site Information

Print Form

Clear Form

Save Form

4.1 Site Address or Storage Location ?

Will the vehicles or equipment be stored at more than one location? Yes No

(If yes, please enter all vehicle or equipment storage locations below and attach separate list, as necessary.)

Same as Applicant Physical Address? Yes No

Primary Civic Address – Street Information (includes street number, name, type and direction) Unit Identifier (suite or unit number)

1835 Energy Drive	
Additional Civic Addresses Separate list attached? <input type="radio"/> Yes <input checked="" type="radio"/> No	Unit Identifier (suite or unit number)

Primary Survey Address

Lot	Concession	Part	Reference Plan
27	Broken Front	1	40R-26782

Municipality/Unorganized Township or Territory	Upper Tier/District	Province/State	Country	Postal Code/ZIP Code
Municipality of Clarington	Region of Durham	Ontario	Canada	L1E 2R2

Non-address Information (includes any additional information to clarify the physical location)

--

Same as Applicant Physical Geo Reference? <input type="radio"/> Yes <input checked="" type="radio"/> No Geo Reference (required) ?						
Description of location	Map Datum	Zone	Accuracy Estimate	Geo-Referencing Method	UTM Easting	UTM Northing
Southwest corner of property	NAD83	17	+/- 5 m	Firstbase Map	680425.04	4860195.22
Physical location of front door or main entrance	NAD83	17	+/- 5 m	Firstbase Map	680425.04	4860195.22

4 Site Information

Print Form

Clear Form

Save Form

4.2 Site or Storage Location Information ?

Site Name: Days and Hours of Operation: Ministry of the Environment District Office:

Is the site (property) that is the subject of this application owned by the applicant?

If no, please include the owner's name, address and a signed document indicating that the applicant has the authority to install and operate the proposed activity, or store vehicles or equipment on the land. Yes No

Is the applicant the operating authority of the site that is the subject of this application?

If no, please include the operating authority name, address and phone number. Yes No

Is the site located in an area of development control as defined by the Niagara Escarpment Planning & Development Act (NEPDA)?

If yes, please attach a copy of the NEPDA permit for proposed activity. Yes No

Is the site within an area covered by the Oak Ridges Moraine Conservation Plan?

If yes, please attach proof of municipal planning approval for the proposed activity/work (for example, zoning by-law, letter from municipality, etc.). Yes No

4.3 Site Zoning and Classification ?

Current Land Use: Official Plan Designation: Current Zoning (Please attach zoning map, if available.):

Adjacent Land Use (select all that apply)

- Industrial Commercial Residential
 Agricultural Recreational Other (specify):

Adjacent Land Zoning

Does the current zoning permit the proposed activity?

Yes No

Does the applicant have correspondence from the municipality to confirm that the current zoning of the property permits the proposed use?

Yes No If yes, please attach correspondence from the municipality.

Does the official plan designation support the proposed activity?

Yes No N/A

4 Site Information

Print Form

Clear Form

Save Form

4.4 Point of Entry into Ontario (for waste management system vehicles that are stored at an address outside of Ontario)



City in closest proximity to the point of entry	Description of Point of Entry

4.5 Source Protection/Drinking Water Threats (sewage or waste disposal site applications only)



Check the source protection area(s) where the activity is/will be located:

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Ausable Bayfield | <input type="checkbox"/> Grand River | <input type="checkbox"/> Raisin Region | <input type="checkbox"/> Lower Thames Valley |
| <input type="checkbox"/> Maitland Valley | <input type="checkbox"/> Kettle Creek | <input type="checkbox"/> South Nation | <input type="checkbox"/> St. Clair Region |
| <input type="checkbox"/> Cataraqui Region | <input type="checkbox"/> Long Point | <input type="checkbox"/> Grey Sauble | <input type="checkbox"/> Upper Thames River |
| <input checked="" type="checkbox"/> Central Lake Ontario | <input type="checkbox"/> Lakehead | <input type="checkbox"/> Northern Bruce Peninsula | <input type="checkbox"/> Crowe Valley |
| <input type="checkbox"/> Credit Valley | <input type="checkbox"/> Mattagami | <input type="checkbox"/> Saugeen Valley | <input type="checkbox"/> Ganaraska |
| <input type="checkbox"/> Toronto and Region | <input type="checkbox"/> Mississippi Valley | <input type="checkbox"/> Sault Ste. Marie | <input type="checkbox"/> Kawartha-Haliburton |
| <input type="checkbox"/> Essex | <input type="checkbox"/> Rideau Valley | <input type="checkbox"/> Lake Simcoe & Couchiching/Black River | <input type="checkbox"/> Lower Trent |
| <input type="checkbox"/> Halton | <input type="checkbox"/> Niagara | <input type="checkbox"/> Nottawasaga Valley | <input type="checkbox"/> Otonabee-Peterborough |
| <input type="checkbox"/> Hamilton | <input type="checkbox"/> North Bay Mattawa | <input type="checkbox"/> Severn Sound | <input type="checkbox"/> Outside a source protection area |
| <input type="checkbox"/> Catfish Creek | <input type="checkbox"/> Quinte | <input type="checkbox"/> Sudbury | |

Is the proposed activity located or planned to be located in a vulnerable area identified in a local assessment report source protection plan under the Clean Water Act, 2006?

- Yes No

If yes, what is/are the vulnerable area(s)/zone(s)?

- Wellhead Protection Areas Surface Water Intake Protection Zones
 Highly Vulnerable Aquifers Significant Groundwater Recharge Areas

Is the activity being applied for identified as a significant drinking water threat in the assessment report for the local source protection area?

- Yes No

4 Site Information

Print Form

Clear Form

Save Form

4.6 Receiver of Effluent Discharge (sewage applications only)



Intermediate Receiver Name

Watershed Name

Surface Water Groundwater Other (specify):

Has the facility received local Conservation Authority clearance? (for stormwater management facility discharging to the natural environment)

Yes N/A If yes, please include a copy of the Conservation Authority clearance.

Final Receivers N/A

Will the proposed activity discharge sewage to any of the following critical receivers?

Lake Simcoe Rideau River Detroit River Other (specify):
 Great Lakes Rouge River Bay of Quinte

Is the receiver a Policy 2 receiver? Yes No

Do you have a Policy 2 deviation approval from the directors? Yes No If yes, please attach a copy of the Director's approval.

Print Form

Clear Form

Save Form

5.1 Air ? IF YOUR APPLICATION DOES NOT HAVE AIR EMISSIONS PLEASE PROCEED TO SECTION 5.2

5.1.1 Summary of Equipment that Discharges Contaminants to the Air ?

(√)	Description	Number of Pieces of Equipment
<input type="checkbox"/>	Combustion equipment that uses natural gas, propane, no. 2 oil, landfill gas or sewage treatment gas for fuel for the purpose of providing comfort heating or emergency power, producing hot water or steam, or heating material in a system that does not discharge to the atmosphere (Total Heat input of all units ≤ 50,000,000 kJ/hr)	N/A
<input type="checkbox"/>	Storage tanks	N/A
<input type="checkbox"/>	Welding operations that use a maximum of 10 kilograms of welding rod per hour	N/A
<input type="checkbox"/>	Combustion equipment that uses waste-derived fuel for the purpose of providing comfort heating, burning ≤ 15 litres per hour	
<input type="checkbox"/>	Heat cleaning ovens used for parts cleaning and associated parts washers or degreasing equipment, other than solvent degreasing equipment	
<input type="checkbox"/>	Cooling towers	
<input type="checkbox"/>	Equipment used to control emissions of contaminants, other than a fume incinerator	
<input type="checkbox"/>	Laboratory fume hoods	
<input type="checkbox"/>	Paint spray booths and associated equipment that have a design capacity of up to 8 litres per hour of paint	
<input type="checkbox"/>	Grain dryers	
<input type="checkbox"/>	Any other equipment not listed above with a flow rate of less than or equal to 1.5 m ³ per second	
<input type="checkbox"/>	Any other equipment not listed above with a flow rate of greater than 1.5 m ³ per second	
<input type="checkbox"/>	Equipment that is subject to an Environmental Compliance Approval, and from which there is no proposed increase in the discharge of any contaminant that was previously reviewed by the Director.	N/A

5.1.2 Emission Summary and Dispersion Modelling (ESDM) Report ?

Is the review of an existing, approved ESDM required as part of this proposed application? Yes No

If yes, identify the number of emission sources described in the existing ESDM Report that emit contaminants in common with the sources forming the subject of the application (if none, enter zero).

Have all of these emission sources been described in an ESDM Report that was previously reviewed as part of an application for an existing Environmental Compliance Approval? Yes No

Print Form

Clear Form

Save Form

5.1.3 O. Reg. 419/05 Requirements ?

Which of the following sections of O. Reg. 419/05 applies to the facility?

s.19 (Schedule 2) s.20 (Schedule 3) Does not apply. Please indicate reason:

Has an instrument under O. Reg. 419/05 been issued? Yes No

If yes, what type(s) of instruments (including any notices, orders or approvals) has (have) been issued? (select all that apply)

- | | |
|---|---|
| <input type="checkbox"/> ss. 4(2) Adjacent Properties | <input type="checkbox"/> ss. 20(4) Speed-up Request |
| <input type="checkbox"/> ss. 7(1) Specified Dispersion Models | <input type="checkbox"/> ss. 20(5) Speed-up Order |
| <input type="checkbox"/> ss. 8(2) Negligible Sources | <input type="checkbox"/> s. 35 Site-specific Standard |
| <input type="checkbox"/> ss. 10(2) Operating Conditions | <input type="checkbox"/> ss. 35(14) Site-specific Standard Order |
| <input type="checkbox"/> ss. 11(2) Refined Emission Rates | <input type="checkbox"/> ss. 39(3) Technical Standard Registration (Industry Standard) |
| <input type="checkbox"/> ss. 13.1 Value of Dispersion Modeling Parameters | <input type="checkbox"/> ss. 39(4) Technical Standard Registration (Equipment Standard) |
| <input type="checkbox"/> ss. 13(1) Meteorological Data | |
| <input type="checkbox"/> ss. 14(6) Area of Modelling Coverage | |
| <input type="checkbox"/> Other (list all that have been issued): | |

Is an instrument under O. Reg. 419/05 being requested as part of this application? Yes No

If yes, what type(s) of notice, order or approval is (are) being requested?

- | | |
|---|---|
| <input type="checkbox"/> ss. 7(1) Specified Dispersion Models | <input type="checkbox"/> ss. 14(6) Area of Modelling Coverage |
| <input type="checkbox"/> ss. 8(2) Negligible Sources | <input type="checkbox"/> ss. 20(4) Speed-up Request |
| <input type="checkbox"/> ss. 10(2) Operating Conditions | <input type="checkbox"/> s. 32 Request for a Site-specific Standard Order |
| <input type="checkbox"/> ss. 11(2) Refined Emission Rates | <input type="checkbox"/> ss. 39(1)(a) Application for Technical Standard Registration (Industry Standard) |
| <input type="checkbox"/> ss. 13(1) Meteorological Data | <input type="checkbox"/> ss. 39(1)(b) Application for Technical Standard Registration (Equipment Standard). |
| <input type="checkbox"/> Other (list all that have been requested): | |

Please attach the form(s) requesting the notice(s) and/or order(s) and any additional supporting information.

Has an s.30 Upper Risk Threshold (Schedule 6) been exceeded? If yes, please include additional supporting information. Yes No

Is the facility located in a multi-tenant building? If yes, additional information may be requested. Yes No

Are all of the contaminants to which the application relates represented in the Ministry of the Environment publication titled "Summary of Standards and Guidelines to support Ontario Regulation 419: Air Pollution – Local Air Quality" or have they been screened out based on the publication titled "Jurisdictional Screening Level (JSL) List, A Screening Tool for Ontario Regulation 419: Air Pollution – Local Air Quality"? (If no, please attach Supporting Information for a Maximum Ground Level Concentration Acceptability Request for Compounds with no Ministry POI Limit – Supplement to Application for Approval, EPA S.9 (PIBS 4872)). Yes No

5 Facility Information

Print Form

Clear Form

Save Form

5.2 Noise

IF YOUR APPLICATION DOES NOT HAVE NOISE EMISSIONS, PLEASE PROCEED TO SECTION 5.3.

5.2.1 Noise Assessment

Have you completed an Acoustic Assessment Report (AAR) or Abbreviated Acoustic Assessment Report (A-AAR)? Yes No

If yes, please indicate the report you have completed:

AAR Please attach the Acoustic Assessment Report.

Does the AAR show that applicable limits are met? Yes No

If no, please attach the Acoustic Assessment Report including the Noise Abatement Action Plan.

A-AAR Please attach the Abbreviated Acoustic Assessment Report.

Does the A-AAR show that applicable limits are met? Yes No

Note that certain conditions must be met before using the A-AAR and that the A-AAR must show that the applicable limits are met otherwise an AAR may be required.

If no, is the application eligible for Primary or Secondary Noise Screening? Yes No

Note that if you are not eligible for either of the screenings, you must submit either an AAR or A-AAR.

If yes, is your proposed activity described with one of the NAICS codes that are eligible for the Primary Noise Screening? Yes No

If yes, is the actual separation distance between the facility and the noise sensitive point of reception (POR) greater than the minimum required separation distance calculated from the Primary Noise Screening? Yes No

If yes, please attach the Primary Noise Screening form and supporting documentation.

Note that if the Primary Noise Screening is not successful then you may attempt to proceed with the secondary noise screening.

If no, does the Secondary Noise Screening report show that the applicable sound level limits are met? Yes No

If yes, please attach the Secondary Noise Screening Report and supporting documentation.

Note that if you cannot demonstrate that the applicable sound level limits are met then you must submit either an AAR or A-AAR.

Print Form

Clear Form

Save Form

5.2.2 Equipment Subject to Noise Review ?

(√)	Description	Number of Pieces of Equipment
<input type="checkbox"/>	Arc Furnaces	
<input type="checkbox"/>	Asphalt Plants	
<input type="checkbox"/>	Blow-down Devices	
<input type="checkbox"/>	Co-generation Facilities	
<input type="checkbox"/>	Crushing Operations	
<input type="checkbox"/>	Flares	
<input type="checkbox"/>	Gas Turbines	
<input type="checkbox"/>	Pressure Blowers or Large Induced Draft Fans (flow rate > 47m ³ /second or static pressure > 1.25 kilopascals)	
<input type="checkbox"/>	Any other equipment not listed above that has not previously been reviewed by the Director in connection with an application for an Environmental Compliance Approval with respect to the facility	
<input type="checkbox"/>	Any other equipment not listed above that is identical to equipment for which a noise assessment was previously reviewed by the Director in connection with an application for an Environmental Compliance Approval with respect to the facility	

5 Facility Information

Print Form

Clear Form

Save Form

5.3 Sewage Works

? IF YOUR APPLICATION DOES NOT CONTAIN SEWAGE WORKS PLEASE PROCEED TO SECTION 5.4

5.3.1 Facility Type – Sewage Works

?

Select the type of facility that is the subject of the application (select all that apply).

Sewage Treatment Plant (STP)

Further information:

- | | |
|--|---|
| <input type="checkbox"/> Primary | <input type="checkbox"/> On-site system |
| <input type="checkbox"/> Secondary | <input type="checkbox"/> Lagoons (check all that apply below) |
| <input type="checkbox"/> Tertiary | <input type="checkbox"/> Septage |
| <input type="checkbox"/> Receives septage | <input type="checkbox"/> Municipal |
| <input type="checkbox"/> Constructed/Engineered Wetlands | <input type="checkbox"/> Other (specify): |

Municipal or private facility

Please indicate the maximum design capacity of the municipal or private sewage treatment plant:

Category: New 1 2 3 4

≤ 4,550 m³/day > 4,550 m³/day

Facility for the treatment of leachate

Category: New 1 2 3 4

Facility for the treatment of industrial process wastewater

Category: New 1 2 3 4

Facility for the disposal of non-contact cooling water

Subsurface disposal

Please indicate the design capacity of the subsurface disposal:

≤ 15 m³/day > 15 m³/day and < 50 m³/day > 50 m³/day

Stormwater Management Facility

Category: New 1 2 3 4

Wet Pond Dry Pond Other (specify):

For the following, you must complete and attach the relevant sections of the pipe data form:

- | | |
|--|--|
| <input type="checkbox"/> Storm Sewers | <input type="checkbox"/> Ditches |
| <input type="checkbox"/> Combined Sewers | <input type="checkbox"/> Forcemains |
| <input type="checkbox"/> Sanitary Sewers | <input type="checkbox"/> Pumping Station |

Is a Hydrogeological Assessment required? Yes No (If yes, please attach the hydrogeological assessment.)

Is a review of effluent criteria assessment for stormwater management, cooling water or soil remediation facilities required? Yes No
(If yes, please attach the final effluent criteria accepted by the Regional Office of the Ministry.)

Is a review of effluent criteria assessment for municipal or private sewage, industrial process wastewater or leachate treatment plant required? Yes No
(If yes, please attach the final effluent criteria accepted by the Regional Office of the Ministry.)

5 Facility Information

Print Form

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5.3.2 Servicing ?

The works will provide sewage servicing for (select all that apply):

- Residential Subdivision **Is there a Municipal Responsibility Agreement in place?** Yes No N/A
 Condominium If yes, please attach a copy of the Municipal Responsibility Agreement.
 Institutional
 Other (specify):

- Commercial Hotel, Motel, Inn Campground, Park Rental Cabins
 Resort Shopping Malls Other (specify):
 Restaurant Highway Service Station/Gas Bars

- Industrial Describe:

5.3.3 Sewage Servicing for Waste Disposal/Landfill Sites ?

Does/Will the sewage treatment facility receive waste disposal/landfill site leachate? Yes No If yes, please identify the site(s) below.

Name of Site Contributing Leachate	Environmental Compliance Approval Number	Volume of leachate (m³)
1.		
2.		
3.		
4.		
5.		

5 Facility Information

Print Form

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5.4.2 Waste Transfer/Processing/Composting – Complete this information if waste transfer and/or processing and/or composting take(s) place at this facility



Waste Types to be Transferred or Processed	Design Capacity
<input type="checkbox"/> Hazardous waste or liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day <input type="radio"/> > 100 tonnes per day
<input type="checkbox"/> Waste other than hazardous waste and liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day <input type="radio"/> > 100 tonnes per day

Change to Operations ?		
<input type="radio"/> No Change Proposed	<input type="radio"/> Change does not require fundamental design review	<input type="radio"/> Change requires fundamental design review

Liquid Waste								
Maximum Storage Capacity (m³)			Maximum Residual for Final Disposal (m³)					
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous		Liquid Industrial		Other Liquid Waste	
			Daily	Annually	Daily	Annually	Daily	Annually

Solid Waste					
Maximum Storage Capacity (tonnes)		Maximum Residual for Final Disposal (tonnes)			
Hazardous	Non-hazardous	Hazardous		Non-hazardous	
		Daily	Annually	Daily	Annually

Maximum Amount of Waste to be Received Daily				
Liquid (m³)			Solid (tonnes)	
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous	Non-hazardous

5 Facility Information

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5.4.3 Thermal Treatment Facility – Complete this information if thermal treatment takes place at this facility ?

Waste Type for Thermal Treatment	Design Capacity
<input type="checkbox"/> Hazardous waste or liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day <input type="radio"/> > 100 tonnes per day
<input checked="" type="checkbox"/> Waste other than hazardous waste and liquid industrial waste	<input type="radio"/> ≤ 100 tonnes per day <input checked="" type="radio"/> > 100 tonnes per day

Change to Operations ?		
<input type="radio"/> No Change Proposed	<input checked="" type="radio"/> Change does not require fundamental design review	<input type="radio"/> Change requires fundamental design review

Liquid Waste								
Maximum Storage Capacity (m³)			Maximum Residual for Final Disposal (m³)					
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous		Liquid Industrial		Other Liquid Waste	
			Daily	Annually	Daily	Annually	Daily	Annually
		0.00					0.00	0.00

Solid Waste					
Maximum Storage Capacity (tonnes)		Maximum Residual for Final Disposal (tonnes)			
Hazardous	Non-hazardous	Hazardous		Non-hazardous	
		Daily	Annually	Daily	Annually
	4380.00			400.00	56000.00

Maximum Amount of Waste to be Received Daily					
Liquid (m³)			Solid (tonnes)		
Hazardous	Liquid Industrial	Other Liquid Waste	Hazardous	Non-hazardous	
				Daily	Annually
		0.00		1520.00	

Maximum Daily Feed Rate (tonnes/m³)			
Hazardous Waste (tonnes)	Non-hazardous Waste (tonnes)	Liquid Industrial Waste (m³)	Other Liquid Waste (m³)
	540.00		0.00

5 Facility Information

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5.4.4 Landfill Site – Complete this information if this facility operates as a landfill site



Waste Types to be accepted at the Landfill	Design Capacity		
<input type="checkbox"/> Hazardous waste or liquid industrial waste	<input type="radio"/> ≤ 40,000 m ³	<input type="radio"/> > 40,000 m ³ ≤ 3 million m ³	<input type="radio"/> > 3 million m ³
<input type="checkbox"/> Waste is only uncontaminated tree stumps, leaves, branches, concrete and rocks	<input type="radio"/> ≤ 40,000 m ³	<input type="radio"/> > 40,000 m ³ ≤ 3 million m ³	<input type="radio"/> > 3 million m ³
<input type="checkbox"/> Waste other than hazardous waste and liquid industrial waste, other than uncontaminated tree stumps, leaves, branches, concrete and rocks.	<input type="radio"/> ≤ 40,000 m ³	<input type="radio"/> > 40,000 m ³ ≤ 3 million m ³	<input type="radio"/> > 3 million m ³

Change to Operations

- No Change Proposed
 Change does not require fundamental design review or hydrogeological assessment
 Change requires fundamental design review or hydrogeological assessment

Maximum Landfilling Capacity (m³)

Hazardous Waste	Non-hazardous Waste	Liquid Industrial Waste	Other Liquid Waste

Maximum Amount of Waste to be Received

Hazardous Waste (tonnes)		Non-hazardous Waste (tonnes)		Liquid Industrial Waste (m ³)		Other Liquid Waste (m ³)	
Daily	Annually	Daily	Annually	Daily	Annually	Daily	Annually

Landfill Information

Area to be Landfilled (hectares)	Total Site Area including Buffer Area (hectares)	Estimated Date of Closure (yyyy/mm/dd)	Population Served	Control Types (select all that apply)	
				<input type="checkbox"/> Leachate Collected and Treated Off-site	<input type="checkbox"/> Leachate Collected and Treated On-site
				<input type="checkbox"/> Landfill Gas Collected and Flared	<input type="checkbox"/> Landfill Gas Collected for Energy Generation
				<input type="checkbox"/> Other (describe):	

5 Facility Information

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5.5 Waste Management Systems (Except Mobile Waste Processing) ?

IF YOUR APPLICATION IS NOT FOR A WASTE MANAGEMENT SYSTEM PLEASE PROCEED TO SECTION 5.7.

5.5.1 Fleet List (all vehicles and equipment to be used in the operation of the Waste Management System) ?

Separate list attached? Yes No

Year	Make	Model	Vehicle Identification Number (VIN)	Licence Plate Number	Province/State

5.5.2 Vehicle Information ?

Are all the vehicles to be used owned by the applicant? Yes No

If no, please include additional information about ownership arrangements for each vehicle not owned by the applicant.

Has a minimum of \$1,000,000.00 liability insurance been obtained for all vehicles for which it is required? Yes No

Describe any additional insurances that are held (for example, environmental impairment liability insurance).

5 Facility Information

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5.5.3 General Waste Management System ?

Type(s) of Waste to be Transported by the General Waste Management System (select all that apply)

Subject:

- Hazardous Waste
- Liquid Industrial Waste

Non-subject:

- Municipal (non-hazardous)
- Other Liquid Waste

Non-subject Categories to be Transported by the General Waste Management System (select all that apply)

- | | | | | |
|--|---|--|--|---|
| <input type="checkbox"/> Blue Box Materials | <input type="checkbox"/> Domestic Sources | <input type="checkbox"/> Commercial | <input type="checkbox"/> Non-Hazardous Solid Industrial | <input type="checkbox"/> Asbestos Waste in Bulk |
| <input type="checkbox"/> Dewatered Catch Basin Clean-out Material | <input type="checkbox"/> Leaf/Yard Waste | <input type="checkbox"/> Wood Waste | <input type="checkbox"/> Spill Cleanup Material | <input type="checkbox"/> Contaminated Soil |
| <input type="checkbox"/> Waste from Food Processing/Preparation Operations | <input type="checkbox"/> Tires | <input type="checkbox"/> Waste Wash Water | <input type="checkbox"/> Processed Organics (not for land application) | <input type="checkbox"/> Grease Trap Waste |
| | | <input type="checkbox"/> Others (specify): | | |

Subject Waste Categories to be Transported by the General Waste Management System

Separate list attached? Yes No

Hazardous Waste / Liquid Industrial Waste								
Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code

- All drivers are/will be trained in accordance with O. Reg. 347 and all pertinent environmental legislation.
- Each vehicle used to transport a specific subject waste class is suitable for that waste transportation in order to protect the health and safety of the public and the natural environment.

Note: For transporters of pathological waste and PCBs (waste classes 243 and 312) Operations Manual and Driver Training Manual must also be attached and Financial Assurance must be provided.

5 Facility Information

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General Waste Management System – Disposal Site Information

What is the Final Destination of Waste to be Transported by the General Waste Management System? (select all that apply)

- A disposal site in Ontario approved by the Ministry of the Environment
- Disposal sites outside of Ontario approved by another regulatory agency

List the destination province(s)/state(s):

5.5.4 Soil Conditioner Waste Management System

(includes non-agricultural source material (NASM) that is waste and processed organic waste (biosolids) destined for land application only)

Has the applicant received recommendation from Biosolids Utilization Committee (BUC) for land application of processed organic waste (biosolids) or NASM?

- Yes If yes, please provide a copy of the BUC recommendation.
- No If no, please clarify:

Spreading equipment (land application only)

Separate list attached? Yes No

Equipment Type	Make & Model	Description

5 Facility Information

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Method of system operation (land application only)

Estimated quantity to be handled on an annual basis (cubic metres/litres/tonnes):

Please describe the loading procedures:

Please describe the spreading methods:

Please describe the storage facilities (tanks, lagoons, etc.):

Soil Conditioner Waste Management System – Land Application Sites

What is the final destination of waste to be transported by the soil conditioner waste management system? (must include for land application only)

- Non-agricultural land Agricultural land Both agricultural and non-agricultural land

5.5.5 Hauled Sewage (Septage) Waste Management System

Type(s) of hauled sewage (septage) to be transported

- Portable toilet waste Septic tank waste Holding tank waste Other (specify):

Spreading Equipment (land application only)

Separate list attached? Yes No

Equipment Type	Make & Model	Description

5 Facility Information

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Does this system include in-transit storage? Yes No 

If yes:

a) What is the duration of storage? Please specify (Maximum period of in-transit storage should not exceed more than two weeks):

b) Is the storage tank a prefabricated tank with the capacity < 100,000 L, designed and constructed in accordance with a Class 5 Sewage System under the Ontario Building Code or CAN/CSA B66-05?

Yes No If no, please provide a copy of the design of the storage tank signed and dated by a professional engineer.

Does this system include in-transit processing? Yes No 

If yes:

a) Location of in-transit processing:

In Vehicle In-storage Tank

b) Describe the method of in-transit processing:

Does this system use barge/boat to transport hauled sewage (septage)? Yes No 

If yes,

a) Has a minimum of \$1,000,000.00 liability insurance been obtained for the barge/boat for which it is required?

Yes No

b) Does the barge/boat have an engine of 10 horsepower (hp) or more, for which a commercial vessel licence is required from Transport Canada?

Yes No If yes, please include a copy of the commercial vessel licence.

Note: For in-transit storage or processing the applicant must include with the application the consent of the landowner, if the landowner is different than the applicant. A financial assurance estimate must be provided by applicants using in-transit storage or using in-transit processing where processing is conducted in the in-transit storage tanks.

5 Facility Information

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Hauled Sewage (Septage) Waste Management System – Land Application Sites N/A

List the Environmental Compliance Approval Number(s) of all disposal site(s) approved by the Ministry of the Environment for land application of hauled sewage in association with this waste management system.

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

Instrument Type	Instrument Number	Approval or Application Date (yyyy/mm/dd)

5 Facility Information

Print Form

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5.6 Waste Management System – Mobile Waste Processing ?

5.6.1 Mobile Waste Management System Process and Equipment Description ?

Type(s) of Waste to be Processed (select all that apply)

Subject:

- Hazardous Waste
- Liquid Industrial Waste

Non-subject:

- Municipal (non-hazardous)
- Other Liquid Waste

Number of Units	Type of Waste to be Processed by the Unit(s)	Financial Assurance (per unit)	Financial Assurance Required
	Non-hazardous Solid Waste	\$5,000	
	Hazardous Waste	\$20,000	
	Liquid Industrial Waste	\$20,000	
	Other Liquid Waste	\$20,000	
	Multiple Types of Waste from the Categories Above	\$20,000	
Total Financial Assurance			\$0

Municipal (non-hazardous) Waste Categories to be Processed (select all that apply)

- Contaminated Soil at Cleanup Site
- Wood Waste
- Construction & Demolition Waste
- Asbestos Waste
- Tires
- Domestic Waste
- Other (specify):

Other Liquid Waste Categories to be Processed (select all that apply)

- Hauled Sewage
- Waste from Food Processing/Preparation Operations
- Processed Organic
- Other (specify):

Hazardous/Liquid Industrial Waste Types to be Processed							
Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code

5 Facility Information

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5.6.2 Equipment Information – Please attach a separate list if more space is required.

Separate list attached? Yes No

Unit No.	Unit Type	Process Description	Equipment List				
			Equipment Type	Make	Model	Serial Number	Equipment Capacity (including unit of measurement)
Unit 1							
Unit 2							
Unit 3							
Unit 4							

5 Facility Information

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5.7 Cleanup of Contaminated Sites

IF YOUR APPLICATION IS NOT FOR A CLEANUP OF A CONTAMINATED SITE PLEASE PROCEED TO SECTION 6.

Type of cleanup:

- In-situ
- Ex-situ
- Both

Contaminated media to be treated:

- Groundwater
- Surface water
- Sediment
- Soil

Waste Type:

Subject:

- Hazardous Waste
- Liquid Industrial Waste

Non-subject:

- Municipal (non-hazardous)
- Other Liquid Waste

Type of discharge:

- Air
- Groundwater
- Storm or sanitary
- Surface water
- Noise

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6.1 General — THIS IS A LIST OF SUPPORTING INFORMATION TO THIS APPLICATION AND IS SUBJECT TO THE FIPPA AND EBR. ?

Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
<input checked="" type="checkbox"/> Proof of legal name	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Enhanced EBR description	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Provincial Officer Notice	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Inspection Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Detailed project and process description	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Pre-application Consultation Record	<input type="radio"/> Yes <input checked="" type="radio"/> No	No additional public consultation was undertaken.	<input type="checkbox"/>
Legal Survey(s)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Site Plan(s)	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Scaled area location plan(s) with geo-referencing points identified	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Documentation in support of EBR Exception	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Proof of Compliance with EAA Requirements	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Proof of Consultation/Notification	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Financial Assurance Estimate	<input type="radio"/> Yes <input checked="" type="radio"/> No	Additional FA not required.	<input type="checkbox"/>
<input checked="" type="checkbox"/> Name, address and consent of land/site owner for the installation and operation of the proposed activity or storage location of equipment or vehicle	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Name, address and phone number of the Operating Authority	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of NEPDA Permit	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy/Proof of Municipal Planning Approval (ORMCA, general)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Municipal Zoning Confirmation Letter	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Zoning map	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Conservation Authority Clearance	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Director's approval for Policy 2 Deviation	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Application Fee	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
<input checked="" type="checkbox"/> A copy of this application has been sent to the Ministry Local District Office	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Explanation for confidentiality	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.2 Air

Emission Summary and Dispersion Modelling (ESDM) Report prepared in accordance with s.22 and of O. Reg. 419/05 (including signed checklist – PIBS 5357e)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Electronic copy of the Dispersion Modelling input and output files prepared in accordance with s.26 of O. Reg. 419/05	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Supporting Information for a Maximum Ground Level Concentration Acceptability Request for Compounds with no Ministry POI Limit – Supplement to Application for Approval, EPA S.9 (PIBS 4872)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copies of forms requesting O. Reg. 419/05 instruments and supporting documentation	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.3 Noise and Vibration

Primary Noise Screening	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Secondary Noise Screening	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Abbreviated Acoustic Assessment Report including signed checklist (A-AAR)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Acoustic Assessment Report including signed checklist (AAR) (PIBS 5356e)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Vibration Assessment report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (✓)
Noise Abatement Action Plan	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

✓ 6.4 Sewage

Signed Municipal Responsibility Agreement	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Detailed description of the proposed activities/works	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
✓ Notice of Completion for the Environmental Study Report (ESR)	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		<input type="checkbox"/>
Design Brief	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
✓ Preliminary Engineering Report	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		<input type="checkbox"/>
Final Plans	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Engineering Drawings and Specifications	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Sewage quantity and quality characteristics	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Stormwater Management Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Stormwater Management Plan	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Hydrogeological Assessment	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
✓ Environmental Impact Analysis	<input checked="" type="radio"/> Yes <input checked="" type="radio"/> No		<input type="checkbox"/>
Final effluent criteria accepted by regional office of the Ministry	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Sewage Works Limited Operational Flexibility Requirements			
1. Engineer's Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
2. Declarations	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Pipe Design Data Form	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (✓)
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6.5 Waste Disposal Sites

<input checked="" type="checkbox"/> Design and Operations Report	<input checked="" type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Stormwater Management Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Hydrogeological Assessment	<input type="radio"/> Yes <input type="radio"/> No		
<input checked="" type="checkbox"/> Assessment of Physical and Water Use Conditions	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Waste Limited Operational Flexibility Requirements			
1. Engineer's Report	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
2. Declarations	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Copy of notification to adjacent landowners	<input type="radio"/> Yes <input checked="" type="radio"/> No	Not required.	<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6.6 Waste Management Systems

Proof of vehicle and/or equipment ownerships	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Complete Fleet List (list of all vehicles, trailers and equipment used)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of the Liability Insurance for all vehicles for which insurance is required	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of BUC recommendation	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of the storage tank design	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Copy of commercial vehicle licence	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Description of the physical location where the vehicles transporting biomedical waste are being disinfected	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Drivers Training Manual (for PCB/Biomedical Waste)	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> A copy of the applicant's Operation Plan including detailed packaging and biomedical waste handling methods	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
<input checked="" type="checkbox"/> Contingency and Emergency Procedures Plan (for PCB/ Biomedical Waste/Hauled Sewage (Septage))	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

6 Supporting Documentation and Technical Requirements

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Attachment	Attached	If no, provide explanation, (include referenced attachment if more space is required for rationale)	Confidential* (√)
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✓ 6.7 Mobile Waste Processing

Design and Operations Report – Mobile Waste Processing of General Waste	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Design and Operations Report – Mobile Waste Processing of Liquid Waste	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

✓ 6.8 Cleanup of Contaminated Sites

Design Report for Cleanup of Contaminated Sites	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>
Other (please describe): <input type="text"/>	<input type="radio"/> Yes <input type="radio"/> No		<input type="checkbox"/>

✓ 6.9 Other Attachments

Title	Reference	Confidential* (√)
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
Are you attaching an additional list of attachments? <input type="radio"/> Yes <input checked="" type="radio"/> No	If there is not enough space to list all of the attachments included in this application package, please include an additional listing of these attachments.	

*Please note: The collection of personal information in this application is necessary to administer the Ministry's approvals program, which is authorized pursuant to the Environmental Protection Act and the Ontario Water Resources Act. The personal information collected in this application will be used to administer the program, including for the purposes of the Ministry's compliance and enforcement activities under the aforementioned acts, and for the purposes of making information in respect of Environmental Compliance Approvals available to the public with the exception of payment information. Questions about the collection of the information can be directed to a Client Service Representative, Environmental Approvals Access and Service Integration Branch, 2 St. Clair Avenue West, Floor 12A, Toronto Ontario M4V 1L5; Telephone outside Toronto 1-800-461-6290 or in Toronto 416-314-8001 or Fax 416-314-8452.

This page has been intentionally left blank, please proceed to page 45 for Payment Information.

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➔ Payment Information: Application for an Environmental Compliance Approval ?

Please Note:

1. If you are completing this form by hand, you must complete and attach your fee calculations separately.
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ATTACHMENT 1

Amended Design and Operations Report

Section 8.0 and Section 10.0



May 2014

DURHAM YORK ENERGY CENTRE

Bottom Ash Conditioning System - Amendment to ECA No. 7306-8FDKNX

Submitted to:

Ontario Ministry of the Environment
Environmental Approvals Branch
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

REPORT

Report Number: 11-1151-0132

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Version Control

Version	Date Issued	Notes
1.0	February 2011	Original Design & Operations Report submitted to the MOE
1.1	May 2014	<ul style="list-style-type: none">■ Amended Chapter 8.0 – Ash Handling and Associated System<ul style="list-style-type: none">■ Clarification of the handling and storage of material in the Residue Storage Building■ Description of the bottom ash handling system, with slight amendments to the equipment used to handle the residue■ New section illustrating the bottom ash conditioning system using hydrated lime■ Amended Chapter 10.0 – Potable, Process and Wastewater<ul style="list-style-type: none">■ Update to the process wastewater system confirming the use of waste water from the settling basin will not impact or reach with the water and other compounds in the Waste Water Settling Basin■ Amended Drawings:<ul style="list-style-type: none">■ M-2602 Revised Water Balance Drawing (which replaces Figure 19 of the original submission)■ New Drawings:<ul style="list-style-type: none">■ M-2530 Bottom Ash Lime Slurry System Piping and Instrumentation Diagram■ 70258-1-ME-GA-SK-001 Hydrated Lime System Equipment Drawing



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FIGURES

Figure 17 – Preliminary Residue Building Layout (Route 1 – Osbourne Road Entrance)

Figure 18 – Preliminary Residue Building Layout (Route 2 – Courtice Road Entrance)

M-2530 – Piping and Instrumentation Diagram, Bottom Ash Lime Slurry System

70258-1-ME-GA-SK-001 – Hydrated Lime System for Boiler Bottom Ash

M-2602 – Water Balance Diagram

Figure 2 – Refuse Firing Diagram

Figure 8 – Building Location Plan (Route 1)



DURHAM YORK ENERGY CENTRE BOTTOM ASH CONDITIONING SYSTEM ECA AMENDMENT

Figure 9 – Building Location Plan (Route 2)

Figure 20 – Settling Basin Schematic



1.0 INTRODUCTION

On June 28, 2011, the Durham York Energy Centre (DYEC) obtained a multimedia Certificate of Approval from the Ministry of the Environment (MOE), now referenced as Environmental Compliance Approval (ECA) No. **7306-8FDKNX**. This approval was based upon the application for a Certificate of Approval for a Waste Disposal Site, originally submitted to the MOE on March 2, 2011. The specifications identified at that time did not include a bottom ash conditioning system. This document presents a technical amendment to the ECA to include a bottom ash conditioning system. Inclusion of this system does not impact or change the processing capability of the DYEC to combust waste in accordance with the ECA as issued.

As such, **Section 8.0 – Ash Handling and Associated System** of the approved Design and Operations Report, submitted to the MOE in March 2011, has been amended. Additionally, considerations have been made to the wastewater train as a result of lime conditioning of the bottom ash. **Section 10.0 – Potable, Process and Wastewater** of the approved Design and Operations Report has been amended to address these considerations.



8.0 ASH HANDLING AND ASSOCIATED SYSTEM

Ash management and storage occurs in the fully enclosed residue building. All residue mixing and/or handling areas are fully enclosed, well ventilated and sufficiently protected from extreme weather conditions (e.g., freezing conditions, etc.). In addition, all areas are designed to facilitate cleanup and good housekeeping. In accordance with Best Management Practices, the residue building is periodically washed down. The floor is sloped toward the residue piles which absorbs any wash-down water. All conveyors handling residue that are located outside are fully enclosed.

The residue storage building is not connected to any other structure to prevent dust from infiltrating other parts of the Facility. To minimize any dust escaping to the environment during the conveying, separating, and truck loading process, the residue building is totally enclosed and has a filtered ventilation system. The ventilation system also draws air from the grizzly area and along the enclosed conveyor gallery.

Residue and metals are deposited and temporarily stored in the fully enclosed residue building to await transport to an appropriate landfill or recycling centre. Each residue stream has dedicated bunker(s) for storage of seven days (with the exception of conditioned fly ash which has storage capacity for 36.5 days) of MCR Facility operations based on initial two unit operations and storage of ash stacked by front end loaders in bunkers with a 45° angle of repose.

Residue containers or trucks are also loaded in the fully enclosed residue storage building. Residue containers are enclosed so as not to present a hazard to either plant personnel or the general public while residue is being loaded and transported to the landfill. In general, all residue loading and unloading systems are designed to be dust free through the following procedures:

- Residue is loaded inside the building with the doors closed;
- The building is fully ventilated to a dust collection system; and
- The ash has a typical moisture content of 15 to 25% thus reducing potential for dust.

No visible emission of dust from any doorway, window, vent, louver or other opening is allowed under normal operating conditions.

8.1 Residue Building

The Facility's bottom and fly ash handling and associated systems are sized for a processing capability of the expanded Facility. Conveyors are used inside of the buildings to transport residue from each unit to the residue building.

Only a single train of bottom ash equipment is provided. The bottom ash will be transported via front end loader if a system component must be taken out of service (refer to Section 8.2).

The fly ash handling system will separately collect air pollution control residue (fly ash and spent salts of reaction) and boiler fly ash. The fly ash will be mixed with Portland cement, pozzolan and water for micro encapsulation (chelation) prior to truck loading and subsequent transportation (refer to Section 8.3).



Residue will be stored in bunkers located in the residue building. The storage area will be divided into eleven compartments with inside dimensions summarized Table 14. Design dimensions are based on Maximum Continuous Rating (MCR). Refer to Figures 17 and 18 for the preliminary residue storage building layout.

The fly ash storage capacity is of 36.5 days at normal throughput rates, whereas bottom ash storage capacities are of seven days at normal throughput rates. Both ferrous and non-ferrous metals storage capacities are seven days at normal throughput rates. (Capacities are based upon initial two unit operations).

The residue building will be fully enclosed and equipped with a filtered ventilation system for dust control.

Table 14: Storage area within the Residue Building

Compartment	Quantity	Dimensions
Building Size	-	41.5 X 24.8 m
Ferrous metal bunker ¹	1	7.0 X 4.6 m
Non-Ferrous metal Bunker	1	3.1 X 4.6 m
Residue Bunker	2	7.0 X 10.4 m
Conditioned Fly ash Bunker	7	6.95 X 4.6 m

¹ Ferrous metals bunker will also accommodate ferrous from the grizzly overs

The design density of ash that will be used for sizing is provided is as follows:

- Bottom Ash Bays – normal mass rate with 1280 kg/m³ density
- Conditioned Fly Ash Bay – normal mass rate with 1300 kg/m³ density
- Ferrous Metals Bay – normal mass rate with 720 kg/m³ density
- Non-Ferrous Metals Bay – normal mass rate with 1200 kg/m³ density

8.2 Bottom Ash

The bottom ash handling system is sized such that items able to pass through the refuse feed chute will be able to be passed by the bottom ash handling system. The bulk residue from the boiler grate is discharged into a water-filled ash discharger. The ash dischargers, one per boiler, feed the ash onto a main vibrating conveyor with integral grizzly scalper (AH-CV-008), which runs across the boiler building. The grizzly scalper, located at the end of the vibrating conveyor, then extracts pieces larger than 200 mm from the main residue stream. Oversized pieces are transported to the residue building via front end loader. Undersized pieces are fed onto an inclined belt conveyor (AH-CV-009) for transport to the residue building where they are subjected to magnetic separation of ferrous material by a magnetic drum separator (AH-CV-014) followed by separation of nonferrous metals via an eddy current magnetic separator (AH-CV-013).

The vibrating pan and belt conveyors used will be heavy duty construction, sized to handle the type of residue typical of solid waste.



Prior to deposition into dedicated material storage bunkers, vibrating screens may be or may not be used for both separated ferrous and non-ferrous materials to help minimize the amount of ash residue carried with the respective recovered metals. Depending on the physical characteristics of generated ash residue, the screens may be blanked off to ensure efficient operations. All bottom ash residue falls into one of two storage bunkers. Recovered ferrous metal drops to a metal storage bunker, and recovered non-ferrous material falls into a non-ferrous storage bunker.

Residue and metals from the bottom ash are deposited and temporarily stored in the fully enclosed residue building to await transport to an appropriate landfill or recycling centre. Each bottom ash residue stream has dedicated bunker(s) for storage of up to seven days. The bottom ash will be transported off site in covered transfer trailers to an appropriately licensed disposal facility. Bottom ash residue trucks will drive right into the Residue Building to be loaded. All loading happens within the residue building with the doors closed.

In accordance with Regulation 347, incinerator ash (bottom ash), as defined, resulting from the incineration of waste that is neither hazardous waste nor liquid industrial waste is not a hazardous waste and may be disposed of at a site that is approved to receive solid non-hazardous waste. The bottom ash may be used as daily cover material at a landfill and the Covanta Research and Development group are continually investigating new and more beneficial uses for this material.

8.2.1 Bottom Ash Conditioning System

The DYEC Bottom Ash Handling System serves several purposes in the Energy from Waste thermal treatment process. The Bottom Ash Handling System receives and transports water-quenched bottom ash from the ash discharger to the Residue Storage Building where ferrous and non-ferrous metals are separated from the bottom ash residue stream, as described in Section 8.2. The Residue Storage Building is the temporary storage destination for all bottom ash residues and separated metals before subsequent off-site shipment. Covanta is proposing to add equipment for further conditioning of bottom ash, and will operate this new system as deemed necessary, in addition to operations described above and in the original CofA application. Hydrated lime (calcium hydroxide) conditioning enhances pozzolanic properties of the bottom ash residue. The existing Hydrated Lime Silo currently only supplies hydrated lime to the recirculating scrubber and fabric filter of the air pollution control (APC) system. Thus, the extent of the physical modification proposed is limited to the inclusion of a hydrated lime delivery system between the existing Hydrated Lime Silo to each of the two existing water filled boiler ash dischargers. Hydrated lime utilized for bottom ash conditioning is the same material utilized by the air pollution control equipment for acid gas removal.

Bottom ash residue as generated by the Energy from Waste thermal treatment process is collected in two water filled boiler ash dischargers, one per boiler. The proposed Bottom Ash Conditioning System will receive hydrated lime from an existing pneumatic feed connection on the existing Hydrated Lime Silo, condition the lime to a slurry with settling basin water and deliver the lime slurry to each boiler ash discharger. The Bottom Ash Conditioning System is designed to reliably accept and deliver 7.5 kg of dry hydrated lime per tonne of waste at the Maximum Continuous Rating (MCR), 218 tonnes per day per unit with a calorific value of 13 MJ/kg to the boiler ash dischargers.

More specifically, the Bottom Ash Conditioning System receives hydrated lime from a loss-in weight feeder with pneumatic blower and eductor (existing in the current ECA design) and controlled by the facility's distributed



control system (DCS). Dry unconditioned hydrated lime is pneumatically conveyed into a new receiver mounted on the lime slurry skid above the lime slurry tank based upon a signal from the existing hydrated lime feed system (on the DCS). The motive air will be vented through a filter from the receiver back to the APC duct work. A high level alarm alerts the operator if the receiver is not discharging and stops the feed of dry hydrated lime to the receiver.

A rotary valve will be used as an air lock to discharge the feed of hydrated lime from the receiver into a slurry mix tank. The slurry mix tank will be vented back to the APC duct work. The tank will also have a level transmitter and water manifold attached to allow for automatic refill of the slurry mix tank on a batch basis. Hydrated lime and water are proportionally added until the reset high level in the slurry mixing tank is reached. Once mixed, slurry is continually recirculated in a loop back to the mixing tank via skid mounted centrifugal pumps. A slip stream to each boiler is pulled off the recirculation loop to feed each boiler. The slip stream is controlled by a DCS controlled on/off valve and a v-port ball valve for metering.

Further system information is provided as part of the attached Bottom Ash Lime Slurry System Piping and Instrumentation Diagram (M-2530), the equipment supplier drawing STT Environ Group, dwg. No 70258-1-ME-GA-SK-001 and the revised Water Balance Drawing M-2602 which replaces the previously provided Figure 19. The water filled boiler ash dischargers will continue to deliver bottom ash to the main vibrating conveyor (AH-CV-007). No other physical modifications to the bottom ash handling system are proposed.

8.2.2 Bottom Ash Conditioning System Design Considerations

The bottom ash conditioning system will operate throughout the range of waste processed by the DYEC. The DYEC will process waste at variable rates, dependent on a number of conditions; however the range of refuse processing rates per boiler are between 143.9 tonnes per day to 270.44 tonnes per day, as identified by Figure 2 – Refuse Firing Diagram. The hydrated lime addition rate will be manually adjusted by controlling the amount of lime slurry fed to the ash discharger.

Hydrated lime will be routed from the lime silo located within the Air Pollution Control (APC) area to both ash dischargers, all located within the boiler building.

The existing hydrated lime silo was designed with four hoppers, one for each of the APC systems and two spares. One of the spare hoppers is equipped with a pneumatic conveying system that will be utilized as a back up to the APC system lime delivery conveyors and will primarily utilized for the bottom ash conditioning system.

The flow of lime to the boiler no. 2 ash discharger will be capable of handling the maximum design rate of lime to both boilers. The system shall have a turn down capability of at least 10:1.

In conformance with DYEC water reuse practices, settling basin water currently used to maintain the water level in the boiler ash discharger will also be utilized by the Bottom Ash Conditioning System. Settling basin water directly piped to the ash discharger will be reduced by the same amount of settling basin water used to condition the hydrated lime fed to the ash discharger. Thus, no net change in the overall facility water balance is affected by the inclusion of the bottom ash conditioning system. Wastewater treatment considerations are addressed in Section 10.0.



8.3 Fly Ash

In accordance with Regulation 347, fly ash will be collected and stabilized separately from bottom ash.

The fly ash handling system transports fly ash from the scrubber hopper, the baghouse hoppers, and the economizer and superheater hoppers to the residue building. Transportation of the fly ash from the various hoppers shall be via a series of horizontal and inclined screw conveyors. A separate fly ash handling system is required for each combustion unit, although main transport conveyors will be common. The screw conveyors will be dust-tight to prevent leakage of fly ash. Only enclosed screw conveyors will be utilized in the fly ash handling system. Drag chains were deemed not to be required due to final plant configuration.

Facility design is based on conditioning of fly ash with pozzolan and cement. Once in the residue building, the fly ash conveyors deposit the fly ash into one of two surge bins. The surge bins allow for fluctuations in the fly ash transport system and consistent fly ash conditioning. The surge bins are designed to hold 2 hours of fly ash generated at the expanded Facility rate.

8.3.1 Fly Ash Conditioning System

The primary purpose of the fly ash conditioning system is to adequately mix the fly ash with water, pozzolan and Portland cement and deposit it directly to a fly ash bunker in the residue building. Two redundant fly ash conditioning systems will be installed, each sized for the expanded Facility. From the surge bins, the fly ash is fed to the conditioners via rotary valves, and combined with Portland cement, pozzolan and water at appropriate rates. The properly mixed ash is then discharged into the first fly ash bay. The material will be stored in the residue building for a period necessary to obtain proper stabilization which is not expected to exceed 21 days, as determined by the results of testing conducted pursuant to the ash sampling and testing protocol.

The treated fly ash from the Facility will be tested in accordance with the provisions of Regulation 347 (Toxicity Characteristic Leaching Procedure) to confirm that it is non-hazardous. Refer to Appendix D for preliminary SOPs pertaining to conditioned fly ash characterization and testing. This includes a protocol for sampling (frequency and methodology) and analysis. More detailed SOPs for conditioned fly ash characterization will be developed prior to commencement of operations at the Facility, as required.

Preliminary mass flow rates of Portland cement and pozzolan are shown in Table 15.

Table 15: Preliminary Mass flow rates of Portland cement and Pozzolan

Portland Cement	90 kg/hr
Pozzolan	95 kg/hr

8.4 Metals Recovery

After the bottom ash has been screened by the grizzly, the smaller residue that has been separated out will be conveyed to the residue building where it will be screened for both ferrous and non-ferrous metals.



Materials recovered at the Facility will be sold to the marketplace as recovered recyclable materials through contracts established once the Facility is under construction. Sorted metals will also be stored in bins located in the residue building. Both ferrous and non-ferrous metals storage capacities are 7 days at normal throughput rates at the initial two unit operations.

8.4.1 Ferrous Recovery

The ferrous recovery system will be designed to remove 80 % of ferrous metals. The system will consist of the following:

- Rotary drum magnet located above the feeder conveyor to recover the magnetic ferrous material;
- Vibrating screen (if utilized) to agitate and remove loose dirt and scale;
- The vibratory screen follows the magnet to ensure that recovered ferrous is of good quality; and
- All necessary chute work and product distribution conveyors.

8.4.2 Non-Ferrous Metal Recovery

A non-ferrous metal recovery system is designed to remove 60 % of the non-ferrous metals that are in the bottom ash stream.

- The system consists of the following equipment:
- Vibratory screen (if utilized) to separate the residue into two streams;
- A vibratory feeder to ensure an even and uniform flow of residue onto the eddy current separator;
- An eddy current separator; and
- All necessary chute work and associated diverter gates.

Non-ferrous and ferrous metals recovered at the Facility will be sold to the marketplace.

8.5 Reagent Storage

The following reagents will be stored at the Facility:

- Carbon used for dry recirculation APC system;
- Lime hydrate used for dry recirculation APC system and for bottom ash conditioning;
- Pozzolan used for fly ash conditioning;
- Cement used for fly ash conditioning; and
- Ammonia used for SNCR system.



Refer to Figures 8 and 9 for the approximate locations of the reagents stored at the Facility.

To control emissions to the atmosphere during the transfer of reagents from trucks into storage units at the Facility, carbon, pozzolan, cement, and lime will have a bin-vent type dust collector. Ammonia will vent back into the truck. In addition, the ammonia tank will be dyked to contain any potential spillage and any spillage from the dry reagents will be clean-up.

Silos will be designed to prevent bridging and rat-holing of the reagent for consistent operation.

Storage silos for dry material will be designed such that a delivery truck mounted blower will be capable of unloading the reagent directly into the silo by means of a positive pressure conveying system through a fill pipe to the top of the silo. The conveying air will be exhausted from the bin through a silo vent type dust collector. The dust collector will be provided complete with an exhaust fan, sized for approximately 17.4 Nm³/min, a differential pressure gauge and switch, and a pulse-jet type of dust collector system. The maximum air-to-cloth ratio will be approximately 1 m/min.

8.5.1 Carbon Storage

Activated carbon will be stored in a silo. A pneumatic feed system injecting activated carbon directly into the flue gas duct-work, downstream of the economizer will be fed from a common activated carbon storage silo.

The silo will be located adjacent to the APC area and will be sized for 1 ½ truck loads, approximately 85 m³. The silo will be able to store enough carbon for approximately 84 days of use for the initial Facility.

A truck fill panel, fill pipe and vent filter will be provided to convey carbon from the bulk delivery truck to the silo using the truck's conveying blower. Self-unloading carbon truck deliveries average approximately 20 tonnes per delivery. During filling, the conveying air will be exhausted from the silo through a silo vent type dust collector. The truck unloading operation is expected to take between 2 and 3 hours to complete.

8.5.2 Lime Storage

The storage silo size for the lime has an approximate volume of 85 m³, and will store approximately 40 tonnes of hydrated lime (calcium hydroxide).

Lime for the APC system will be delivered to the Facility in self-unloading trucks and stored in a storage silo. The truck unloading operation is expected to take between 2 and 3 hours to complete. Self-unloading lime truck deliveries average approximately 20 tonnes per delivery.

8.5.3 Pozzolan and Cement Storage

Silos will be located outside of the residue building near the ash conditioning system.

Storage silo size for the Portland cement and pozzolan will store approximately 35 tonnes of each reagent. Silo sizes for Portland cement and pozzolan are approximately 25 m³ and 45 m³ respectively.



The silo is designed such that the delivery truck mounted blower will be capable of unloading the cement or pozzolan directly into the silo by means of a positive pressure conveying system through a fill pipe to the top of the silo. The conveying air will be exhausted from the bin through a silo vent type dust collector.

8.5.4 Ammonia Storage

Ammonia will be stored in a 36 m³ storage tank located southeast of the APC building. The ammonia storage tank installation will be in accordance with *Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities* (May, 2007) and other applicable requirements. Secondary containment will be constructed with a contained volume of impoundment equal to 110 % of the volume of the tank, and such that the horizontal trajectory of a potential leak from the tank will be confined within the impoundment.

Aqueous ammonia solution will be delivered to the Facility in tank trucks with carrying capacity of approximately 22.7 m³. Trucks will be unloaded using truck mounted transfer pumps, and vapour displaced from the receiving tank will vent back to the truck to prevent the release of ammonia vapour during the unloading process.



10.0 POTABLE, PROCESS AND WASTEWATER

The Facility water and waste water system is designed to provide suitable quality water to each process use. The Facility is designed to be a “zero wastewater discharge” Facility, with the exception of the Facility’s sanitary uses.

The Facility water supply will be from the Region of Durham’s municipal water system.

10.1 Water Consumption

The Facility is planned as a “zero (process) wastewater discharge” Facility. The water utilization strategy provides for the maximization of water reuse. Equipment water discharges within the Facility are cascaded to those water uses that can use poorer quality make-up water there by reducing the amount high quality municipal water used.

The Facility is estimated to consume less than 100 litres per minute (lpm) of water under normal operating conditions. A water balance was developed for MCR conditions (drawing M-2602, which replaces Figure 19) and is described below.

Major water consuming equipment is as follows:

- boiler steam generator salt removal via blowdown;
- boiler makeup water treatment system losses;
- steam losses due to deaerator and other miscellaneous vents;
- flue gas spray water (for flue gas quench);
- residue quench and fly ash conditioning;
- plant washings; and
- potable and sanitary uses.

The water uses have been comingled such that initial process water waste streams, such as process blowdowns, are collected and directed to evaporative end uses, such as flue gas scrubber and an ash quenching tank. The potable water system will be used by plant employees as a once-through system to sanitary waste discharge and will not be intermixed with process waste water. For example, potable water uses include drinking water, employee sanitary uses, showers and wash water. Potable water will also be utilized as the supply to the fire protection system and irrigation.

The water used within the process will either evaporate or be captured within the wastewater holding tank or settling tank and re-used. Water from The Regional Municipality of Durham will be used as the only source of water for the Facility. Municipal water will be used directly for the potable water supply within the Facility, fire protection water, irrigation, feed hopper and transition piece cooling, and service water for wash-down and maintenance purposes. Service water can be potable and/or is of sufficient quality which can be used in the plant processes such as wash-down and scrubbing. Water used for transition piece cooling and within the flue gas scrubber will evaporate.



Boiler makeup water is needed to replenish water that has evaporated during de-aeration or has been blowdown to help keep the boiler water clean. The boiler make-up water treatment system provides makeup water of appropriate quality for the boiler to compensate for losses due to: boiler blowdown, deaerator venting, leakage and soot blowing steam. The municipal water used for boiler make-up water will be demineralised using reverse osmosis; the demineralised water is used within the boiler to produce steam to run the turbine and carry the ammonia for the SNCR system.

10.2 Sanitary Wastewater

Sanitary wastewater originates from domestic use of water supply in sinks, toilets and showers. These facilities are discharged through internal plumbing to the Clarington Municipal sanitary sewer system. Applicable local sanitary sewer connection permits will be obtained prior to commencement of operation. The Energy Park will be serviced, taking into account the needs of this Facility. The sanitary sewer connection will be sized for domestic use only and will not be connected to any process water or floor drain systems.

10.3 Process Wastewater

This Facility will be a zero process water discharge facility.

Primary wastewater sources will be handled as follows:

- The continuous reject water flow from the boiler make-up water treatment system, as well as boiler blowdown, will be directed to the waste water holding tank where it will be reused as flue gas quench water, as water supply for fly ash conditioning and makeup for the settling basin.
- Any process wastewater containing solids, such as floor drains, ash discharger overflow and drain water, boiler and turbine-generator wash-down water and APC area wash-down water, will drain via grey water drains and trenches to the Waste Water Settling Basin located just south west of the APC building. No other drains shall be connected to this settling basin/sump. Water drawn from the settling basin is used to quench the bottom ash to provide moisture content for dust control and as water supply for lime conditioning for bottom ash conditioning. Water from the settling basin shall also be directed to hose stations on the charging floor for refuse pit dust control. The basin will not be provided with an overflow connection to the municipal sewer system or site storm water system. To maintain an adequate supply of quench water, water from the wastewater holding tank will be drained into the wastewater settling basin.
- Use of water drawn from the waste water settling basin for bottom ash conditioning will not impact or react in any way with the water and other compounds present in the Waste Water Settling Basin. Hydrated lime (calcium hydroxide) is a relatively stable substance that is not expected to react with other substances that may be present in the Waste Water Settling Basin.
- Wash-down from the tipping hall, if necessary, will be directed to the refuse pit where it will be absorbed by the waste. Any wash-down from residue handling areas is directed to the residue storage piles.

Any processes that utilize reused water will be supplemented by municipal water cascading down from the wastewater holding tank.



Where spillage, leakage or concentrations of oil may occur from equipment and/or storage areas, a floor curb will be built around such equipment and/or storage areas with a trapped floor drain to prevent oil from being entrained in the waste water and drains/trenches.

No process materials or waste will be kept outside of the main Facility buildings. Stormwater from the Site is expected to be of comparable quality to typical runoff from rooftops, roads and parking areas because it will not be exposed to process materials. Refer to Figure 20 for a schematic of the settling basin, which outlines its design.

10.4 Plumbing

The plumbing system design will meet the requirements of all local plumbing codes. References to the local plumbing code mean the plumbing code/standard that is invoked by the authorities having jurisdiction in the locality where the plant is being built.



Report Signature Page

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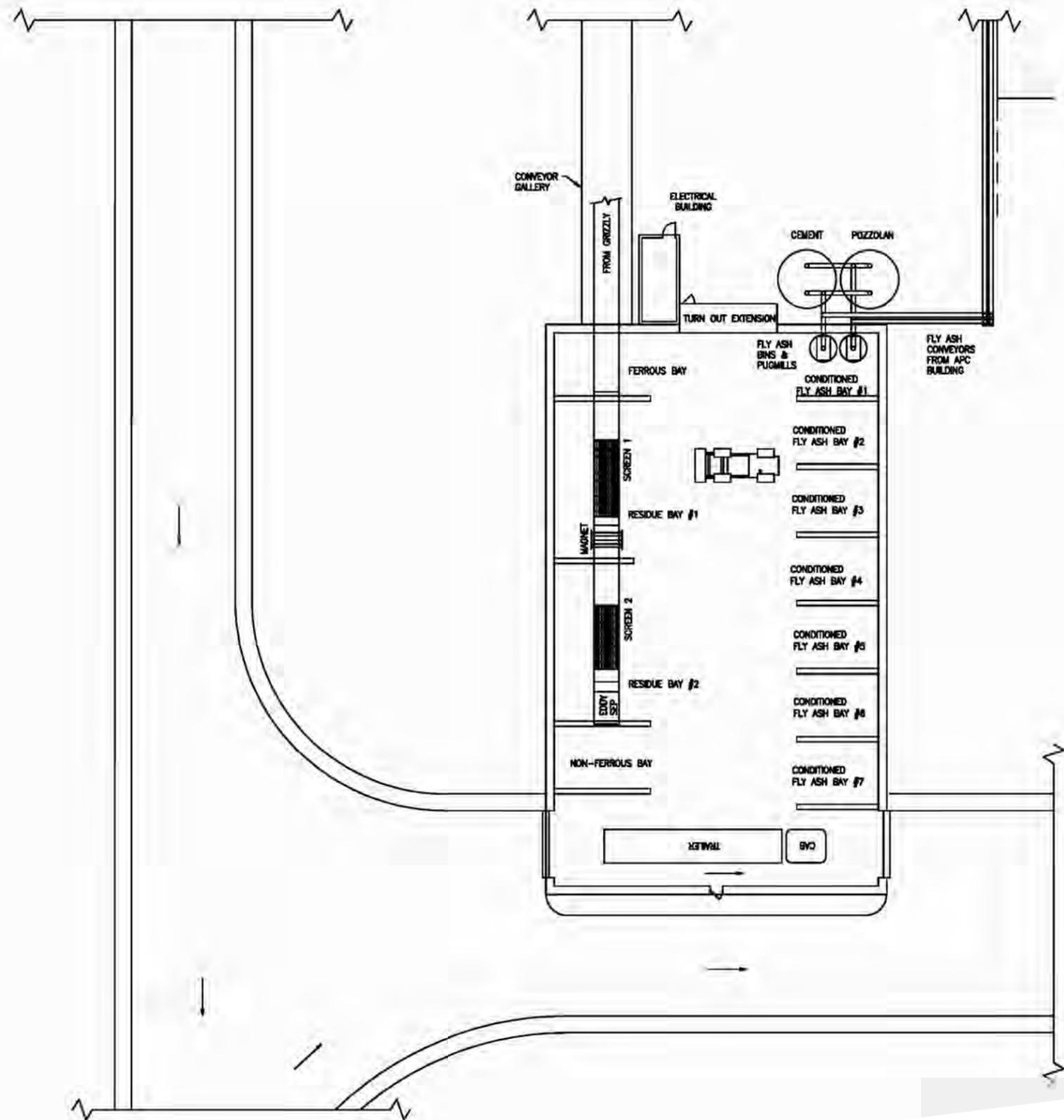
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bottom_ash_amnd_d&o\bottom ash lime technical amendment pkg (final) 2014\05\21.docx



FIGURES

Drawing file: N:\CAD\PROJECTS\2010\10-1151-0343 (Covanta, Durham-York)\AA-EFW Facility\1011510343AA17.dwg Feb 17, 2011 - 10:52am

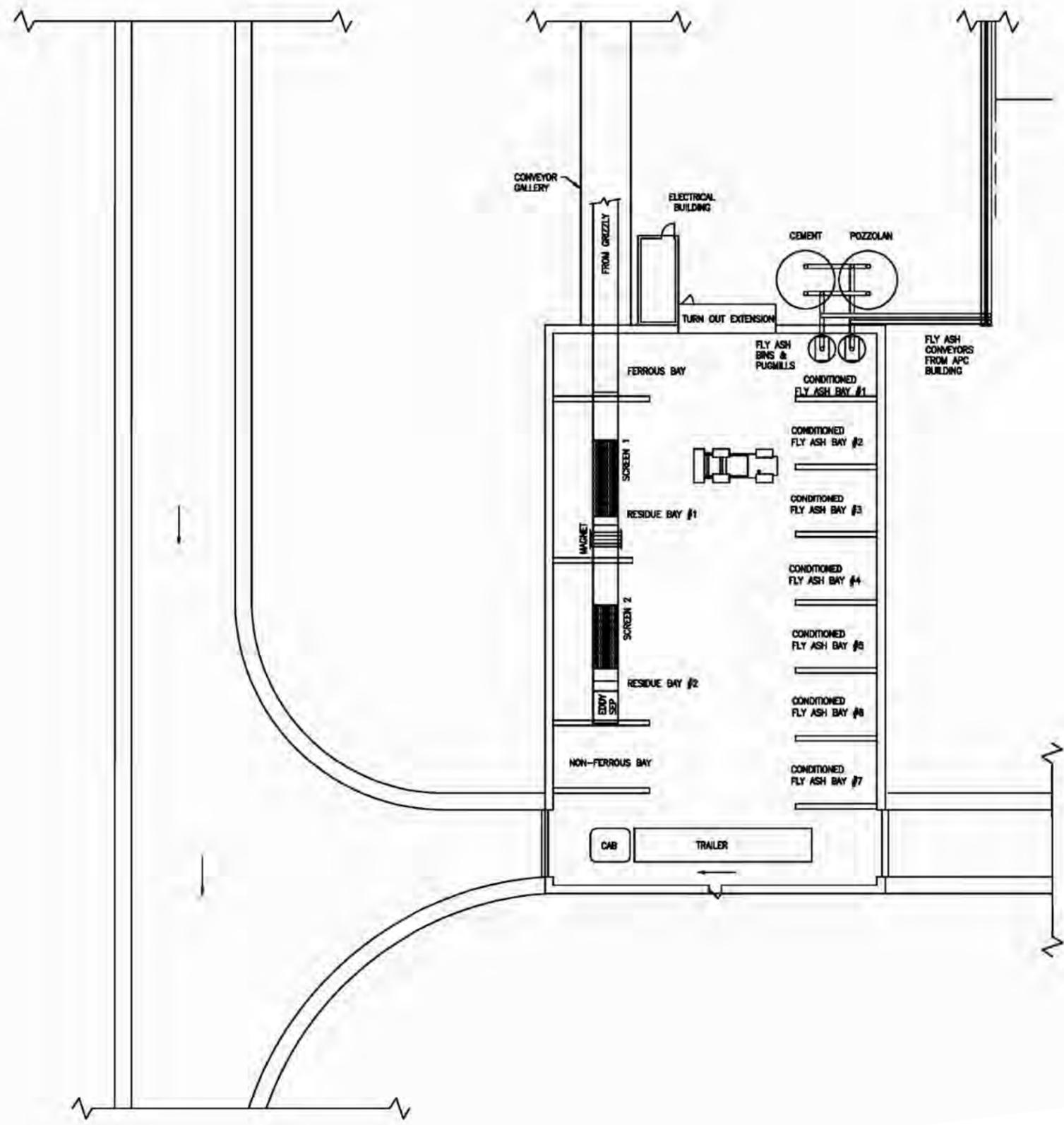


REFERENCE

Base plan provided by Covanta Energy Inc.

PROJECT		Durham York Energy Centre	
TITLE		PRELIMINARY GENERAL ARRANGEMENT RESIDUE BUILDING LAYOUT (ROUTE 1 - OSBOURNE ROAD ENTRANCE)	
PROJECT No.	10-1151-0343	FILE No.	AA17
DESIGN		SCALE	N.T.S. REV.
CADD	PJV Feb. 2011		
CHECK	MK Feb. 2011		
REVIEW	MK Feb. 2011		
		FIGURE 17	

Drawing file: N:\CAD\PROJECTS\2010\10-1151-0343 (Covanta, Durham-York)\AA-EFW Facility\1011510343AA18.dwg Feb 17, 2011 - 10:53am

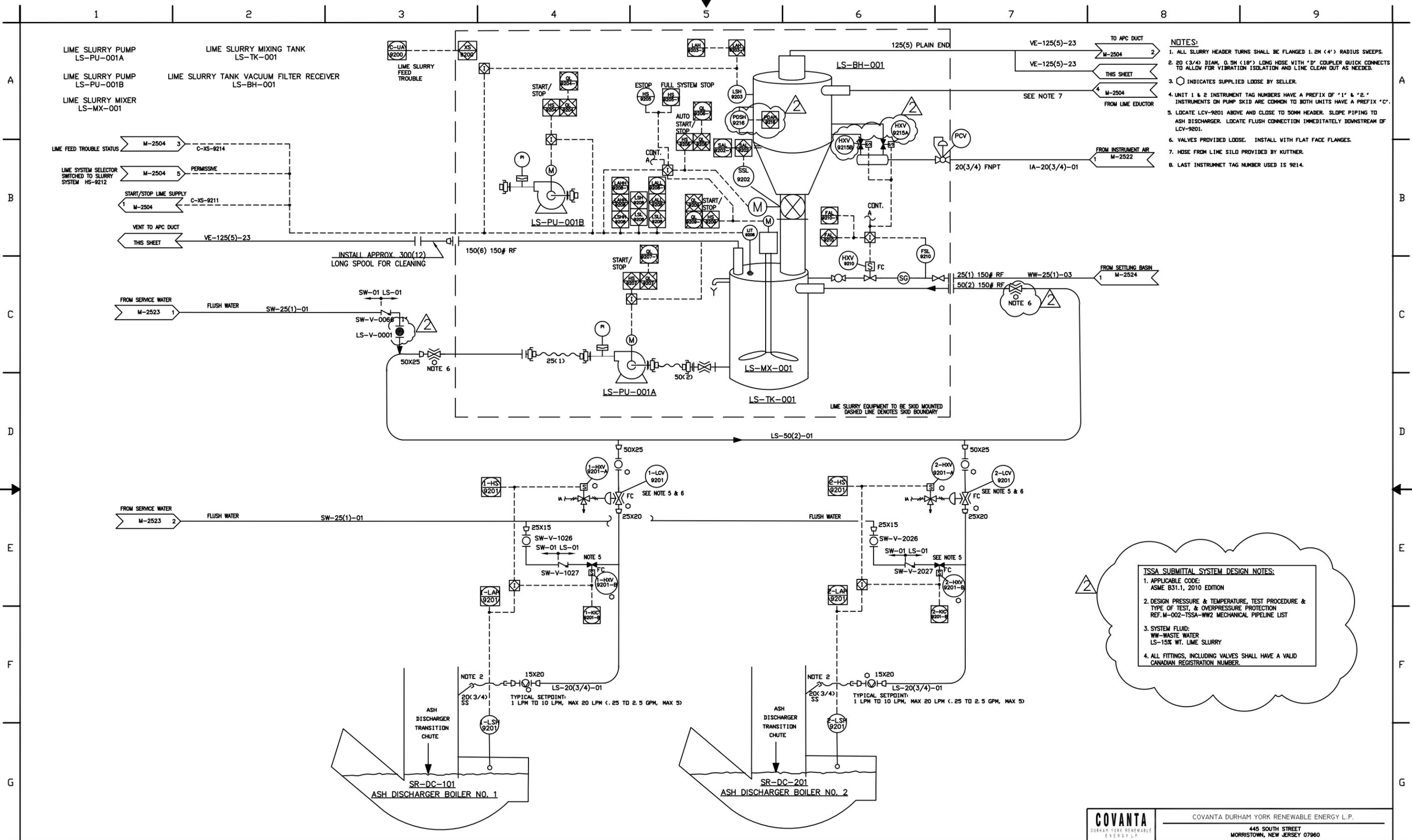


REFERENCE

Base plan provided by Covanta Energy Inc.

PROJECT		Durham York Energy Centre	
TITLE		PRELIMINARY GENERAL ARRANGEMENT RESIDUE BUILDING LAYOUT (ROUTE 2 - COURTYARD ROAD ENTRANCE)	
PROJECT	No. 10-1151-0343	FILE No.	AA18
DESIGN		SCALE	N.T.S. REV.
CADD	PJV Feb. 2011		
CHECK	MK Feb. 2011		
REVIEW	MK Feb. 2011		
		FIGURE 18	

T:\Projects\Covanta\Durham York\13 Drawings\4 Mechanical\4 M-2000 P&ID's\M-2530_2 open.dwg
May 14, 2014 - 2:25pm



- NOTES:**
1. ALL SLURRY HEADER TURNS SHALL BE FLANGED 1.2M (4') RADIUS SWEEPS.
 2. 20 (3/4) DIAM, 0.5M (18") LONG HOSE WITH "D" COUPLER QUICK CONNECTS TO ALLOW FOR VIBRATION ISOLATION AND LINE CLEAN OUT AS NEEDED.
 3. ○ INDICATES SUPPLIED LOOSE BY SELLER.
 4. UNIT 1 & 2 INSTRUMENT TAG NUMBERS HAVE A PREFIX OF '1' & '2.' INSTRUMENTS ON PUMP SKID ARE COMMON TO BOTH UNITS HAVE A PREFIX 'C'.
 5. LOCATE LCV-9201 ABOVE AND CLOSE TO 50MM HEADER. SLOPE PIPING TO ASH DISCHARGER. LOCATE FLUSH CONNECTION IMMEDIATELY DOWNSTREAM OF LCV-9201.
 6. VALVES PROVIDED LOOSE. INSTALL WITH FLAT FACE FLANGES.
 7. HOSE FROM LINE SILD PROVIDED BY KUTTNER.
 8. LAST INSTRUMENT TAG NUMBER USED IS 9214.

TSSA SUBMITTAL SYSTEM DESIGN NOTES:

1. APPLICABLE CODE:
ASME B31.1, 2010 EDITION
2. DESIGN PRESSURE & TEMPERATURE, TEST PROCEDURE & TYPE OF TEST, & OVERPRESSURE PROTECTION
REF. M-002-TSSA-WW2 MECHANICAL PIPELINE LIST
3. SYSTEM FLUID:
WW-WASTE WATER
LS-15% WT. LIME SLURRY
4. ALL FITTINGS, INCLUDING VALVES SHALL HAVE A VALID CANADIAN REGISTRATION NUMBER.

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY PROJECT ENGINEER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.

REV	DATE	BY	CHK	APPR	ISSUED FOR
2	05/13/14	A.D.	R.A.M.	R.A.M.	CONSTRUCTION
1	04/11/14	A.D.	R.A.M.	R.A.M.	CONSTRUCTION
0	02/25/14	A.D.	A.S.	R.A.M.	CONSTRUCTION
			CHK	APPR	ISSUED FOR

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PROJECT ENGINEER
N. RUDOLPH

ENGINEER
R. MARTINSEN

DATE
08/20/13

SCALE
-

DRAWN
J. JUNGEN

CHECKED
G. KOSIBA

APPROVED
R. MARTINSEN

APPROVED
A. DeCRISTOFARO

SIGMA ENERGY SOLUTIONS

One Huntington Quadrangle Suite 4509
Melville, NY, 11747

RCM Technologies
The Source of Smart Solutions
RCM Technologies Canada Corp.

895 Brook Rd. S.
Pickering, ON. L1W 3C1

ONTARIO REGISTERED ENGINEER

COVANTA
DURHAM YORK RENEWABLE ENERGY L.P.

COVANTA DURHAM YORK RENEWABLE ENERGY L.P.
445 SOUTH STREET
MORRISTOWN, NEW JERSEY 07960

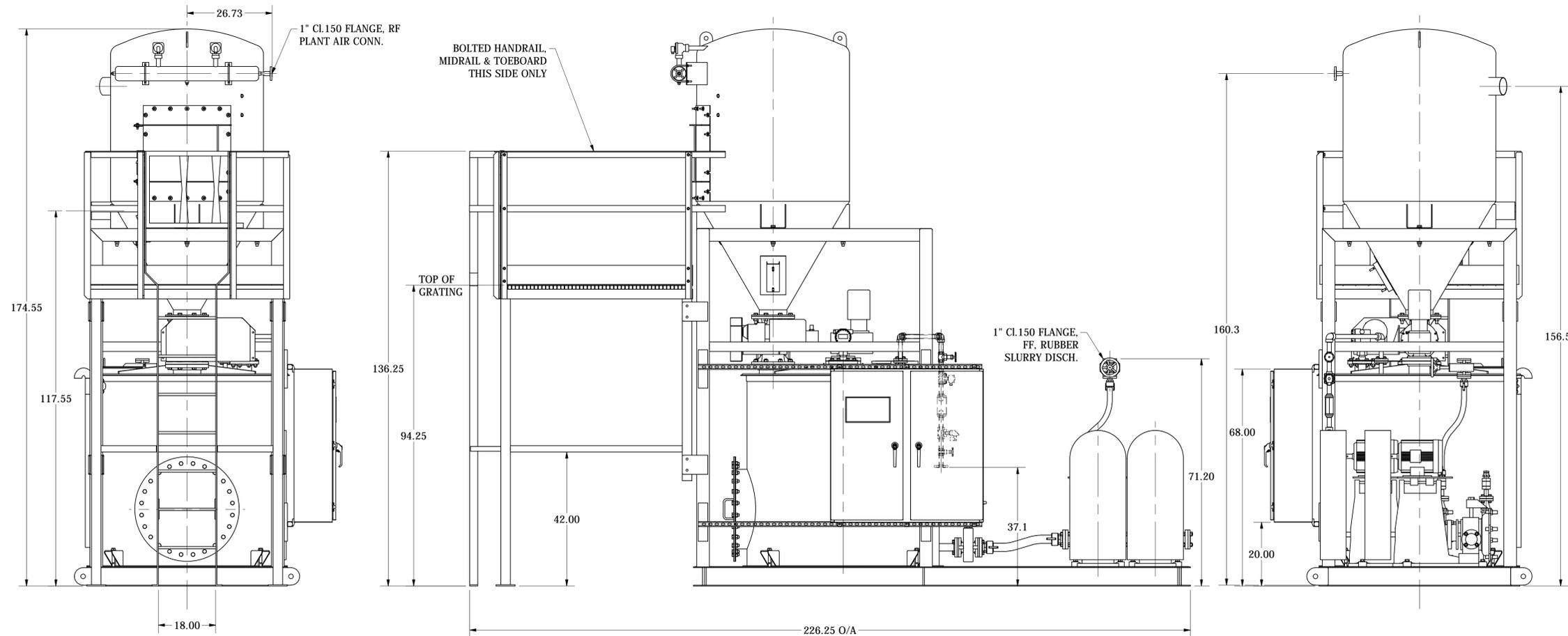
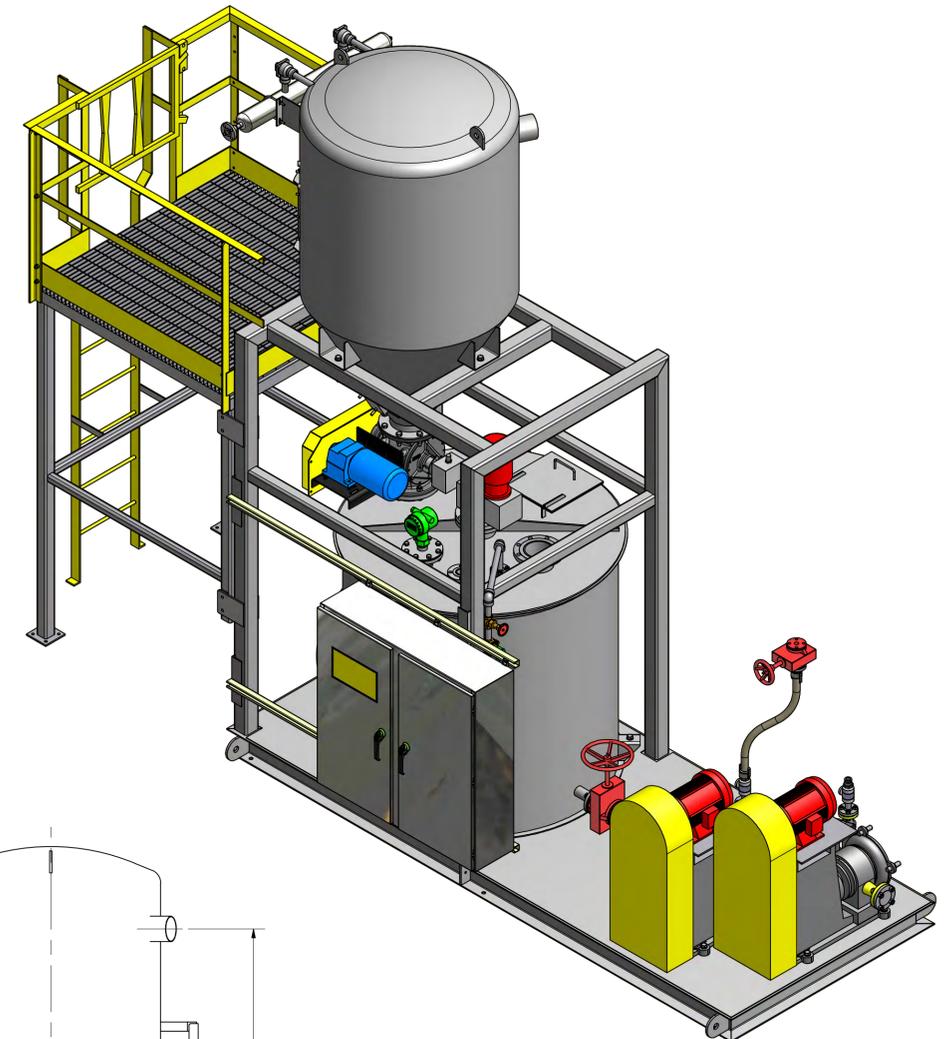
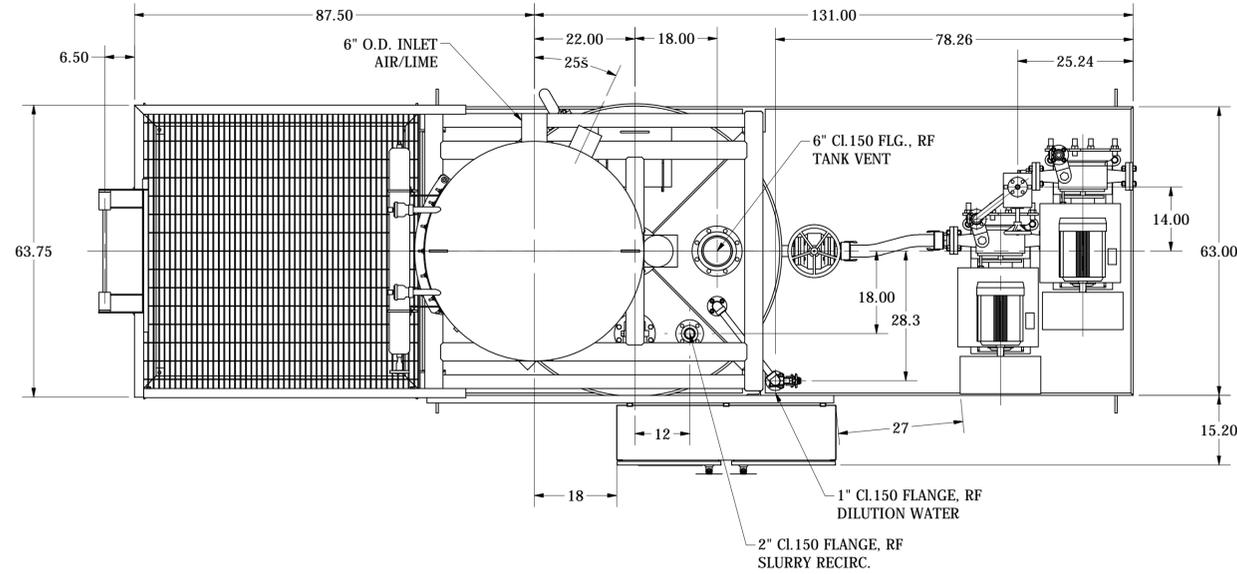
**DURHAM & YORK REGIONS
DURHAM-YORK ENERGY CENTRE**
MUNICIPALITY OF CLARINGTON, ONTARIO

**PIPING & INSTRUMENTATION DIAGRAM
BOTTOM ASH LIME SLURRY SYSTEM**

ORIGINAL SIZE: 24" x 36"
WORK CODE: 51611

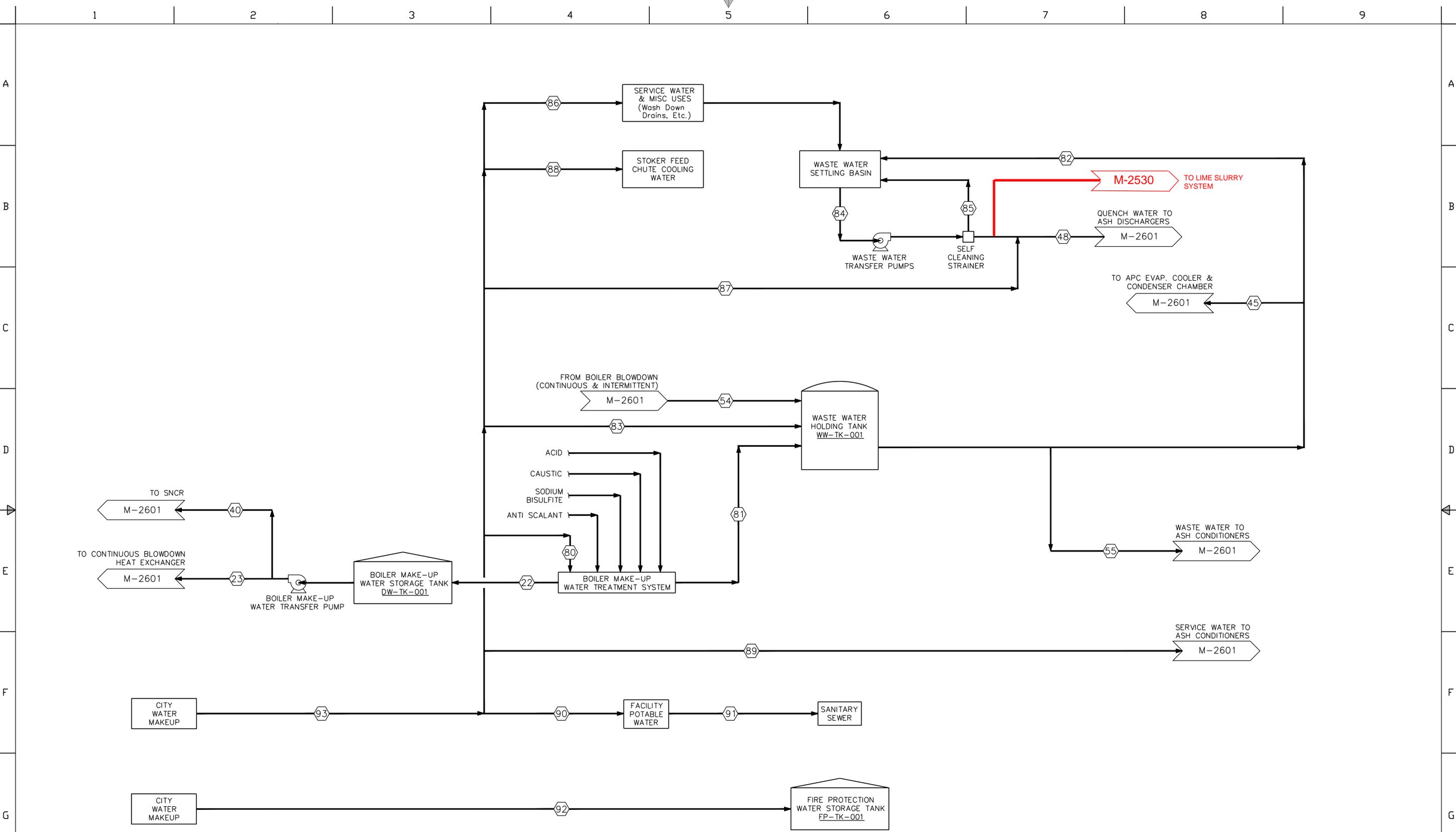
COVANTA PN: M-2530

51611



DRAWN	Emil D.	2014-04-08		THIS DRAWING IS THE PROPERTY OF AND CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION OF STT. IT MAY NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF STT. USE OF THIS DRAWING IS PERMITTED ONLY FOR THE SPECIFIC PURPOSE FOR WHICH IT WAS ISSUED.		
CHECKED				TITLE	COVANTA DURHAM YORK HYDRATED LIME SYSTEM FOR BOILER BOTTOM ASH	
QA			SIZE	D	DWG NO	REV
MFG			D	SO-70258	70258-1-ME-GA-SK-001	0
APPROVED			SCALE	1:20	ISSUED FOR INFORMATION	

I:\Projects\Covanta\Durham York\13 Drawings\4 Mechanical\5 M-2100 Process Flow Diagrams\M-2602_D.dwg
Oct 29, 2013 11:27am



REV	DATE	BY	CHK	APPR	ISSUED FOR
D	10/28/13	D.H.	G.K.	R.A.M.	INFORMATION AND REFERENCE
C	06/17/13	D.H.	G.K.	R.A.M.	REVIEW AND COMMENT
B	03/08/13	D.H.	M. LE	R.A.M.	75% REVIEW
A	05/24/12	G.M.	M. LE	R.A.M.	REVIEW AND COMMENT

REVISION DESCRIPTION
GENERAL REVISION
GENERAL REVISION
PER COVANTA COMMENTS
ORIGINAL ISSUE

PROJECT ENGINEER N. RUDOLPH
ENGINEER R. MARTINSEN
DATE 05/24/12
SCALE NONE
DRAWN G. MOREAU
CHECKED M. LE
APPROVED R. MARTINSEN
APPROVED A. DeCRISTOFARO

SIGMA ENERGY SOLUTIONS

One Huntington Quadrangle Suite 4509
Melville, NY, 11747

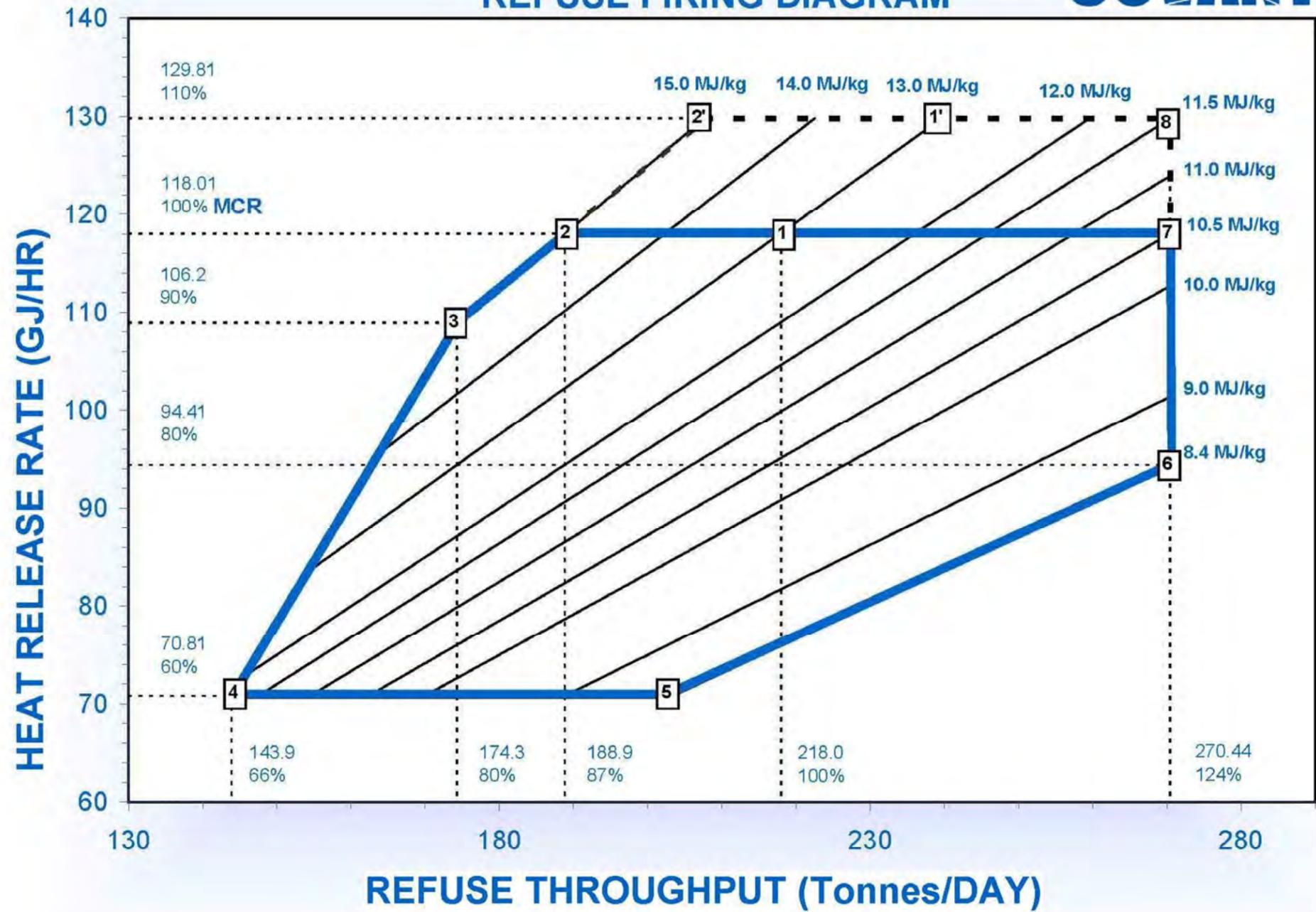
RCM Technologies
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895 Brock Rd. S.
Pickering, ON. L1W 3C1

ONTARIO REGISTERED ENGINEER

COVANTA ENERGY INC.	COVANTA ENERGY INC. 40 LANE ROAD FAIRFIELD, NEW JERSEY 07007-2615
DURHAM & YORK REGIONS ENERGY FROM WASTE FACILITY BASE CASE FACILITY MUNICIPALITY OF CLARINGTON, ONTARIO	
WATER BALANCE DIAGRAM	
ORIGINAL SIZE: 24"x36"	COVANTA PN: _____ Document ID: M-2602
WORK ORDER: _____	Rev.

REFUSE FIRING DIAGRAM



REFERENCE

Base plan provided by Covanta Energy Inc.

PROJECT		Durham York Energy Centre	
TITLE		REFUSE FIRING DIAGRAM	
PROJECT No.	10-1151-0343	FILE No.	AA08
DESIGN		SCALE	NTS
CADD	JLJM Jan. 2011		REV.
CHECK	MK Feb. 2011	FIGURE 2	
REVIEW	MK Feb. 2011		



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4860250



LEGEND

- Stack
- Truck Access/ Egress Route
- Site Road (Gravel)
- Site Road (Paved)
- Railway
- Roof Plan
- Approximate Site Boundary

ID	Description
A	Carbon Silo
B	Pozzolan Silo
C	Portland Cement Silo
D	Lime Silo
E	Diesel Generator
F	Ammonia Storage Tank

ID	Building	Height (m)
1	Tipping Building	15.0
2	Refuse Building	35.1
3	Admin Building	5.3
4	Boiler Building	35.1
5	Turbine Building	19.0
6	Scrubber Building	35.1
7	Baghouse Building	25.0
8	Maintenance and Storage Building	12.1
9	Control Room	24.2
10	Air Cooled Condensers	24.7
11	Visitor Centre	11.3
12	Electrical Building	5.0
13	Residue Storage Building	17.2
14	Fire Water Pump House	10.0
15	Fire Water Tank	8.0
16	Grizzly Building	6.0
17	Diesel Genset	2.5
18	Scale House	-



REFERENCE

Base Data - MNR NRVIS, obtained 2004, CANMAP v2006.4
 Imagery: Firstbase Solutions, obtained on December 16, 2010, 20 cm resolution.
 Produced by Golder Associates Ltd under licence from Ontario Ministry of Natural Resources, © Queens Printer 2008
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17N



PROJECT			
DURHAM YORK ENERGY CENTRE			
TITLE			
BUILDING LOCATION PLAN (ROUTE 1 - OSBOURNE ROAD ENTRANCE)			
 Golder Associates Mississauga, Ontario	PROJECT NO.	10-1151-0343	SCALE AS SHOWN
	DESIGN	PRM 25 Aug. 2010	REV. 0.0
	GIS	PRM 2 Feb. 2011	
	CHECK	MK 2 Feb. 2011	
	REVIEW	PN 2 Feb. 2011	

FIGURE: 8



680250

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LEGEND

- Stack
- ➔ Truck Access/ Egress Route
- Site Road (Paved)
- ⋯ Site Road (Gravel)
- + Railway
- Roof Plan
- Approximate Site Boundary

ID	Description
A	Carbon Silo
B	Pozzolan Silo
C	Portland Cement Silo
D	Lime Silo
E	Diesel Generator
F	Ammonia Storage Tank

ID	Building	Height (m)
1	Tipping Building	15.0
2	Refuse Building	35.1
3	Admin Building	5.3
4	Boiler Building	35.1
5	Turbine Building	19.0
6	Scrubber Building	35.1
7	Baghouse Building	25.0
8	Maintenance and Storage Building	12.1
9	Control Room	24.2
10	Air Cooled Condensers	24.7
11	Visitor Centre	11.3
12	Electrical Building	5.0
13	Residue Storage Building	17.2
14	Fire Water Pump House	10.0
15	Fire Water Tank	8.0
16	Grizzly Building	6.0
17	Diesel Genset	2.5
18	Scale House	-



REFERENCE

Base Data - MNR NRVIS, obtained 2004, CANMAP v2006.4
 Imagery: Firstbase Solutions, obtained on December 16, 2010, 20 cm resolution.
 Produced by Golder Associates Ltd under licence from Ontario Ministry of Natural Resources, © Queens Printer 2008
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17N



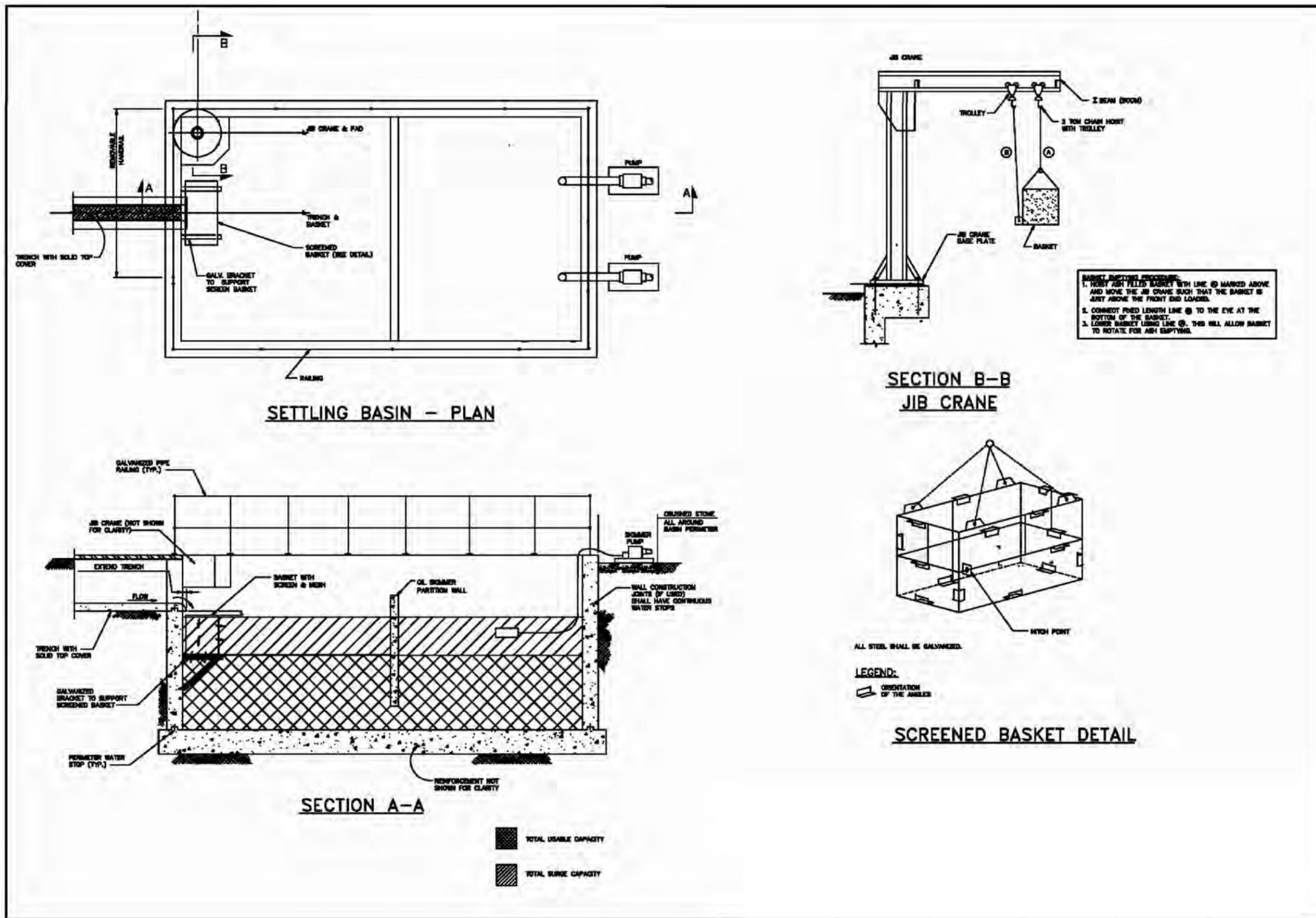
PROJECT			
DURHAM YORK ENERGY CENTRE			
TITLE			
BUILDING LOCATION PLAN (ROUTE 2 - COURTYARD ENTRANCE)			
	PROJECT NO. 10-1151-0343	SCALE AS SHOWN	REV. 0.0
DESIGN PRM 25 Aug. 2010	GIS PRM 2 Feb. 2011		
CHECK MK 2 Feb. 2011	REVIEW PN 2 Feb. 2011		
			FIGURE: 9

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Drawing file: N:\CAD\PROJECTS\2010\10-1151-0343 (Covanta, Durham-York)\AA-EFW Facility\1011510343AA20.dwg Feb 22, 2011 - 3:29pm



REFERENCE

Base plan provided by Covanta Energy Inc.

PROJECT		Durham York Energy Centre	
TITLE		SETTLING BASIN SCHEMATIC	
PROJECT No. 10-1151-0343	FILE No.	AA20	
DESIGN		SCALE	N.T.S. REV.
CADD	PJV Feb. 2011		
CHECK	MK Feb. 2011		
REVIEW	MK Feb. 2011		



FIGURE 20



ATTACHMENT 2

Host Community Agreement

'10FEB19 PM 4:28:08



February 19, 2010

The Regional
Municipality
of Durham

Office of the C.A.O.

605 ROSSLAND ROAD E.
PO BOX 623
WHITBY ON L1N 6A3
CANADA
905-668-7711
1-800-372-1102
Fax: 905-668-1567
Email: garry.cubitt@durham.ca

www.durham.ca

Garry H. Cubitt, M.S.W., C.S.W.
Chief Administrative Officer

Ms. Patti Barrie
Clerk
Municipality of Clarington
40 Temperance Street
Bowmanville, Ontario
L1C 3A6

Dear Ms. Barrie:

Re: Host Community Agreement

As the official record keeper for the Municipality of Clarington, I am forwarding to you one original signed copy of the Host Community Agreement between the Municipality of Clarington and the Regional Municipality of Durham for your records and files.

Yours truly,

Garry H. Cubitt, M.S.W.
Chief Administrative Officer

Attachment

c: F. Wu, Chief Administrative Officer, Municipality of Clarington

DISTRIBUTION		
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ORIGINAL TO:		
<input type="checkbox"/> COUNCIL DIRECTION	<input type="checkbox"/> COUNCIL INFORMATION	<input type="checkbox"/> FILE
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<input type="checkbox"/> MAYOR	<input type="checkbox"/> MEMBERS OF COUNCIL	<input type="checkbox"/> CAO
<input type="checkbox"/> COMMUNITY SERVICES	<input type="checkbox"/> CORPORATE SERVICES	<input type="checkbox"/> EMERGENCY SERVICES
<input type="checkbox"/> ENGINEERING SERVICES	<input type="checkbox"/> MUNICIPAL CLERK'S	<input type="checkbox"/> OPERATIONS
<input type="checkbox"/> PLANNING SERVICES	<input type="checkbox"/> SOLICITOR	<input type="checkbox"/> TREASURY
<input type="checkbox"/> OTHER	_____	
MUNICIPAL CLERK'S FILE <u>LO4RE</u>		

"Service Excellence
for our Communities"



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This Host Community Agreement dated the 18th, day of February, 2010 is made,

BETWEEN:

THE REGIONAL MUNICIPALITY OF DURHAM

("Durham")

-and-

THE CORPORATION OF THE MUNICIPALITY OF CLARINGTON

("Clarington")

WHEREAS:

- (a) Durham jointly with The Regional Municipality of York, is in the midst of a procurement process designed to identify a preferred vendor capable of designing, building and operating an energy from waste ("EFW Facility") sufficient to meet their needs, as identified through an individual environmental assessment (the "EA") undertaken to identify a preferred method of processing post-diversion waste;
- (b) The EA process has resulted in the approval by Durham Regional Council of a preferred site for the EFW Facility within the Municipality of Clarington ("Clarington"), more particularly described in Schedule "A" hereto.
- (c) Durham is completing its requirements to finalize the EA for submission to the Minister of the Environment and to make application under the Environmental Protection Act for one or more Certificates of Approval.
- (d) Clarington will be the host community of the EFW Facility to the benefit of communities in Durham, York, the industrial/commercial/institutional sector, and potentially municipal waste from other municipalities identified in the EA.
- (e) Durham and Clarington wish to enter into this agreement in order to set forth their respective rights, duties, obligations and commitments regarding the development, construction and operation of the EFW Facility.

NOW THEREFORE the parties agree as follows:

1. Term

1.1 This agreement shall commence upon the date that it is last signed and shall last for the operational lifespan of the EFW Facility.

1.2 In the event that the facility is expanded beyond 400,000 tonnes per year and the expanded portions of the EFW Facility have a twenty five (25) year operating period, Durham and Clarington either shall extend the term of this agreement or enter into a new Host Community Agreement.

2. Community Consultation and Communications

2.1 Durham shall support the development and operation of an EFW Site Liaison Committee (SLC) for the purpose of facilitating input from the community and the distribution of relevant information in regards to the construction, operation and monitoring of the EFW facility.

2.2 The scope for a Terms of Reference for a new SLC shall be agreed upon by Durham and Clarington at the conclusion of the mandate of the initial SLC, which terms shall otherwise be generally analogous to the current committee.

2.3 Durham shall present to Clarington Council and hold one community information meeting prior to the submission of the final EA documentation to the Ministry of the Environment for approval. In addition, Durham shall make a presentation to Clarington Council and shall hold one community information meeting before the Site Liaison Committee regarding the terms of the Certificate of Approval for the EFW Facility subsequent to its issuance.

3. Protection of Human Health and the Environment

3.1 Durham shall ensure that the EFW Facility incorporates and utilizes modern, state of the art, emission control technologies that meet or exceed the Ontario A7 air emission guidelines and European Union standards as identified below:

**THE REGIONS' AIR EMISSION CRITERIA BASED UPON THE PROVINCE OF ONTARIO
AND EUROPEAN UNION AIR EMISSION REQUIREMENTS**

Total Particulate Matter	mg/Rm3	9	(2)
Sulphur Dioxide (SO ₂)	mg/Rm3	35	(3)
Hydrogen Chloride (HCl)	mg/Rm3	9	(4)
Hydrogen Flouride (HF)	mg/Rm3	0.92	(4)
Nitrogen Oxides (NO _x)	mg/Rm3	180	(4)
Carbon Monoxide (CO)	mg/Rm3	45	(4)
Mercury (Hg)	µg/Pµ3	15	(2)
Cadmium (Cd)	µg/Pµ3	7	(2)
Cadmium + Thallium (Cd + Th)	µg/Pµ3	46	(2)
Lead (Pb)	µg/Pµ3	50	(2)
Sum of (As, Ni, Co, Pb, Cr, Cu, V, Mn, Pb)	µg/Pµ3	460	(2)
Dioxins	pg/Rm3	60	(2)
Organic Matter (as CH ₄)	mg/Rm3	49	(2)

NOTES:

(1) = All units corrected to 11% O₂ and adjusted to Reference Temperature and Pressure
mg/Rm3 = Milligrams per Reference Cubic Metre (25°C, 101.3 kPa)

*g/Rm3 = Micrograms per Reference Cubic Metre (25°C, 101.3 kPa)

pg/Rm3 = Picograms per Reference Cubic Metre (25°C, 101.3 kPa)

(2) Calculated as the arithmetic average of 3 stack tests conducted in accordance with standard methods

(3) Calculated as the geometric average of 24 hours of data from a continuous emission monitoring system

(4) Calculated as the arithmetic average of 24 hours of data from a continuous emission monitoring system

3.2 Durham shall ensure that the EFW Facility utilizes maximum achievable control technology (MACT) for emissions control and monitoring systems. Durham and the operator shall seek to achieve normal operating levels significantly better than the emission limits identified in Section 3.1.

3.3 Durham shall ensure that, where technically possible, the EFW Facility utilizes 24/7 monitoring systems for such parameters as are deemed appropriate by the Ministry of the Environment. The results of such monitoring systems shall be made accessible to the public on a website or programmable display board designed for such purpose. In addition, Durham shall ensure that the operator monitors the ambient air in the immediate vicinity of the EFW Facility for a three year term commencing upon the commencement of operations.

4. Facility Size

4.1 Durham is seeking approval from the Ministry of the Environment to construct and operate an EFW Facility with a total processing capacity of up to 400,000 tonnes per year of municipal solid waste.

4.2 The parties hereto acknowledge and agree that EFW Facility will not immediately be constructed to the ultimate capacity. Durham will be seeking an initial Certificate of Approval for the construction and operation of a facility for approximately 140,000 tonnes per year. The capacity of the EFW Facility may be expanded, as required by Durham and York, up to the maximum permissible capacity set forth by the Ministry of the Environment in the Certificate of Approval which may be amended from time to time. The EFW Facility may not be expanded in excess of 400,000 tonnes per year.

4.3 At the time of any expansion, Durham will give consideration to improvements to the emission control system to meet the then current MACT standards and shall apply for a new or amended Certificate of Approval if required by the Province of Ontario.

4.4 Durham will not construct a transfer station for ICI waste in Clarington without the agreement of Clarington.

5. Architectural/Site Plan Considerations

5.1 Clarington shall be consulted with respect to the architectural and site plan requirements section(s) of the Request for Proposals.

5.2 Clarington and Durham shall negotiate in good faith the terms of a site plan agreement for the development of the EFW Facility site which shall include the lands required for the private truck access lane referred to in paragraph 9.5. Durham shall comply with normal site plan and building code permit requirements and shall construct Energy Drive through their lands identified on Schedule "A".

5.3 Durham shall incorporate a cash allowance of no less than Nine Million Dollars (\$9,000,000) in the Request for Proposals ("RFP") for the provision of architectural treatments and upgrades to the EFW Facility. Durham shall consult with Clarington on the proposed architectural treatments received from the preferred bidder and prior to submitting their site plan application to Clarington for approval.

5.4 At the time of any expansion, Durham will include similar and consistent architectural treatments and upgrades to any new portions of the EFW Facility. Durham shall consult with Clarington on the proposed architectural treatments during the finalization of the arrangements with the Operator for the expansion and prior to submitting their site plan application to Clarington for approval of the expansion.

6. Commitment to a Comprehensive Waste Management Strategy

6.1 Durham shall continue to implement and support an aggressive residual waste diversion and recycling program to achieve and/or exceed a 70% diversion recycling rate for the entire Region.

6.2 Durham shall establish a hazardous waste depot to serve the residents of Clarington within one (1) year of commissioning of the EFW Facility.

7. EFW Facility Waste Sources

7.1 Durham shall ensure that the source of the waste processed at the EFW Facility is consistent with that identified in the EA Terms of Reference and supporting documentation.

7.2 The Parties agree that Industrial, Commercial and Institutional ("ICI") Waste, with a similar composition to municipal solid waste, may be processed at the EFW Facility provided that said ICI Waste is first screened at a transfer station to ensure the removal of any undesirable and hazardous materials.

7.3 The EFW Facility may be utilized to process biosolid wastes generated from water pollution control plants located within Durham Region on an emergency basis in order to support Durham's other operations provided that biosolid wastes do not comprise more than 10% of the total annual tonnage of waste processed at the EFW Facility in a calendar year.

7.4 Notwithstanding the provisions of 7.1 hereof, in the event that the source of waste processed at the EFW Facility at any subsequent time includes the City of Toronto, then Clarington shall be paid the sum of Ten Dollars (\$10.00) per tonne for each tonne of waste from that source.

8. Payments in Lieu of Taxes

8.1 Durham shall not structure the ownership of the EFW Facility in any way designed to attain tax exempt status or to avoid the Payments in Lieu of Taxes (PIL's).

8.2 Durham acknowledges that the PIL will be in the vicinity of \$650,000 per year. However Durham cannot guarantee the exact amount as that is a matter outside of its direct control.

9. Economic Development

9.1 Durham shall acquire title by way of agreement or expropriation to the properties described in Schedule "B". Upon the properties described in Schedule "B" being determined by Durham Regional Council to be surplus to the present or future requirements of the Regional Municipality of Durham, then Durham shall convey, at nominal consideration, some part of the lands described in Schedule "B" to The Municipality of Clarington.

9.2 Prior to the commissioning of the EFW Facility, Durham shall complete construction of Energy Drive from Courtice Road to Osbourne Road as a Type "C" Arterial road, complete with

all applicable services including: sanitary sewerage, watermains, storm drainage, district heating, and street lighting and shall dedicate Energy Drive to Clarington as a public highway.

9.3 Durham shall construct a storm water management facility of a sufficient size to accommodate development of the Energy Park and Clarington shall execute a front-ending agreement in order to receive and reimburse Durham for the proportional costs of same from any benefiting landowners within the Energy Park. Provided approval to cross the CN Railway line with the necessary drainage works can be reasonably obtained from the Canadian National Railway, then Durham shall construct the storm water management facility on the lands described in 9.7 hereof.

9.4 Durham shall commence an environmental assessment process to support the provision of municipal services to the east Bowmanville science park which is located north of Highway 401.

9.5 Durham shall construct a private truck access lane with landscaping or other screening on its lands on the north side of the Canadian National Railway line connecting with Courtice Road to be utilized, where possible, for all deliveries of waste to the EFW Facility.

9.7 Durham shall convey to Clarington at a nominal cost the lands on the west side of Courtice Road identified in Schedule "C".

9.8 Concurrent with the construction of the EFW Facility, Durham shall construct a segment of a paved asphalt waterfront trail on a mutually agreed upon alignment from Courtice Road to the eastern limits of Durham's lands south of the Courtice Water Pollution Control Plant.

10. Operational Issues

10.1 Durham shall require the operator of the EFW Facility (the "Operator") to have the EFW Facility compliant with the International Standards Organization 14001:2004 Environmental Management Standard (ISO 14001) within thirty six (36) months of its commencing operations and to maintain such compliance thereafter.

10.2 Durham shall ensure that the Operator prepares, maintains and adheres to an Emergency Management Plan (including spills) for the EFW Facility which Plan shall be reviewed and approved by the Clarington Emergency and Fire Services Department.

10.3 Deleted

10.4 Durham shall ensure that the bottom and fly ash generated at the EFW Facility are dealt with in a manner which complies with all applicable legal and regulatory requirements and approvals. Bottom ash can be stored outside if fully screened. Fly ash shall be stored internally in a building until the time of transfer to a disposal site. No bottom ash or fly ash shall be disposed of in a landfill site in Clarington.

10.5 Durham will require the Operator of the EFW Facility to provide a certificate of insurance showing the Municipality of Clarington as an additional insured thereon.

10.6 Durham hereby agrees to indemnify and hold Clarington harmless from all manner of actions, causes of action, suits, demands, and claims whatsoever in connection with any and all injuries up to and including death, or damages to its property, which may occur as a result of the design, construction or operation of the EFW Facility save and except when such injury, loss or

damage is occasioned by the negligent acts or omissions or willful misconduct of Clarington, or those for whom it is at law responsible..

10.7 Durham shall ensure that all waste haulage vehicles accessing and egressing the EFW Facility site will use the truck access routes.

10.8 In addition to all public information, the Operator shall on or before March 31st in each calendar year provide the Clerk of Clarington with a report related to the emissions output from the EFW Facility for the previous calendar year.

11. End Use Plan

11.1 Durham shall decommission and dismantle the EFW Facility within five (5) years of its ceasing of operations to a standard suitable for re-use as an industrial/commercial site.

12. Issue Resolution

12.1 In the event of any dispute, disagreement, or claim arising under or in connection with this Agreement, then the parties hereto shall, upon written notice from either party, meet as soon as reasonably possible in order to resolve said dispute.

12.2 In the event that informal discussions are not effective in resolving any disputes or differences of opinion arising between the parties which concern or touch upon the validity, construction, meaning, performance or effect of this Agreement, then said dispute shall first be mediated within a sixty (60) day time period prior to any dispute proceeding to arbitration. The parties shall determine a mutually agreeable location for the mediation to occur. The parties shall make all reasonable efforts to resolve their disputes by amicable negotiations and agree to provide, without prejudice, frank, candid, and timely disclosure of relevant facts, information, and documents to facilitate these negotiations. Any resolution of the dispute in mediation shall be kept confidential by all parties.

12.3 By giving a notice in writing to the other party, not later than ten (10) working days after the date of termination of the mediated negotiations, all matters remaining in difference between the parties in relation to this Agreement shall then be referred to the arbitration of a single arbitrator, if the parties agree upon one, otherwise to three arbitrators, one to be appointed by each party and a third to be chosen by the first two named before they enter upon the business of arbitration. The award and determination of the arbitrator or arbitrators or two of the three arbitrators shall be binding upon the parties and their respective heirs, executors, successors, administrators and assigns.

13. Clarington's Commitments

13.1 Clarington agrees, in consideration of the aforementioned commitments on the part of Durham, to be a willing host to the EFW Facility and to acknowledge that willingness as follows:

.1 It shall not oppose the development or operation of the EFW Facility;

.2 It acknowledges that, provided that there is public ownership of the EFW Facility and the site by one or more municipalities, it will be considered a "public use" for the purposes of the Zoning By-law and that is not necessary to amend the Clarington Official Plan or Zoning By-law;

.3 It shall expedite the review of all applications for approval submitted by, or on behalf of, the Operator or Durham related to the construction, maintenance and operation of the EFW Facility; and,

.4 Should the existing South Service Road ever be deemed to be surplus due to the construction of Energy Park Drive, the South Service Road shall be closed and conveyed to Durham for nominal consideration; and,

.5 It shall strongly encourage and promote development within the Clarington Energy Business Park and other areas of Clarington to utilize district heating and cooling provided by the EFW Facility.

14. Miscellaneous

14.1 This agreement is entered into solely between Durham and Clarington and is not intended or designed, and in fact it explicitly excludes the creation of any rights or beneficial interests in any third party save and except the Regional Municipality of York in so far as its interest exists in the EFW Facility, from time to time.

15. Further Assurances

The parties hereby covenant and agree, after a request in writing by one party to the other parties, to forthwith execute and provide all further documents, instruments and assurances as may be necessary or required in order to carry out (and give effect to) the true intent of this Agreement, and to effect the registration against and release from title to the lands subject to this Agreement of such notices or other instruments in accordance with the provision of this Agreement.

16. Enurement

This Agreement shall enure to the benefit of and bind the parties hereto and their respective successors and assigns.

IN WITNESS WHEREOF Durham and Clarington have executed this Host Community Agreement.

THE REGIONAL MUNICIPALITY OF DURHAM

Per: _____
Roger Anderson, Regional Chair

Per: _____
Pat Madill, Regional Clerk

THE CORPORATION OF THE MUNICIPALITY OF CLARINGTON

Per: _____
Jim Abernethy, Mayor

Per: _____
Patti L. Barrie, Clerk

Schedule "A"

Legal Description of Proposed Site of EFW Facility

Part of Lot 27, Concession Broken Front, Darlington, designated as Parts 1 and 2 on 40R-19984, save and except Parts 1 and 2 on 40R-20362, Municipality of Clarington, Regional Municipality of Durham, being all of PIN 26605-0082(LT)

Schedule "B"

Legal Description of Lands Proposed to be acquired

FIRSTLY: PT LTS 27 & 28 BROKEN FRONT CONCESSION, DARLINGTON, AS IN N41298 SAVE & EXCEPT PART 1 PL 40R21517 NORTH OF THE CANADIAN NATIONAL RAILWAY; MUNICIPALITY OF CLARINGTON, REGIONAL MUNICIPALITY OF DURHAM, being all of PIN 26605-0086 (LT)

SECONDLY: PT LT 28 BROKEN FRONT CONCESSION, DARLINGTON BEING PTS 2 & 3 on 10R2689; MUNICIPALITY OF CLARINGTON, REGIONAL MUNICIPALITY OF DURHAM, being all of PIN 26605-0030 (LT)

THIRDLY: PT LT 28 BROKEN FRONT CONCESSION, DARLINGTON being PT 1, 10R2689; MUNICIPALITY OF CLARINGTON, REGIONAL MUNICIPALITY OF DURHAM, being all of PIN 26605-0031 (LT)

Schedule "C"

Legal Description of Lands to be Transferred to Clarington

FIRSTLY: PT LT 29 AND 30 BROKEN FRONT CONCESSION, DARLINGTON being PTS 1, 2, AND 3, 40R20750; MUNICIPALITY OF CLARINGTON, REGIONAL MUNICIPALITY OF DURHAM, being all of PIN 26604-0017 (LT)

SECONDLY: PT LT 29 BROKEN FRONT CONCESSION, DARLINGTON being PT 1 on 10R571; MUNICIPALITY OF CLARINGTON, REGIONAL MUNICIPALITY OF DURHAM, being all of PIN 26604-0016 (LT)



ATTACHMENT 3

Proof of Legal Name



Nova Scotia

CERTIFICATE OF REGISTRATION

Limited Partnerships Act

Registry Number

3246299

Name of Registration

COVANTA DURHAM YORK RENEWABLE ENERGY LIMITED
PARTNERSHIP

I hereby certify that the above-mentioned limited partnership is registered
under the provisions of the Limited Partnerships Act.

A handwritten signature in black ink, appearing to read "J. S. C.", written over a horizontal line.

Registrar of Joint Stock Companies

June 7, 2010

Date of Registration

RECEIVED

MAY 28 2010

OFFICE OF REGISTRAR
OF JOINT STOCK COMPANIES
NOVA SCOTIA

CERTIFICATE OF LIMITED PARTNERSHIP

Pursuant to the *Limited Partnerships Act*, R.S.N.S. 1989, c.259, as amended

A. Name:

Covanta Durham York Renewable Energy Limited Partnership

B. Nature of Business:

The Partnership will carry on the business of operating energy from waste facilities, including, without limitation, owning, developing, financing, managing, leasing and selling in whole or in part, the energy produced therefrom.

C. Name and Place of Residence of Each Partner:

- (i) Limited Partner: Covanta Burnaby Renewable Energy, Inc., c/o Covanta Energy Corporation, 40 Lane Road, Fairfield, New Jersey, USA 07004
- (ii) General Partner: TransRiver Canada Incorporated, c/o Covanta Energy Corporation, 40 Lane Road, Fairfield, New Jersey, USA 07004

D. Term of Limited Partnership:

The Limited Partnership is to continue until dissolved by agreement of both Partners in accordance with any written agreement, including a partnership agreement, which may be entered into between the partners either before or after the execution of this Certificate.

E. Amount of Cash and Nature and Fair Value of Other Property, if any, Contributed by Each Limited Partner:

To subscribe for units in the Limited Partnership, a Partner must acquire at least one (1) investment unit at \$0.01 each. The Partner shall pay \$0.01 per unit upon the signing of a subscription for a unit and the Limited Partnership shall be entitled to the said subscription price on the date of acceptance of the subscription by the General Partner.

The following cash or property in lieu of cash has been contributed to date:

Name	# of Units	Paid by Cash	Property at Fair Market Value
TransRiver Canada Incorporated	1	\$0.01	N/A
Covanta Burnaby Renewable Energy, Inc.	99	\$0.99	N/A

F. Amount of Additional Contributions, if any, Agreed to be Made by Each Limited Partner and the Times at which or Events or the Happening of Which an Additional Contribution Needs to be Made:

There is no requirement for an existing Limited Partner to make additional contributions or purchase additional Units. The General Partner may issue additional units to raise additional capital only if the same is agreed to in writing by the parties hereto.

G. Time When Contributions Will be Returned to Members:

Capital contributions shall be returned upon dissolution; however, the General Partner, in its sole discretion, may determine when capital may be returned in whole or in part to the Limited Partners.

H. The Share of the Profits or Other Compensation by Way of Income Which Each Limited Partner is Entitled to by Reason of his Contribution:

Allocations of the net income and net loss are made on the basis of one percent (1%) to the General Partner and ninety-nine percent (99%) to the Limited Partner.

I. Can the Interest of a Limited Partner be Assigned:

The interest of a Limited Partner can be assigned only with the consent of the General Partner, which may not be unreasonably withheld.

J. Can Additional Limited Partners be Admitted:

Additional Limited Partners can be admitted only with the prior consent of the General Partner and all Limited Partners at the time.

K. Priorities, If Any, on Return of Contributions or Income to Limited Partners:

No unit shall have a preference or right over any other unit.

L. Right of General Partner to Continue Business:

A corporate successor to the General Partner may continue the business of the Limited Partnership.

M. Other Right, If Any, of Limited Partner to Receive Property Other Than Cash in Return for Its Contribution:

A Limited Partner is not entitled to receive property other than cash in return for its contribution.

DATED this 20th day of May, 2010.

**TRANSRIVER CANADA
INCORPORATED**

Per: Kirkland J. Bily
Kirkland J. Bily,
Ass't Secretary

**COVANTA BURNABY RENEWABLE
ENERGY, INC.**

Per: Kirkland J. Bily
Kirkland J. Bily,
Ass't Secretary



ATTACHMENT 4

Zoning and Land Use



SITE LOCATION AND LAND-USE

The Facility will be situated on undeveloped land, which is owned by the Region of Durham in the Municipality of Clarington. The site is 12.1 hectares in size and is located in the Clarington Energy Business Park south of Highway 401. The site is located on the west side of Osbourne Road, north of the CN Rail corridor. The closest commercial property is Manheim's Auto Auction, north of the Site, and Coparts Auto Auction, east of the Site, both of which are located within 1 km of the Site. The lands east and west of the Site are mostly undeveloped and are currently used for agricultural purposes. The Courtice WPCP is located directly south of the Site, and the Darlington Nuclear Generating Station is located approximately 1.8 kilometres to the east. The nearest major intersection is Highway 401 and Courtice Road, which is about 1.7 kilometres from the Site. A Site location plan is provided as Figure 1. The legal survey for the Site is shown in Figure 3.

The information provided below outlines the regional and local land use designations and zoning applicable to the site.

The Land Use Designation Plan and Zoning for the Site and surrounding area are provided in Figures 4 through 7. In general, the official plan and zoning designations of this site permits a waste to energy facility. Amendments to the Regional Municipality of Durham Official Plan, the Municipality of Clarington Official Plan (and corresponding Secondary Plan), and the Municipality of Clarington Zoning By-Law 84-63 are not required to permit the proposed municipal Facility. The Regional Municipality of Durham signed a Community Host Agreement with the Municipality of Clarington to host the Facility.

Official Plan of the Regional Municipality of Durham (Figure 4):

Designation: Urban System - Employment Area

Municipality of Clarington Official Plan (Figure 5):

Designation: Employment Areas - Business Park

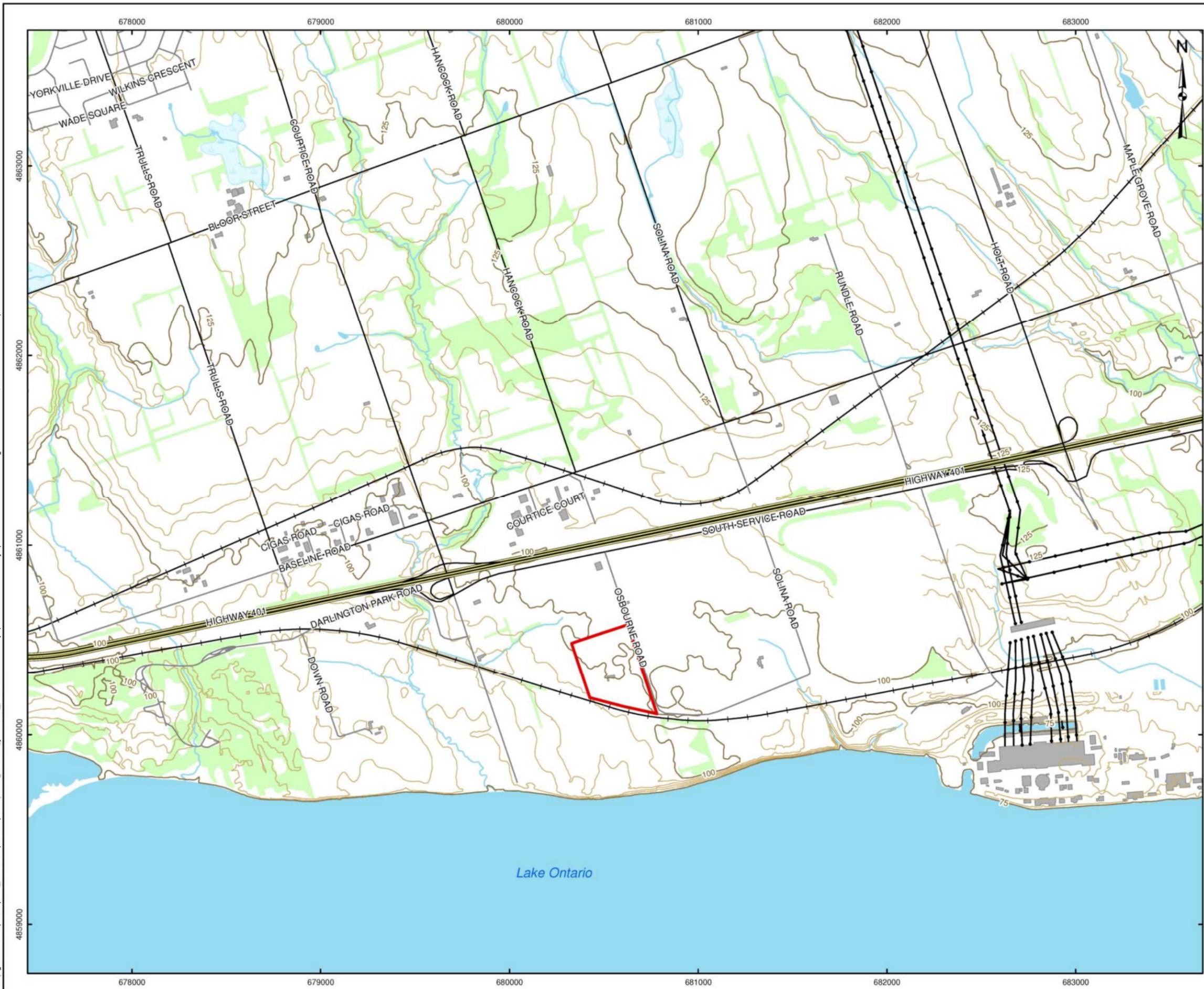
Clarington Energy Business Park Secondary Plan (Figure 6):

Designation: Light Industrial 1 (north portion of the site) and Light Industrial 2 (southern portion of the Site)

Municipality of Clarington Zoning By-Law 84-63 (Figure 7):

Designation: Energy Park Light Industrial ((H) ML1) Zone and Energy Park General Industrial ((H) ML2) Zone

Drawing: file: (N:\CAD\PROJECTS\2010\10-1151-0343 (Covanta) (Durham-York)\AA-EFW Facility\1011510343AA01.dwg Jan 31, 2011 - 2:03pm



LEGEND

- Major Contour (25 m)
- Minor Contour (5 m)
- Expressway
- Highway
- Major Road
- Local Road
- Railway
- Utility Line
- Watercourse
- Waterbody
- Wetland
- Woodlot
- Building Footprint
- Approximate Site Boundary



REFERENCE

Base Data - MNR NRVIS, obtained 2004, CANMAP v2006.4
 Produced by Golder Associates Ltd under licence from
 Ontario Ministry of Natural Resources, © Queens Printer 2008
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17N



PROJECT			
Durham York Energy Centre			
TITLE			
SITE LOCATION PLAN			
 Golder Associates Mississauga, Ontario	PROJECT NO.	10-1151-0343	SCALE AS SHOWN
	DESIGN	PRM 25 Aug. 2010	REV. 0.0
	GIS	PRM 10 Jan. 2011	
	CHECK	KA 10 Jan. 2011	
	REVIEW	PN 10 Jan. 2011	

FIGURE 1



I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

PLAN 40R-26782
RECEIVED AND DEPOSITED

DATE Dec. 1, 2010 DATE Dec. 1/10
G.C. Laframboise "P. JOHNSON" A.O.C.
 G.C. LAFRAMBOISE LAND REGISTRAR FOR THE
 ONTARIO LAND SURVEYOR LAND TITLES DIVISION OF DURHAM
 (No 40)

SCHEDULE				
PART	PART OF LOT	CONCESSION	ALL OF PIN	AREA ha.
I	27	BROKEN FRONT CONCESSION	26605-0082	13.220

PLAN OF SURVEY OF
PART OF LOT 27
BROKEN FRONT CONCESSION
 (GEOGRAPHIC TOWNSHIP OF DARLINGTON)
 NOW IN THE
MUNICIPALITY OF CLARINGTON
 MUNICIPALITY OF DURHAM

SCALE 1:1000

J. D. BARNES LIMITED

METRIC DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NOTES

BEARINGS ARE GRID, DERIVED FROM SPECIFIED CONTROL POINTS (SCP4) 00B9860597 AND 00B9860598, UTM ZONE 17, NAD83 (ORIGINAL).
 DISTANCES ON THIS PLAN ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99999155.

INTEGRATION DATA

SPECIFIED CONTROL POINTS (SCP4): UTM ZONE 17, NAD83 (ORIGINAL).

COORDINATE VALUES ARE TO AN URBAN ACCURACY IN ACCORDANCE WITH SECTION 14 (2) OF O.REG 216/10.

POINT ID	EASTING	NORTHING
SCP 00B9860597	680 826.940	4 861 038.345
SCP 00B9860598	681 188.771	4 861 114.772

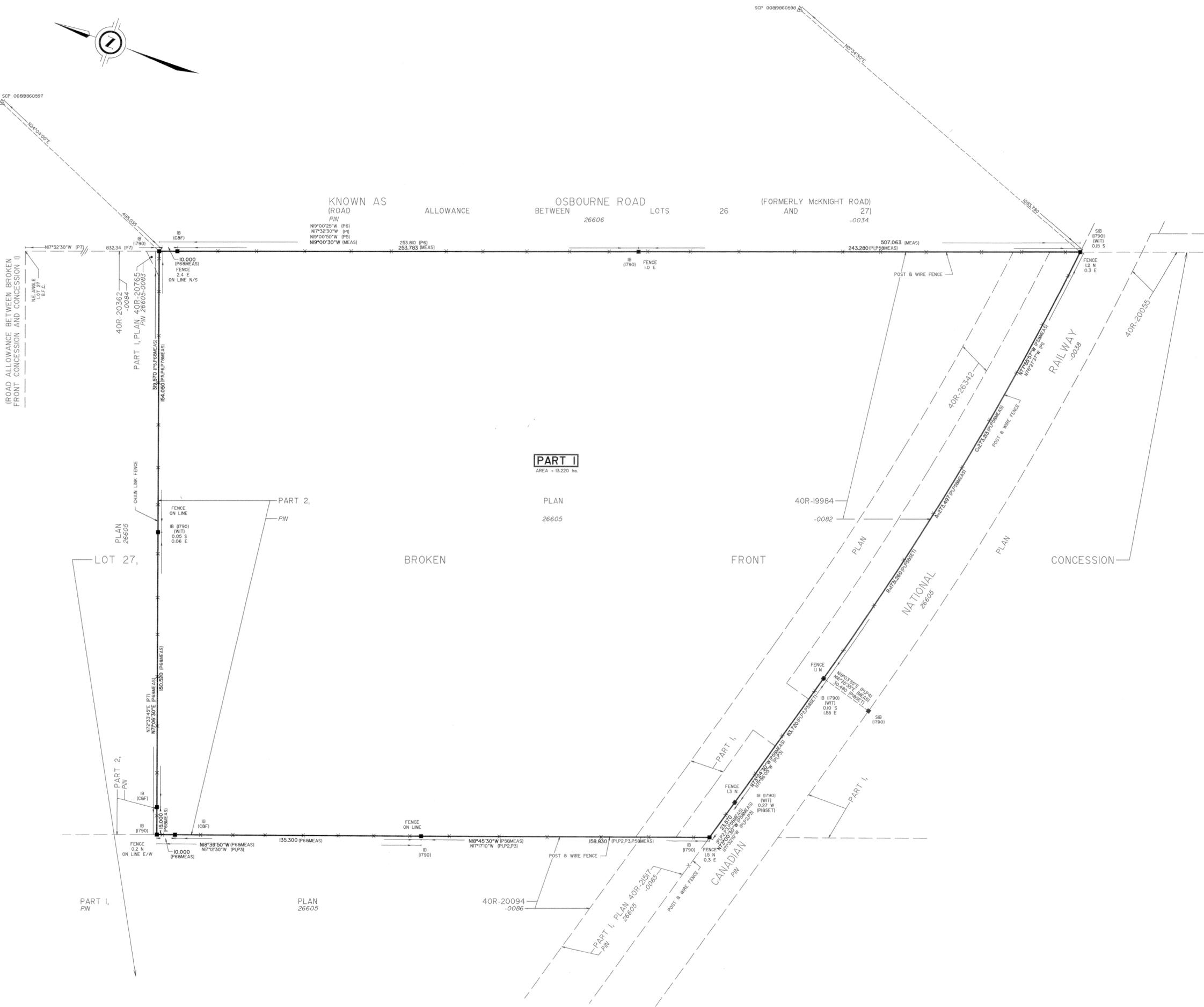
COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

■	DENOTES	SURVEY MONUMENT FOUND
□	DENOTES	SURVEY MONUMENT SET
△	DENOTES	CONTROL MONUMENT FOUND
SIB	DENOTES	STANDARD IRON BAR
IB	DENOTES	IRON BAR
SCP	DENOTES	SPECIFIED CONTROL POINT
WIT	DENOTES	WITNESS
MEAS	DENOTES	MEASURED
JDB	DENOTES	J.D. BARNES LIMITED
1790	DENOTES	A.V. FLIM, O.L.S.
CBF	DENOTES	COUTTS & FLIM SURVEYING INC., O.L.S.
P1	DENOTES	PLAN 40R-19984
P2	DENOTES	PLAN 40R-2157
P3	DENOTES	PLAN 40R-20094
P4	DENOTES	PLAN 40R-20055
P5	DENOTES	PLAN 40R-26342
P6	DENOTES	PLAN OF SURVEY BY COUTTS & FLIM SURVEYING INC. DATED APRIL 28, 2010.
P7	DENOTES	PLAN 40R-20362

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:
 1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
 2. THE SURVEY WAS COMPLETED ON NOVEMBER 23, 2010.

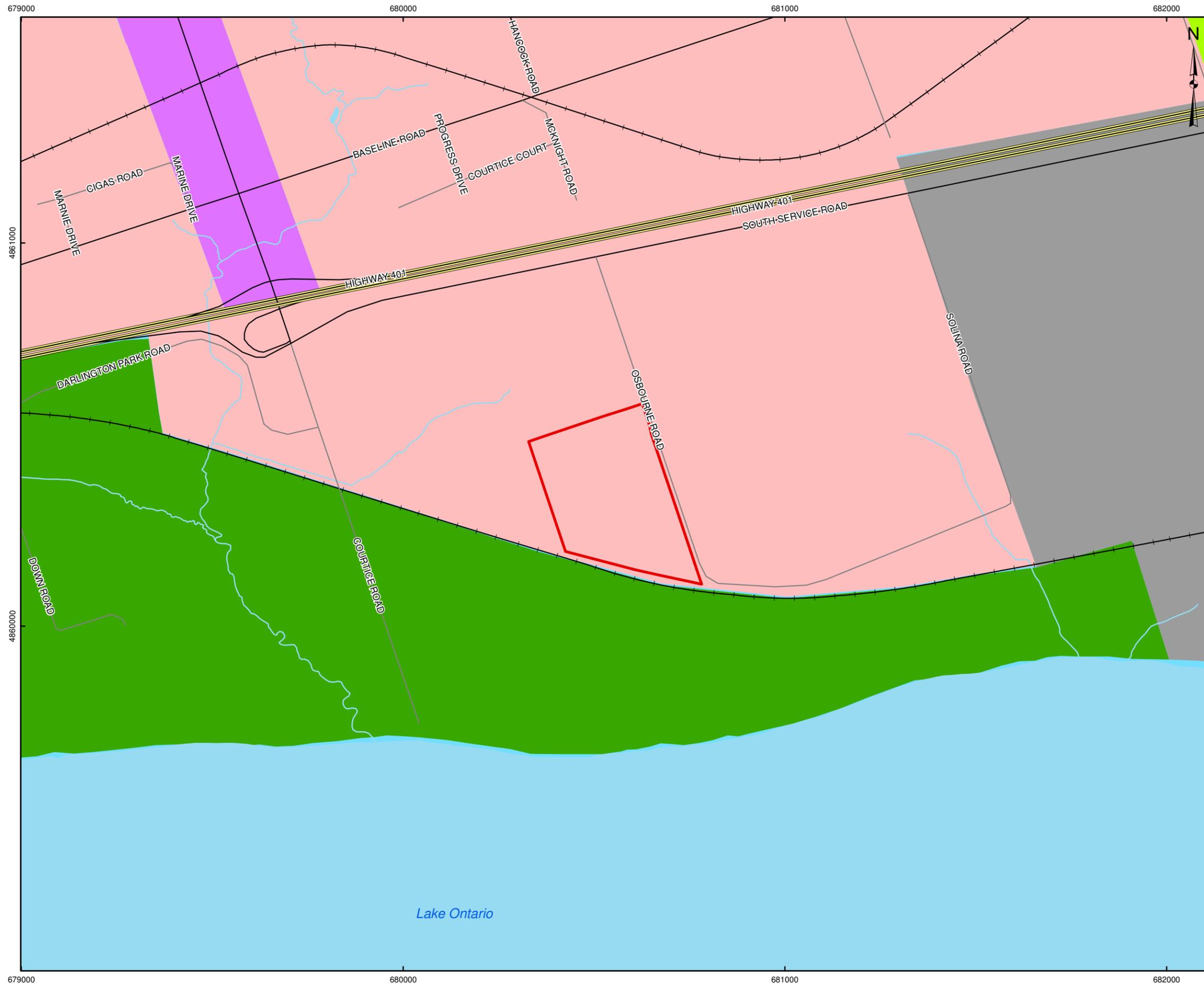
DATE Nov. 26, 2010 *G.C. Laframboise*
 G.C. LAFRAMBOISE
 ONTARIO LAND SURVEYOR



J.D. BARNES SURVEYING PLANNING LIMITED MAPPING GIS

LAND INFORMATION SPECIALISTS
 110 SCOTIA COURT, #40 WHITBY, ON L1N 8Y7
 T: (905) 723-1212 F: (905) 723-4234 www.jdbarnes.com

DRAWN BY: F.B.J.	CHECKED BY: G.C.L.	REFERENCE NO.: 07-25-015-08
FILE: g:\72501508\72501508-rpl.dgn	DATED: NOVEMBER 26, 2010	PLOTTED: 01 DEC 2010



LEGEND

- Expressway
- Highway
- Major Road
- Local Road
- Railway
- Watercourse
- Waterbody
- Approximate Site Boundary
- Durham Region Land Use**
- Employment Areas
- Regional Corridor
- Major Open Space Area
- Waterfront Areas
- Darlington Nuclear Generating Station



REFERENCE

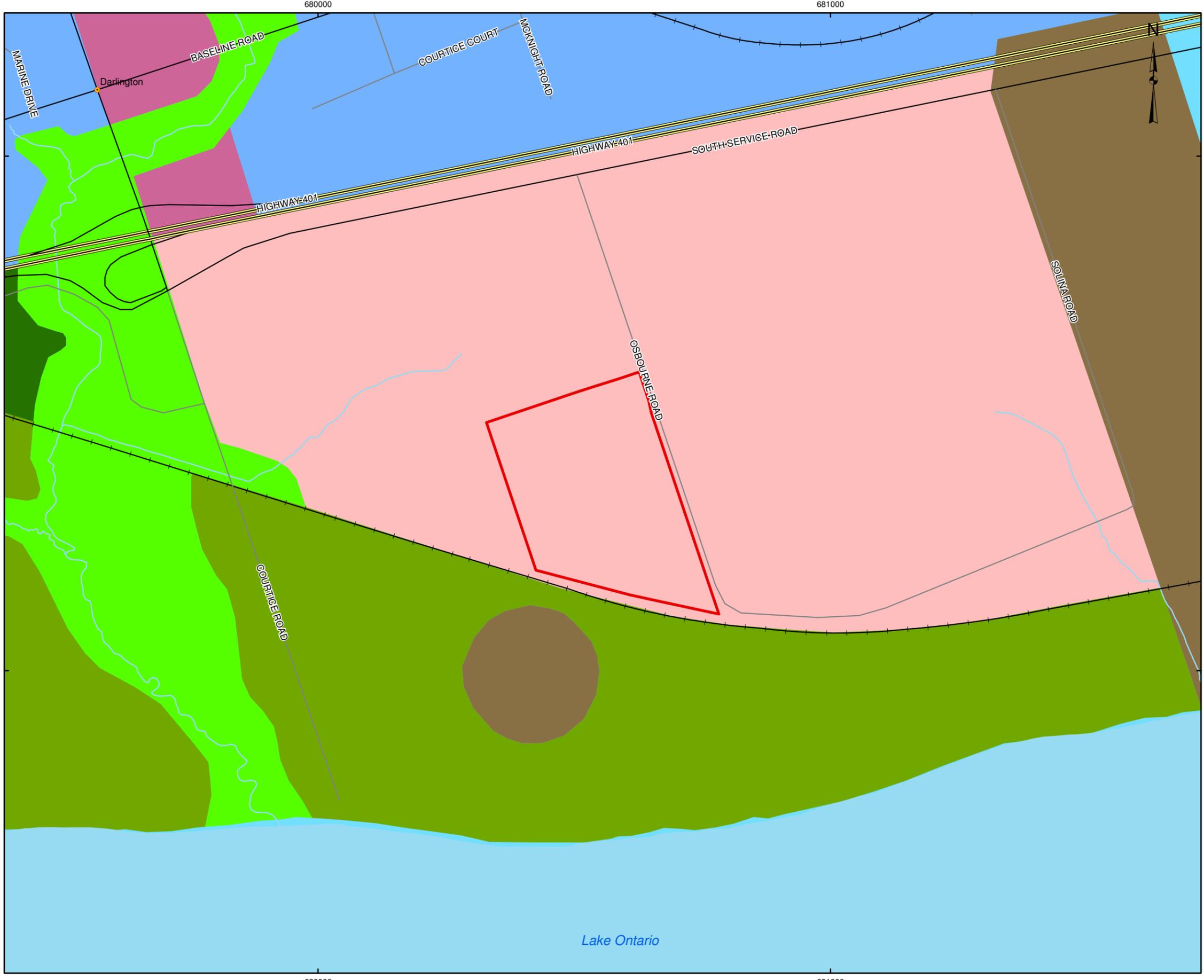
Base Data - MNR NRVIS, obtained 2004, CANMAP v2006.4
 Land Use - Durham Region (June 2009)
 Produced by Golder Associates Ltd under licence from
 Ontario Ministry of Natural Resources, © Queens Printer 2008
 Landuse data from Durham/York Residual Waste Study
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17N



PROJECT			
DURHAM YORK ENERGY CENTRE			
TITLE			
DURHAM REGION OFFICIAL PLAN LAND USE			
	PROJECT NO. 10-1151-0343		SCALE AS SHOWN
	DESIGN	PRM	25 Aug. 2010
	GIS	PRM	2 Feb. 2011
	CHECK	MK	2 Feb. 2011
	REVIEW	PN	2 Feb. 2011
FIGURE: 4			

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LEGEND

- Expressway
 - Highway
 - Major Road
 - Local Road
 - Railway
 - Watercourse
 - Waterbody
 - Approximate Site Boundary
- Municipality of Clarington Land Use
- Business Park
 - Environmental Protection
 - General Agriculture
 - General Industrial
 - Green Space
 - Light Industrial
 - Prestige Employment
 - Utility
 - Waterfront Greenway

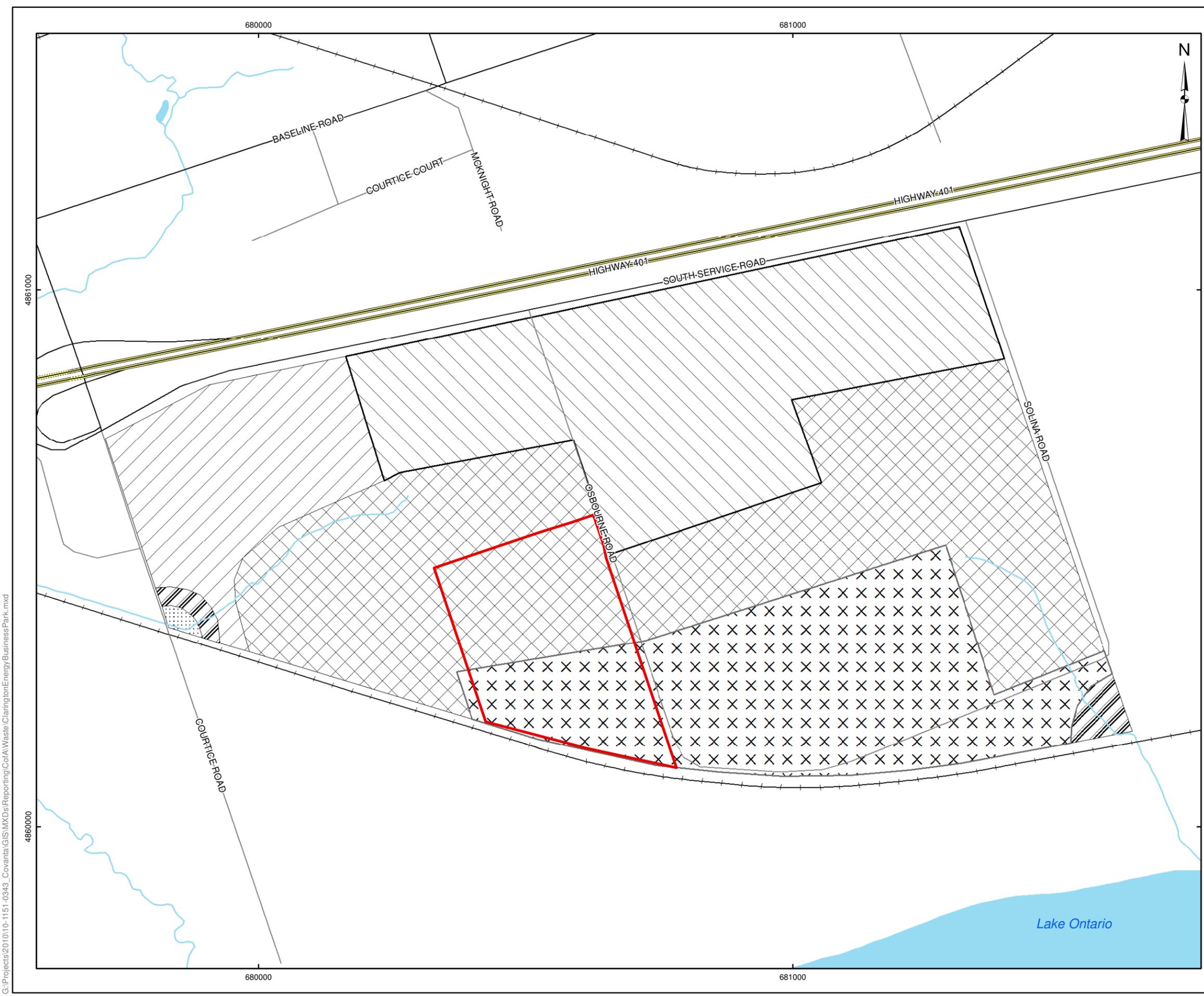


REFERENCE

Base Data - MNR NRVIS, obtained 2004, CANMAP v2006.4
 Landuse - Municipality of Clarington Official Plan - Map A2 (January 2010)
 Produced by Golder Associates Ltd under licence from
 Ontario Ministry of Natural Resources, © Queens Printer 2008
 Landuse data from Durham/York Residual Waste Study
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17N



PROJECT		DURHAM YORK ENERGY CENTRE	
TITLE		MUNICIPALITY OF CLARINGTON OFFICIAL PLAN LAND USE	
Golder Associates Mississauga, Ontario	PROJECT NO.	10-1151-0343	SCALE AS SHOWN
	DESIGN	PRM 25 Aug. 2010	REV. 0.0
	GIS	PRM 2 Feb. 2011	FIGURE: 5
	CHECK	MK 2 Feb. 2011	
REVIEW	PN 2 Feb. 2011		



LEGEND

- Expressway
- Highway
- Major Road
- Local Road
- Railway
- Watercourse
- Waterbody
- Approximate Site Boundary

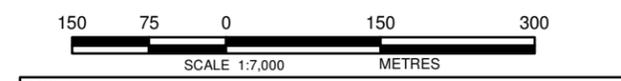
Clarington Energy Business Park Land Use

- Environmental Protection Area
- Light Industrial 1
- Light Industrial 2
- Open Space
- Prestige Employment Corridor
- Prestige Employment Node



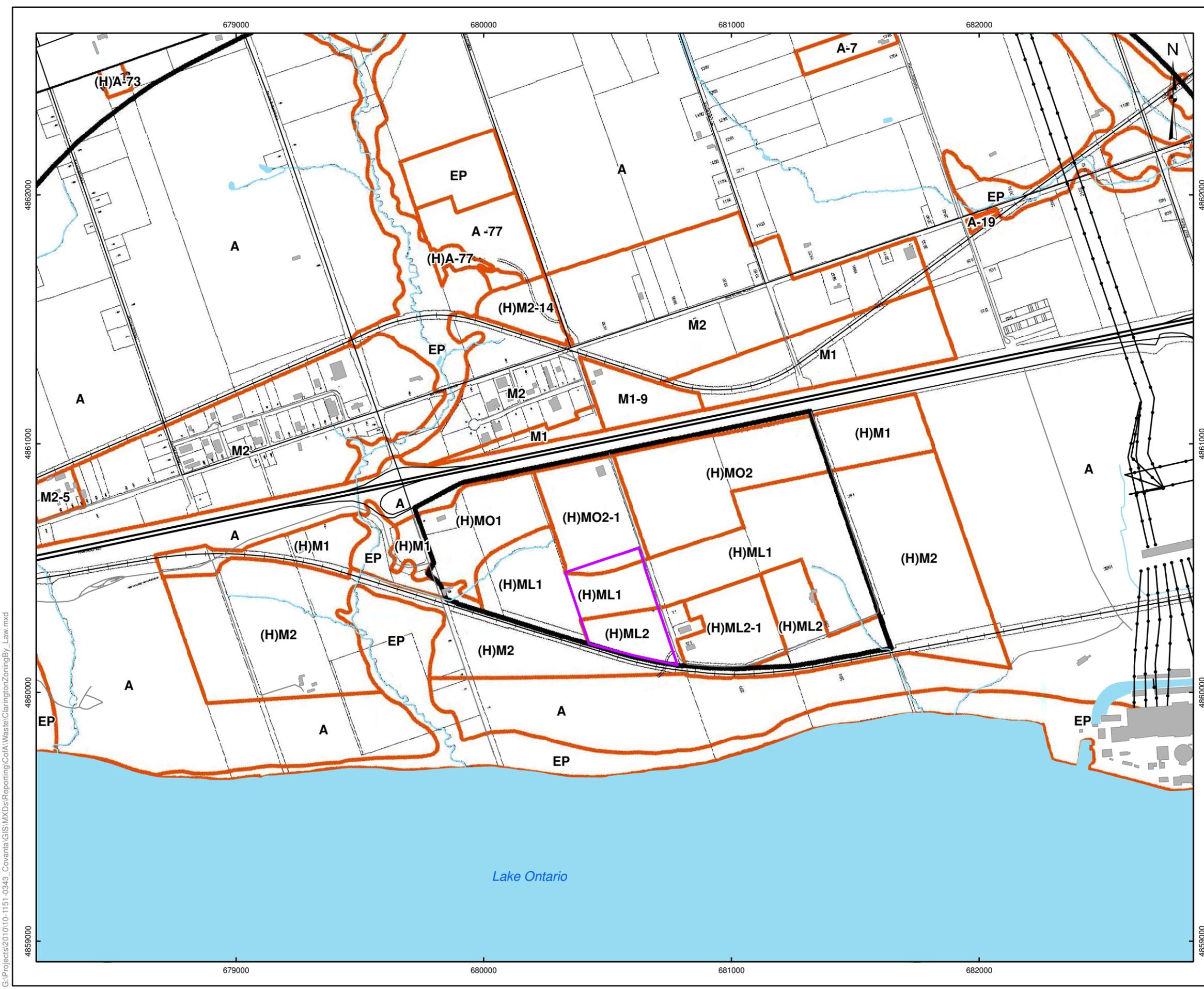
REFERENCE

Base Data - MNR NRVIS, obtained 2004, CANMAP v2006.4
 Land Use - Municipality of Clarington (January 2010)
 Produced by Golder Associates Ltd under licence from Ontario Ministry of Natural Resources, © Queens Printer 2008
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17N



PROJECT		DURHAM YORK ENERGY CENTRE	
TITLE		CLARINGTON ENERGY BUSINESS PARK SECONDARY PLAN LANDUSE	
 Golder Associates Mississauga, Ontario	PROJECT NO.	10-1151-0343	SCALE AS SHOWN
	DESIGN	PRM	25 Aug. 2010
	GIS	PRM	2 Feb. 2011
	CHECK	MK	2 Feb. 2011
	REVIEW	PN	2 Feb. 2011
			FIGURE: 6

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LEGEND

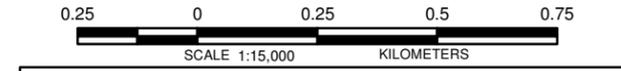
- Highway
- Major Road
- Local Road
- Railway
- Utility Line
- Watercourse
- Waterbody
- Building Footprint
- Approximate Site Boundary
- Zoning

A - Agricultural
 M1 - Light Industrial
 M2 - General Industrial
 MO1 - Energy Park Office
 MO2 - Energy Park Prestige
 ML1 - Energy Park Light Industrial
 ML2 - Energy Park General Industrial
 EP - Environmental Protection



REFERENCE

Base Data - MNR NRVIS, obtained 2004, CANMAP v2006.4
 Zoning - The Town of Newcastle Zoning By-Law 84-63
 Produced by Golder Associates Ltd under licence from Ontario Ministry of Natural Resources, © Queens Printer 2008
 Projection: Transverse Mercator Datum: NAD 83 Coordinate System: UTM Zone 17N



PROJECT			
DURHAM YORK ENERGY CENTRE			
TITLE			
MUNICIPALITY OF CLARINGTON ZONING BY-LAW			
 Golder Associates Mississauga, Ontario	PROJECT NO. 10-1151-0343	SCALE AS SHOWN	REV. 0.0
	DESIGN PRM 25 Aug. 2010		
	GIS PRM 2 Feb. 2011		
	CHECK MK 2 Feb. 2011		
	REVIEW PN 2 Feb. 2011		
			FIGURE: 7

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As a global, employee-owned organisation with over 50 years of experience, Golder Associates is driven by our purpose to engineer earth's development while preserving earth's integrity. We deliver solutions that help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

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