



The Regional Municipality of Durham

COUNCIL INFORMATION PACKAGE

October 9, 2020

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- 2020-INFO-89** Commissioner of Planning and Economic Development - re: Monitoring of Land Division Committee Decisions of the July 20, 2020 and August 17, 2020 meeting and Consent Decisions made by the Commissioner of Planning and Economic Development
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4. Memorandum from Gioseph Anello, Director, Waste Management Services, Durham Region, and Laura McDowell, Director, Environmental Promotion and Protection, York Region, and Matthew Neild, Facility Manager, Covanta Durham York Renewable Energy Limited Partnership – re: Durham/York Energy from Waste Project, Third Party Independent Audit Report - Operation Year 2019

Durham Municipalities Correspondence

1. City of Pickering – re: Resolution passed at their Council meeting held on September 28, 2020, regarding recommendations on the Draft Carruthers Creek Watershed Plan 2020-2030 prepared by the Toronto and Region Conservation Authority
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There are no Other Municipalities Correspondence/Resolutions

Miscellaneous Correspondence

1. Monica Nikopoulos, Stoney Creek resident – re: Submitting for review by Council, research on 5G wireless technology's impact on public health and the environment
2. Jim Abernethy, Clarington resident – re: Anaerobic Digestion (AD) Project – RFQ Process – Region of Durham

Advisory Committee Minutes

There no Advisory Committee Minutes

Members of Council – Please advise the Regional Clerk at clerks@durham.ca, if you wish to pull an item from this CIP and include on the next regular agenda of the appropriate Standing Committee. Items will be added to the agenda if the Regional Clerk is advised by Wednesday noon the week prior to the meeting, otherwise the item will be included on the agenda for the next regularly scheduled meeting of the applicable Committee.

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The Regional Municipality of Durham Information Report

From: Commissioner of Finance
Report: #2020-INFO-88
Date: October 9, 2020

Subject:

2019 Annual Investment Report

Recommendation:

Receive for information

Report:

1. Purpose

- 1.1 In accordance with the *Municipal Act, 2001, Ontario Regulation 438/97*, and the Region's "Statement of Investment Policy and Goals", the Treasurer is required to report annually on the Region's investment portfolio following the end of each fiscal year, generally to report on performance of the portfolio and its conformity with investment policies and goals.
- 1.2 This report summarizes the performance for the investment portfolio for 2019 and provides the required statement of the Treasurer.

2. Background

- 2.1 The Region's Statement of Investment Policy and Goals sets a low risk tolerance level and the overall investing approach emphasizes security of principal while maintaining liquidity. The policy permits investment in a variety of securities that meet the high credit ratings thresholds established in the policy.
- 2.2 The investment landscape continues to be characterized by low returns as it was in 2018. Consequently, the performance of the Region's investment portfolio reflects the low interest rate vehicles that are available in the investment marketplace.
- 2.3 The Region invests available cash that is not required for immediate use in its operations, reserve funds, and capital program. Earnings from the investment portfolio are allocated to these areas in proportion to the cash balances invested. In short, the investment portfolio is not just comprised of reserve fund holdings.

3. Performance of the Investment Portfolio

Investment Returns

- 3.1 The approved Statement of Investment Policy and Goals specifically recognizes the Region's role as custodian of taxpayer's money, with safeguarding of funds being of utmost importance. The policy also recognizes that trade-offs among investment objectives will occur in order to emphasize security of principal, provide overall liquidity, and, at the same time, maximize investment returns. While investment return is an important measure of the performance of the portfolio, it is a measure that reflects the investment objectives as well as market conditions.
- 3.2 The Region's overall investment returns were higher than those obtained in the prior year. For 2019, the return on the portfolio averaged 2.425% (2018 – 2.02%).
- 3.3 The average rate of return for investments stratified by the remaining term is shown in the following table:

Investment Returns by Remaining Term

Remaining Term of Investment	2019	2018
Less than 6 months	2.63%	2.07%
6 months to 1 year	2.49%	2.28%
1 year up to 5 years	2.48%	2.52%
5 years up to 10 years	4.47%	4.75%
10 years up to 20 years	4.28%	4.26%

Investment Terms

- 3.4 The Statement of Investment Policy and Goals also provides guidelines for the stratification of the Region's portfolio over investment terms ranging from less than six months up to twenty years.
- 3.5 At year end, 76.9% (2018 – 69%) of the value of the portfolio was invested in securities maturing in one year or less, 22.6% (2018 – 30%) of the portfolio was maturing within one to five years and the remaining 0.5% (2018 – 1%) had maturities due beyond five years. There was a shift to shorter investment terms in 2019 due to limited options in the longer term market as noted below.

- 3.6 The liquidity guideline ensures ready access to funds in order to meet the financial obligations of the Region as they come due and suggests a minimum of 50% of the Region's investments should have a term of one year or less. The value of the investment portfolio was well above this minimum target at the end of 2019, largely due to the lack of securities with longer maturities and suitable rates of return.
- 3.7 An additional term-related objective of the policy is to hold all investments until maturity, unless cash flow is required for operational purposes. Regional staff actively monitor cash requirements and inflows to ensure sufficient balances are held for day to day operations. Consequently, all investments continued to be held until maturity, as has been the case in prior years.

Investment Portfolio Composition

- 3.8 The Investment Policy provides general guidelines for minimum and maximum investment targets by type of financial instrument and by issuers, as well as minimum credit ratings for issuers. The portfolio composition at any one point in time tends to reflect the availability of safe investments at rates of return that exceed those being received on surplus operating cash balances.
- 3.9 The composition of the investment portfolio at year end by type of financial institution is shown in the following table:

Investment Portfolio Composition

Financial Institution / Instrument	Guidelines		Actual at Dec 31/19 %
	Target Minimum %	Target Maximum %	
Government of Canada (incl. T-bills)	25	100	0
Provincial Governments	15	50	2.1
Large Urban Municipal Debentures	0	25	2.5
Schedule 1 Banks (GIC's, bonds and high interest accounts)	0	50	93.6
ONE Fund	0	20	1.8

- 3.10 Canadian interest rates remained relatively low in 2019 and investing in high interest accounts and GICs was the main investment vehicles for the Region.
- 3.11 The Investment Policy also permits the Region to invest in its own debt issuances, with the requirement to report such investments in each annual investment report. The following table provides detail of the Region of Durham debentures held in the investment portfolio as at December 31, 2019:

Investment in Own Debt Issues

Broker	Coupon Rate	Maturity Amount	Issue Date	Purchase Date	Maturity Date
RBC	4.588%	\$6,744,556*	Oct. 6/05	Feb. 14/11	Oct. 6/28
RBC	4.15%	\$1,538,000	Oct. 16/13	Oct. 16/13	Oct. 16/29
RBC	4.20%	\$1,602,000	Oct. 16/13	Oct. 16/13	Oct. 16/30
RBC	4.25%	\$1,669,000	Oct. 16/13	Oct. 16/13	Oct. 16/31
RBC	4.30%	\$1,740,000	Oct. 16/13	Oct. 16/13	Oct. 16/32
RBC	4.30%	\$1,814,000	Oct. 16/13	Oct. 16/13	Oct. 16/33

*Amortizing bond – amount will reduce over the term

3.12 The total value of the portfolio at December 31, 2019 was \$2,806,185,470 and the portfolio composition by type of security is summarized in the following table:

Portfolio Composition by Type of Security

Type of Investment	\$ ('000's)	Yield % Range	Maturity Dates
Bonds / Coupons / Deposit Notes / GICs			
Provinces	59,712	2.66 – 3.22	2020 - 2022
Municipalities	72,217	1.33 – 4.75	2020 - 2033
Schedule 1 Banks	1,790,000	2.34 – 3.24	2020 - 2023
High Interest Accounts	884,257	2.30 – 2.55	2020

4. Compliance with Investment Policies and Goals

- 4.1 Internal controls established by Finance Department staff are an integral component in ensuring that all investment transactions are made in accordance with the Region's Statement of Investment Policies and Goals.
- 4.2 The controls include those outlined in the policy as well as the ethics and conflict of interest guidelines. In addition, the Region's investments are reviewed annually by the external auditors.

5. Forecast

- 5.1 At present, in response to the COVID-19 crisis, the Bank of Canada has cut rates to near zero levels and introduced quantitative easing by buying federal, provincial and corporate debt alongside the creation of three liquidity facilities to keep interest rates low and ensure the financial markets are functioning in an efficient manner. This has resulted in increased deposit supply which most of the major financial institutions are now shoring up and are unable to easily deploy into asset (lending book) growth. This has driven interest rates down considerably and they are expected to remain this way for the foreseeable future.
- 5.2 The continued low interest rate environment is expected to depress the investment earnings on the Region's available cash balances, creating a challenge not only for operations but also for the reserve funds and capital program that rely on investment earnings as supplemental funding for tangible capital asset investment.

6. Conclusion

- 6.1 The Region continues to invest in a diversified basket of high credit rated securities that meet the minimum credit rating criteria defined in the policy and deliver a suitable rate of return. Durham Region's investment portfolio composition is in compliance with the Council approved Statement of Investment Policies and Goals.
- 6.2 In my opinion, all investment transactions for 2019 continue to conform to the Region's investment policies and goals as adopted by Regional Council, reflecting a low risk tolerance and overall conservative investing approach to emphasize the security of principal, while maintaining ample liquidity.

Respectfully submitted,

Original Signed by Nancy Taylor

Nancy Taylor, BBA, CPA, CA
Commissioner of Finance

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2564



The Regional Municipality of Durham Information Report

From: Commissioner of Planning and Economic Development
Report: #2020-INFO-89
Date: October 9, 2020

Subject:

Monitoring of Land Division Committee Decisions of the July 20, 2020 and August 17, 2020 meeting and Consent Decisions made by the Commissioner of Planning and Economic Development

Recommendation:

Receive for information

Report:

1. Purpose

- 1.1 This report summarizes the decisions on consent applications made by the Commissioner of Planning and Economic Development pursuant to Regional Delegation By-law 19-2020, and decisions made by the Regional Land Division Committee at its meeting of July 20, 2020 (see Attachment #1) and August 17, 2020 (see Attachment #2). The applications approved by the Commissioner are deemed to be non-controversial in that no comments or concerns were raised during the circulation process. The approved applications conform to the Durham Regional Official Plan. For the applications approved by the Land Division Committee, no appeals to the Local Planning Appeal Tribunal are recommended.
- 1.2 A copy of this report will be forwarded to the Land Division Committee for its information.

2. Attachments

Attachment #1: Monitoring Chart from the July 20, 2020 Meeting and Decisions Delegated to the Commissioner of Planning and Economic Development

Attachment #2: Monitoring Chart from the August 17, 2020 Meeting and
Decisions Delegated to the Commissioner of Planning and
Economic Development

Respectfully submitted,

Original signed by

Brian Bridgeman, MCIP, RPP
Commissioner of Planning and
Economic Development



Monitoring of Land Division Committee Decisions for the Meeting Date of Monday, July 20, 2020

Appeal Deadline: Tuesday, August 18, 2020

LD File Number	Owner	Location	Nature of Application	Regional Official Plan	LDC Decision
LD 124/2018	Gimblett, Michael Gimblett, Susan	Part lot 9, Conc. 2 Municipality of Clarington	Consent to sever a vacant 4,593.9 m ² hamlet lot, retaining a 15,150.2 m ² hamlet lot with an existing dwelling to remain.	Conforms	Approved by Commissioner
LD 164/2019	Hyslop, Jillian	Part lot 30, Conc. BFC City of Pickering	Consent to sever a vacant 1.439 ha industrial parcel of land, retaining a 3.032 ha industrial parcel of land with existing structures.	Conforms	Approved by Committee unanimously
LD 045/2020	Phoenix, Daryl	Part lot 19, Conc. 12 Twp. of Brock	Consent to sever a vacant 12.6 ha agricultural parcel of land, retaining a 14.3 ha agricultural parcel of land with existing dwellings to remain.	Conforms	Approved by Committee unanimously
LD 046/2020	Cooper, Robyn	Part lot 27, Conc. 1 Municipality of Clarington	Consent to add a vacant 49 m ² residential parcel to the north, retaining a 1,173.3 m ² residential parcel of land with an existing dwelling to remain.	Conforms	Approved by Commissioner
LD 048/2020	Volpentesta, Stephanie	Part lot 15, Conc. 4 City of Oshawa	Consent to add a 0.032 ha non-farm related rural residential parcel of land to the west, retaining a 1.162 ha non-farm related rural residential parcel of land.	Conforms	Approved by Commissioner

LD File Number	Owner	Location	Nature of Application	Regional Official Plan	LDC Decision
LD 049/2020	Sareon, Gurdip Sareon, Jasbir	Part lot 16, Conc. 3 Twp. of Uxbridge	Consent to sever 3,300 m2 residential parcel of land, retaining a 3,019 m2 residential parcel of land with an existing dwelling to remain.	Conforms	Approved by Commissioner
LD 050/2020	Veltri, Mario	Part lot 11, Conc. 2 Municipality of Clarington	Consent to sever a 285.1 m2 residential parcel of land retaining, a 320.6 m2 residential parcel of land with an existing dwelling to remain.	Conforms	Approved by Commissioner
LD 051/2020	Willowtree Farms Inc.	Part lot 9 -11, Conc. 5 Twp. of Scugog (former Reach)	Consent to add a 9.3 ha agricultural parcel of land to the east, retaining a 0.724 ha residential parcel of land. Application is for the severance of a surplus farm dwelling.	Conforms	Approved by Commissioner
LD 052/2020	Werry, Kevin Werry, Diane	Part lot 13, Conc. 8 Municipality of Clarington (former Darlington)	Consent to sever a vacant 0.41 ha agricultural parcel of land, retaining a 21.9 ha agricultural parcel of land.	Conforms	Approved by Commissioner
LD 053/2020	Gilbert, Gregory Raso, Antonio Raso, Jennifer Megan Raso, Santo	Part lot 6, Conc. PLN634 Municipality of Clarington	Consent to add a vacant 0.305 ha residential parcel of land to the west, retaining a 0.88 ha residential parcel of land.	Conforms	Approved by Committee unanimously
LD 054/2020	Franssen, Margot Maria	Part lot 17, Conc. 4 Twp. of Brock	Consent to add a vacant 1,879.3 m2 residential parcel of land to the north, retaining a 4,395.95 m2 residential parcel of land.	Conforms	Approved by Commissioner
LD 055/2020	Danayan, Vicken	Part lot 8 City of Oshawa	Consent to sever a 364.21 m2 residential parcel of land, retaining a 396.74 m2 residential parcel of land.	Conforms	Approved by Commissioner

LD File Number	Owner	Location	Nature of Application	Regional Official Plan	LDC Decision
LD 056/2020	7902468 Canada Inc. C/O Triovest	Part lot 25, Conc. 4 Town of Whitby	Consent to sever a 0.9 ha commercial parcel of land, retaining a 3.81 ha commercial parcel of land. Application includes easement.	Conforms	Approved by Commissioner
LD 057/2020	7902468 Canada Inc. C/O Triovest	Part lot 25, Conc. 4 Town of Whitby	Consent to grant a 3.508 ha access easement over a commercial parcel of land, retaining a 0.9 ha commercial parcel of land.	Conforms	Approved by Commissioner
LD 058/2020	Warsh, Steven	Part lot 21, Conc. 1 City of Pickering	Consent to add a vacant 0.002 ha parcel of land and 0.016 ha below grade parcel of land to the parcel to the north, retaining a vacant 0.016 ha residential parcel of land.	Conforms	Approved by Commissioner
LD 059/2020	Warsh, Steven	Part lot 21, Conc. 1 City of Pickering	Consent to add a vacant 0.033ha parcel of land and 0.043 ha below grade parcel of land to the parcel to the north, retaining a vacant 0.411 ha residential parcel of land.	Conforms	Approved by Commissioner
LD 060/2020	Warsh, Steven	Part lot 21, Conc. 1 City of Pickering	Consent to sever a vacant 0.41 ha parcel of land and 0.0413 ha below grade parcel of land, retaining a vacant 1.678 ha residential parcel of land.	Conforms	Approved by Commissioner
LD 061/2020	Warsh, Steven	Part lot 21, Conc. 1 City of Pickering	Consent to sever a vacant 0.503 ha parcel of land and 0.514 ha below grade parcel of land, retaining a vacant 1.175 ha residential parcel of land.	Conforms	Approved by Commissioner

LD File Number	Owner	Location	Nature of Application	Regional Official Plan	LDC Decision
LD 062/2020	Bertucci, Enzo	Part lot 16, Conc. 1 Municipality of Clarington	Consent to grant a 0.064 ha access easement in favour of the land to the east, retaining a vacant 2.401 ha residential parcel of land.	Conforms	Approved by Commissioner



Monitoring of Land Division Committee Decisions for the Meeting Date of Monday, August 17, 2020

Appeal Deadline: Tuesday, September 15, 2020

LD File Number	Owner	Location	Nature of Application	Regional Official Plan	LDC Decision
LD 072/2019	Abbott, Ray	Part lot 20, Conc. 9 Town of Whitby	Consent to sever a vacant 8,738 m2 hamlet residential parcel of land, retaining a vacant 41,072 m2 hamlet residential parcel of land.	Conforms	Approved by Commissioner
LD 073/2019	Abbott, Ray	Part lot 20, Conc. 9 Town of Whitby	Consent to sever a vacant 8,097 m2 hamlet residential parcel of land, retaining a vacant 32,975 m2 hamlet residential parcel of land.	Conforms	Approved by Commissioner
LD 074/2019	Abbott, Ray	Part lot 20, Conc. 9 Town of Whitby	Consent to sever a vacant 8,095 m2 hamlet residential parcel of land, retaining a vacant 24,880 m2 hamlet residential parcel of land.	Conforms	Approved by Commissioner
LD 075/2019	Abbott, Ray	Part lot 20, Conc. 9 Town of Whitby	Consent to sever a vacant 14,963 m2 hamlet residential parcel of land, retaining a vacant 9,917 m2 hamlet residential parcel of land.	Conforms	Approved by Commissioner
LD 023/2020	Bridge, William DeCosta, Bonnie & Mark	Part lot 3, Conc. 6 Twp. of Scugog	Consent to add a 1,421 m2 vacant non-farm related rural residential parcel of land to the north, retaining a 188,605 m2 non-farm related rural residential parcel of land with an existing dwelling to remain.	Conforms	Approved by Commissioner

LD File Number	Owner	Location	Nature of Application	Regional Official Plan	LDC Decision
LD 039/2020	9756752 Canada Inc.	Part lot 7, Conc. BFC Municipality of Clarington	Consent to sever a vacant 21,499.9 m2 industrial parcel of land, retaining a vacant 25,040 m2 industrial parcel of land. Application includes easement.	Conforms	Approved by Commissioner
LD 040/2020	9756752 Canada Inc.	Part lot 7, Conc. BFC Municipality of Clarington	Consent to grant a 716 m2 servicing easement in favour of the land to the west over an industrial parcel of land, retaining a 20783.9 m2 industrial parcel of land.	Conforms	Approved by Commissioner
LD 063/2020	Bridge, William DeCosta, Bonnie & Mark	Part lot 3, Conc. 6 Twp. of Scugog	Consent to add a 1,413 m2 vacant non-farm related rural residential parcel of land to the west, retaining a 12,194 m2 non-farm related rural residential parcel of land with an existing dwelling to remain.	Conforms	Approved by Commissioner
LD 065/2020	Bolahood, Barry	Part lot 14, Conc. 1 Municipality of Clarington	Consent to sever a vacant 534 m2 residential parcel of land, retaining a 568 m2 residential parcel of land.	Conforms	Approved by Commissioner
LD 066/2020	Vander Schaaf, Paul	Part lot 22, Conc. BF Town of Whitby	Consent to sever a 42,691.4 m2 industrial parcel of land, retaining a 44,325.4 m2 industrial parcel of land with an existing building. Application includes easement.	Conforms	Approved by Commissioner
LD 067/2020	Vanhaverbeke, Edmond	Part lot 28, Conc. 2 Municipality of Clarington	Consent to add a vacant 189.9 m2 residential parcel of land to the east, retaining a 580 m2 residential parcel of land with an existing dwelling to remain.	Conforms	Approved by Commissioner

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3111



The Regional Municipality of Durham Information Report

From: Commissioner & Medical Officer of Health
Report: #2020-INFO-90
Date: October 9, 2020

Subject:

Regional Municipality of Durham's Engagement with Ontario Health Teams

Recommendation:

Receive for information

Report:

1. Purpose

- 1.1 To provide an update on the status of approved Ontario Health Teams (OHTs) that will provide service to Durham Region residents.
- 1.2 To report on the engagement of Regional Municipality of Durham (RMD) staff with OHTs and the establishment of Collaborative Decision-Making Agreements (CDMAs).

2. Background

- 2.1 In 2019, the Province established Ontario Health as part of its mandate to “end hallway medicine”. Subsequently the Province accepted applications from health care organizations to become OHTs to establish a “new way of organizing and delivering health care that is more connected to patients in their local communities”.
- 2.2 As of September 2020, there are 29 approved OHTs in Ontario. Two of these OHTs are responsible for populations within Durham Region:
 - a. Durham OHT, led by Lakeridge Health, provides services to Ajax, Clarington, Oshawa, Pickering, Scugog, Whitby
 - b. Eastern York Region North Durham OHT, led by Markham Stouffville Hospital, provides services to Brock and Uxbridge

- 2.3 The Brock Community Health Centre is contributing, as a partner, to the Kawartha Lakes OHT application which may have an impact on services to Township of Brock residents.
- 2.4 Region of Durham Paramedic Services (RDPS) and the Social Services Department (SSD) were involved in the early stages of the Durham OHT application process. RMD provided \$20,000 in one-time funding support for the application and SSD and RDPS staff participated on steering/governance committees and clinical working groups. Engagement activities were led by SSD with support from RDPS.
- 2.5 SSD and RDPS were invited to participate in the EYRND OHT in December 2019, after its OHT application was approved. SSD and RDPS have participated on various working groups and committees.

3. Current Status

- 3.1 As a result of Durham Region Health Department's (DRHD's) leadership role in response to the COVID-19 pandemic and lessons learned, Executive Leadership for OHT engagement was transitioned to DRHD, led by RDPS, with close collaborative support from SSD.
- 3.2 Multiple Regional programs/services have some connection to the work of OHTs, such as:
 - a. Corporate Services Department – Information Technology
 - b. DRHD – Health Protection, Oral Health, Population Health, RDPS
 - c. Durham Regional Police Service
 - d. Durham Region Transit – Specialized Services
 - e. Office of the Regional Chair and CAO – Corporate Communications
 - f. SSD – Family Services Durham, Housing Services, Income & Employment Support, Long-Term Care, Services for Seniors

This necessitates a coordinated Regional approach to OHT participation and engagement.

- 3.3 The Ministry of Health requires all approved OHTs to have a CDMA in place, signed by all partner organizations. The CDMA outlines the terms of how the OHT will function with respect to leadership and decision making.
- 3.4 CDMA's for EYRND OHT and Durham OHT were reviewed by Legal Services and signed by the Commissioner & Medical Officer of Health.
- 3.5 DRHD, on behalf of RMD, is a voting member of EYRND OHT's Core Leadership Council and Durham OHT's Steering and Governance Committees. This allows DRHD to advocate on behalf of local residents and influence decisions related to collaboration between Regional and OHT services.

- 3.6 EYRND OHT is further along in planning and implementation work than the Durham OHT and includes 19 partner organizations (see Attachment). In Year 1, its target populations include: those needing mental health and addictions support; and patients and caregivers living with dementia.
- 3.7 Regional staff from RDPS and SSD currently contribute to EYRND OHT action teams and working groups through in-kind support.
- 3.8 The Durham OHT suspended work from March 2020 until August 2020 due to the need to focus on COVID-19 response. Its Year 1 target populations include: older adults living with frailty or at risk of frailty; and patients living with complex care needs. Durham OHT includes 18 partner organizations (see Attachment).
- 3.9 It is anticipated that Regional staff will participate on relevant Durham OHT working groups when they begin to meet again.

4. Relationship to Strategic Plan

- 4.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:

a. Community Vitality

- Enhance community safety and well-being
- Influence the social determinants of health to improve outcomes for vulnerable populations
- Support a high quality of life for all through human services delivery
- Build a health, inclusive, age-friendly community where everyone feels a sense of belonging

b. Social Investment

- Build awareness and community capacity to address poverty
- Expand access to existing life stabilization programs

c. Service Excellence

- Optimize resources and partnerships to deliver exceptional quality services and value
- Collaborate for a seamless service experience
- Demonstrate commitment to a continuous quality improvement and communicating results

5. Conclusion

- 5.1 RMD's participation and engagement with OHTs that will provide services to Durham Region residents is necessary to ensure that needs of local residents are considered.

5.2 Many Regional services are directly impacted by the establishment of OHTs and Regional staff members with various areas of expertise are included on OHT working groups and committees. Regional staff will continue to highlight the need for OHTs to include social care and supports as part of their service frameworks.

6. Attachment

Attachment: Ontario Health Teams Partner Organizations

Respectfully submitted,

Original signed by

R.J. Kyle, BSc, MD, MHSc, CCFP, FRCPC, FACPM
Commissioner & Medical Officer of Health

Ontario Health Team Partner Organizations

Durham Ontario Health Team

<https://www.lakeridgehealth.on.ca/en/aboutus/durham-ontario-health-team.asp>

Partners:

Alzheimer Society Durham Region
Brock Community Health Centre
Carea Community Health Centre
CBI Health Group
Clarington Family Health Organization
Community Advantage Rehabilitation
Community Care Durham
Complex Injury Rehab Inc.
Durham Mental Health Services
Grandview Children's Centre
Lakeridge Health
March of Dimes Canada
Medical Associates of Port Perry
North Durham Family Health Team
Oshawa Clinic Group
Partners in Community Nursing
SE Health
The Regional Municipality of Durham
Victorian Order of Nurses for Canada, Ontario Branch, Durham Site (VON DURHAM)

Eastern York Region North Durham Ontario Health Team

www.eyrnd.ca

Partners

360Kids
Addiction Services for York Region
Alzheimer Society – Durham Region
Alzheimer Society – York Region
Canadian Mental Health Association – York and South Simcoe
Carefirst – Seniors & Community Service Association
CHATS – Community & Home Assistance to Seniors
Region of Durham
East Markham Family Health Organization
Entite 4
Health for All Family Health Team
Krasman Centre
Markham Family Health Organization
Markham Family Health Team
Markham Stouffville Hospital

New Unionville Home Society
SE Health
SRT MedStaff
York Region
York Support Services Network

Kawartha Lakes Ontario Health Team

<https://kawarthalakesoht.ca>

Lead Members:

Ross Memorial Hospital
Community Care City of Kawartha Lakes
City of Kawartha Lakes Family Health Organization
City of Kawartha Lakes Family Health Team
The Corporation of the City of Kawartha Lakes
Kawartha North Family Health Team

Partners:

Brock Community Health Centre
Care Partners
CMHA Haliburton, Kawartha, Pine Ridge
Extendicare Kawartha Lakes

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2564



The Regional Municipality of Durham Information Report

From: Commissioner of Planning and Economic Development
Report: #2020-INFO-91
Date: October 9, 2020

Subject:

Durham Region Broadband Program Update – Improving Connectivity for Ontario (ICON) Program, Stage 1 Application Status

Recommendation:

Receive for information

Report:

1. Purpose

- 1.1 The purpose of this report is to provide an update on the Durham Region Broadband program and the successful efforts in Stage 1 of the Ontario Government’s Improving Connectivity for Ontario (ICON) program.
- 1.2 The report will also highlight some of the requirements for the Region’s Stage 2 application submission under the Province’s ICON program.

2. Background

- 2.1 In July 2020, the Province of Ontario announced that it will be investing \$150 million in the Improving Connectivity for Ontario (ICON) program, a broadband and cellular infrastructure funding program. The ICON program is a part of the Province’s “Up to Speed: Ontario’s Broadband and Cellular Action Plan” which outlines key actions to expand connectivity (broadband and cellular) in underserved areas across the Province.

- 2.2 The goal of the ICON program is to improve broadband and cellular coverage in underserved and unserved communities. It also promotes industry partnerships to meet connectivity speeds of at least 50 Mbps download and 10 Mbps upload (50/10).
- 2.3 The ICON program is open to telecommunication service providers, municipal governments, Indigenous communities and non-profits to submit proposals to improve connectivity in select communities across Ontario.
- 2.4 The program will fund a maximum of 25% of project costs with the remaining 75% to be funded by other private sector, municipal, or federal sources.
- 2.5 The two-stage application process begins with a determination in Stage 1 of whether the proposed project meets the minimum program requirements, and if accepted, applicants move to a more detailed submission for Stage 2.

3. ICON Program – Stage 1 Application

- 3.1 Durham's Stage 1 application was submitted on August 21, 2020 and proposes a transformative project that aims to bridge the digital divide between our urban centres and the rest of the Region. Durham's Stage 1 application includes 500 kilometres of high-speed fibre optic cable that would be laid passing through hamlets and communities that are currently underserved. The current estimate suggests that this Regional Broadband Network could reach over 13,000 households, over 2,000 businesses and approximately 200 anchor tenants. This backbone network would, if approved, deliver broadband speeds over and above the CRTC standards.
- 3.2 Subject to a business case and the outcome of partnership negotiations, including governance structure, this scalable backbone infrastructure could become a Regional asset, enabling ISPs to focus on building the high-speed 'last-mile' networks to customers in these communities. This project is not intended to compete with ISPs, but rather to create benefits by enabling them to accelerate service delivery to customers that would otherwise be uneconomical.
- 3.3 The backbone network would be designed to carry 10 gigabits (Gbps), with the ability to scale to 40 Gbps as traffic demand increases. By connecting into this backbone, Internet Service Providers would be able to serve local communities with 50/10 Mbps speeds or better, meeting the speed and capacity targets required in the ICON application.

- 3.4 The Region's Stage 1 application was strengthened by teaming with two co-applicants who will contribute the required experience and expertise outlined in the application criteria. Letters of intent from the co-applicants were submitted with the Stage 1 application, and collaboration with the co-applicants continues.
- 3.5 To demonstrate local backing for the project, 20 letters of support were obtained from across the Region including: all area municipalities; the business community as represented by the local Chambers of Commerce, Boards of Trade and major employers; and post secondary institutions including Ontario Tech University, Trent University, and Durham College. Attachment 1 provides a list of the organizations that provided letters.
- 3.6 Although an indicative budget with proposed project funding sources was requested, no financial commitments were required at this stage of the application process. The Region's proposal noted that the Region and our co-applicants will also continue to seek opportunities for funding from the Federal Government as it becomes available. It is estimated that a Federal funding program could contribute 50% of the total project costs.

4. Stage 2 Application

- 4.1 On September 25, 2020, Durham was notified that its Stage 1 application was successful, which means that the Region may now submit a Stage 2 application.
- 4.2 Stage 2 applications are due on November 28, 2020 and will require extensive design and financial details. Project cost is a primary criterion in the evaluation of the Stage 2 application. Success for the ICON grant and the Regional Broadband Network will require a financial contribution by the Region and co-applicants. Staff will make recommendations for Council's consideration in November for approval of any financial commitments prior to submission.
- 4.3 Applications will be evaluated by the Province with the results made known to the ICON program applicants by April 2, 2021.

5. Conclusion

- 5.1 The current COVID-19 pandemic has highlighted the importance of fast, reliable internet service and further heightens the importance of infrastructure to support the rural and underserved areas in Durham as outlined in the Region's Broadband Strategy.

- 5.2 The success in Stage 1 of the ICON application further highlights the recognized need for Broadband connectivity in unserved or underserved communities in Durham Region.
- 5.3 Staff will report back with the findings of the business case for a Regional Broadband Network and to seek Council approval of the necessary financial commitment to proceed with the Stage 2 ICON application prior to the November 28 application deadline.
- 5.4 For additional information regarding this matter, contact: Riaz Razvi, Broadband Specialist, at 905-668-7711, extension 2601 or at Riaz.Razvi@durham.ca.

6. Attachments

Attachment #1: List of organizations that provided letters of support

Respectfully submitted,

Original signed by

Brian Bridgeman, MCIP, RPP
Commissioner of Planning and
Economic Development

Improving Connectivity in Ontario - Letters of Support

1. Agricultural Advisory Committee - Clarington
2. Ajax-Pickering Board of Trade
3. The Corporation of the Township of Brock
4. Business Advisory Centre Durham (BACD)
5. City of Pickering
6. Clarington Board of Trade and Office of Economic Development
7. Municipality of Clarington
8. Durham Region Federation of Agriculture
9. Durham Agricultural Advisory Committee
10. Durham College
11. Durham District School Board
12. Ontario Power Generation
13. Ontario Tech University
14. Town of Ajax
15. Town of Whitby
16. Township of Scugog
17. Township of Uxbridge
18. Trent University Durham GTA
19. Whitby Chamber of Commerce
20. City of Oshawa

If you require this information in an accessible format, please contact The Regional Municipality of Durham at 1-800-372-1102 ext. 3560.



September 30, 2020

Celeste Dugas, Manager, York Durham District Office
Ministry of the Environment, Conservation and Parks
230 Westney Road South, Floor 5
Ajax, Ontario L1S 7J5

Dear Ms. Dugas:

RE: Durham York Energy Centre
Submission of June 2020 Complaint and Inquiry Logs
MECP File #: EA-08-02

The Regional Municipality of Durham, the Regional Municipality of York, and Covanta continue to monitor complaints and inquiries for the Durham York Energy Centre and provide monthly reports to the Ministry of the Environment, Conservation and Parks' (MECP) York Durham District Office. The next reporting period will cover the month of July 2020.

We trust that this meets the MECP's expectation. If you require additional information, please contact the undersigned.

Sincerely,

Original signed by:

Gioseph Anello, M.Eng., P.Eng., PMP
Director, Waste Management Services

The Regional Municipality of Durham
905-668-7711 extension 3445
Gioseph.Anello@durham.ca

Original signed by:

Laura McDowell, P.Eng.
Director, Environmental Promotion
and Protection

The Regional Municipality of York
905-830-4444 extension 75077
Laura.McDowell@york.ca

- c. P. Dunn, Senior Environmental Officer, York Durham District Office, MECP
J. Butchart, Issues Project Coordinator (Acting), York Durham District Office, MECP
P. Martin, Supervisor, Air, Pesticides and Environmental Planning, MECP
E. O'Leary, Environmental Resource Planner and EA Coordinator, Air, Pesticides and Environmental Planning, MECP
G. Battarino, Special Project Officer, Project Coordination, Environmental Assessment Services, MECP
A. Huxter, Environmental Specialist, Covanta
Energy from Waste Advisory Committee (EFWAC)
C. Raynor, Regional Clerk, The Regional Municipality of York
R. Walton, Regional Clerk, The Regional Municipality of Durham

Enclosure

Inquiries – June 2020

#	Date Received	Method Received	Comment Details / Description	Response / Remedial Action	Date Responded	Staff Initials
-	-	-	The Regional Municipalities of Durham and York released a Notice of Commencement on July 3, 2019 for the Environmental Screening Process to increase the waste capacity from 140,000 tonnes of waste to 160,000 tonnes of waste per year at the Durham York Energy Centre.	Inquires received through the Environmental Screening Process will be addressed and reported to the MECP through the Record of Consultation for the Project.	-	-

Total Inquiries – June 2020

Inquiry Type	Total by Inquiry Type
Total Project Team Inquiries received this month by project web email / telephone:	0
Total Covanta Inquiries received this month:	0
Total Durham Region Council / Committee Inquiries received this month:	0
Total Durham Region Call Centre Inquiries received this month:	0
Total Inquiries received from York Region this month:	0
Total Inquiries received from previous months in 2020 to-date:	15
Total Inquiries received in 2020 to-date:	15

Complaints – June 2020

#	Date Received	Method Received	Comment Details / Description	Response / Remedial Action	Date Responded	Staff Initials
-	-	-	The Regional Municipalities of Durham and York released a Notice of Commencement on July 3, 2019 for the Environmental Screening Process to increase the waste capacity from 140,000 tonnes of waste to 160,000 tonnes of waste per year at the Durham York Energy Centre.	Complaints received through the Environmental Screening Process will be addressed and reported to the MECPC through the Record of Consultation for the Project.	-	-

Total Complaints – June 2020

Complaint Type	Total by Complaint Type
Total Project Team Complaints received this month by project web email / telephone:	0
Total Covanta Complaints received this month:	0
Total Durham Region Council / Committee Complaints received this month:	0
Total Durham Region Call Centre Complaints received this month:	0
Total Complaints received from York Region this month:	0
Total Complaints received from previous months in 2020 to-date:	5
Total Complaints received in 2020 to-date:	5

If you require this information in an accessible format, please contact The Regional Municipality of Durham at 1-800-372-1102 ext. 3560.



September 30, 2020

Celeste Dugas, Manager, York Durham District Office
Ministry of the Environment, Conservation and Parks
230 Westney Road South, Floor 5
Ajax, Ontario L1S 7J5

Dear Ms. Dugas:

RE: Durham York Energy Centre
Submission of July 2020 Complaint and Inquiry Logs
MECP File #: EA-08-02

The Regional Municipality of Durham, the Regional Municipality of York, and Covanta continue to monitor complaints and inquiries for the Durham York Energy Centre and provide monthly reports to the Ministry of the Environment, Conservation and Parks' (MECP) York Durham District Office. The next reporting period will cover the month of August 2020.

We trust that this meets the MECP's expectation. If you require additional information, please contact the undersigned.

Sincerely,

Original signed by:

Gioseph Anello, M.Eng., P.Eng., PMP
Director, Waste Management Services

The Regional Municipality of Durham
905-668-7711 extension 3445
Gioseph.Anello@durham.ca

Original signed by:

Laura McDowell, P.Eng.
Director, Environmental Promotion
and Protection

The Regional Municipality of York
905-830-4444 extension 75077
Laura.McDowell@york.ca

- c. P. Dunn, Senior Environmental Officer, York Durham District Office, MECP
J. Butchart, Issues Project Coordinator (Acting), York Durham District Office, MECP
P. Martin, Supervisor, Air, Pesticides and Environmental Planning, MECP
E. O'Leary, Environmental Resource Planner and EA Coordinator, Air, Pesticides and
Environmental Planning, MECP
G. Battarino, Special Project Officer, Project Coordination, Environmental Assessment
Services, MECP
A. Huxter, Environmental Specialist, Covanta
Energy from Waste Advisory Committee (EFWAC)
C. Raynor, Regional Clerk, The Regional Municipality of York
R. Walton, Regional Clerk, The Regional Municipality of Durham

Enclosure

Inquiries – July 2020

#	Date Received	Method Received	Comment Details / Description	Response / Remedial Action	Date Responded	Staff Initials
-	-	-	The Regional Municipalities of Durham and York released a Notice of Commencement on July 3, 2019 for the Environmental Screening Process to increase the waste capacity from 140,000 tonnes of waste to 160,000 tonnes of waste per year at the Durham York Energy Centre.	Inquires received through the Environmental Screening Process will be addressed and reported to the MECP through the Record of Consultation for the Project.	-	-
1	July 10, 2020	DYEC Project Email	Can I please be in touch with someone who can help to calculate the quantity of energy to be produced? I currently have data related to waste produced for the last 10years, forecast of the population for the next 5years. I will really appreciate your help. Feel free to call me at 416-821-0589. I am looking forward to hearing from you.	Staff answered questions about the steps involved in developing an EFW including impacts of diversion programs and energy content. The also discussed the general process and how we procured the project (i.e. Design, Build, Operate and Maintain contract).	July 23, 2020 and August 17, 2020	AE
2	July 19, 2020	DYEC Project Email	Do you not publish daily stack counts for dioxin and furans?	This email is in response to your question sent on July 19, 2020 regarding dioxin and furan sampling at the Durham York Energy Centre (DYEC). The DYEC operates within stringent air emissions limits that are protective of human health and the environment. Emissions limits and testing program requirements are established by the Ministry of Environment, Conservation and Parks (MECP) through the facility's Environmental Compliance Approval (ECA). Emissions testing results are posted on the DYEC website at: https://durhamyorkwaste.ca/EmissionsData/EmissionsData.aspx . While the approved testing program includes continuous monitoring for some parameters where the technology exists, parameters such as particulate matter, heavy metals, dioxins and furans, and other organic compounds can only be tested through periodic collection and laboratory analysis of samples. These samples are collected twice per year through stack tests (source tests) carried out by a qualified independent consultant. These stack tests consist of an annual compliance test mandated by the DYEC	July 30, 2020	DL/AE/SD/GA

#	Date Received	Method Received	Comment Details / Description	Response / Remedial Action	Date Responded	Staff Initials
				<p>Environmental Compliance Approval (ECA), as well as an additional annual voluntary test.</p> <p>In addition to monitoring emissions at the stack, off-site ambient air (surrounding air quality) is also monitored. Ambient air monitoring is conducted on a continuous basis at two ambient air monitoring stations. An upwind (background) ambient air monitoring station is located on the Courtice Water Pollution Control Plant property and a downwind ambient air monitoring station is located at Baseline and Rundle Road. Dioxins and furan samples are collected for a 24-hour period, at 24-day intervals. Results are reported back to the Region through bi-weekly, quarterly and annual reports. Quarterly and annual reports are submitted to the MECP and are posted on the DYEC website at:</p> <p>https://durhamyorkwaste.ca/Documents/MonitoringPlansReports/AmbientAir.aspx.</p> <p>It is important to note that measurements taken by the ambient air stations represent a combination of emissions from all sources in the vicinity of the Durham York Energy Centre. These can include industrial sources, construction activities, residential / commercial, agricultural and transportation.</p> <p>Please let us know if you have any additional questions or concerns.</p> <p>Regards,</p> <p>DYEC Project Team</p> <p>Gioseph Anello, MEng, PEng, PMP</p> <p>Director Waste Management Services</p> <p>Phone: (905) 668-4113 ext. 3445</p> <p>Cell: (905) 447-8231</p>		

Total Inquiries – July 2020

Inquiry Type	Total by Inquiry Type
Total Project Team Inquiries received this month by project web email / telephone:	2
Total Covanta Inquiries received this month:	0
Total Durham Region Council / Committee Inquiries received this month:	0
Total Durham Region Call Centre Inquiries received this month:	0
Total Inquiries received from York Region this month:	0
Total Inquiries received from previous months in 2020 to-date:	15
Total Inquiries received in 2020 to-date:	17

Complaints – July 2020

#	Date Received	Method Received	Comment Details / Description	Response / Remedial Action	Date Responded	Staff Initials
-	-	-	The Regional Municipalities of Durham and York released a Notice of Commencement on July 3, 2019 for the Environmental Screening Process to increase the waste capacity from 140,000 tonnes of waste to 160,000 tonnes of waste per year at the Durham York Energy Centre.	Complaints received through the Environmental Screening Process will be addressed and reported to the MECP through the Record of Consultation for the Project.	-	-
1	July 7, 2020	DYEC Project Email	<p>The smell has been bad here all day. I need to close all the windows to prevent that smell from entering the house.</p> <p>The resident responded with an address after the first response from DYEC staff.</p>	<p>Good Morning,</p> <p>This email is in response to your concern dated July 7, 2020 regarding odour you have been experiencing in the community.</p> <p>Please note that the potential for odours is closely monitored at the Durham York Energy Centre (DYEC). Regular odour inspections are completed by both Regional and Operator staff to ensure there are no offsite impacts occurring due to odour from DYEC operations. In fact, the facility was designed to prevent the release of odours into the community. All trucks delivering waste to the DYEC are covered and the tipping hall, where municipal solid waste is received and unloaded, is located indoors. The air in the tipping hall is drawn through large fans and used in the combustion process. This ensures the tipping hall remains under negative air pressure to contain any dust and odours generated during the delivery and storage process. Additionally, the odour causing compounds are destroyed through the combustion process prior to reaching the stack. Regular odour inspections are also completed by both Regional and Operator staff to ensure there are no offsite impacts due to odour from operations as part of the facilities environmental monitoring program.</p> <p>When an odour complaint is received at the DYEC, it is reported to the Ministry of the Environment, Conservation and Parks (MECP) as per the facilities Environmental Compliance Approval. This triggers an investigation of the available data, including wind direction from meteorological data, conditions of operations, and a review of our odour inspections, to determine conditions at the time of the reported incident. If there is a specific day and time when you are experiencing a garbage odour, you are encouraged</p>	July 7, 2020	DYEC Project Email

				<p>to notify us so we can further investigate your concern. Unfortunately, without an address or general location of the odour in question, it is difficult to use the meteorological data in the investigation process. However, a review of the odour inspection documents from July 7, 2020 indicate no offsite odours were present from the operation of the facility. The facility was operating normally during the day in question, with no upset conditions occurring during the period.</p> <p>There was an odour noted by staff during routine monitoring activities in the area which had been previously identified as originating from another operation. The presence of the odour has been noted to the MECP by Regional staff.</p> <p>Please note that Phil Dunn, the provincial environmental officer for the DYEC, has been copied on this email and has confirmed that the DYEC is not believed to be the source of the offsite odour in question on July 7, 2020. This does not mean that an odour is not present within the community, but that the odour is not associated with our facility.</p> <p>Should you have additional concerns regarding odours within the area, please do not hesitate to contact us or Phil Dunn directly.</p> <p>Regards, DYEC Project Team</p> <p>Good Afternoon,</p> <p>Thank you for your note. Given the additional information provided, Regional staff conducted a drive through the area identified in your email at approximately 13:30 this afternoon. We were able to detect an odour in the area of Trulls/Bloor commonly associated with other facility operations in the area. The Durham York Energy Centre continues to operate under normal operating conditions today, with no upset conditions. No off site odours have been noted due to operations of the DYEC facility on July 10, 2020. We have been in contact with Phil Dunn today and have passed along this information.</p> <p>Please let us know if you have any additional questions or concerns.</p> <p>Regards, DYEC Project Team</p>		
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Total Complaints – July 2020

Complaint Type	Total by Complaint Type
Total Project Team Complaints received this month by project web email / telephone:	1
Total Covanta Complaints received this month:	0
Total Durham Region Council / Committee Complaints received this month:	0
Total Durham Region Call Centre Complaints received this month:	0
Total Complaints received from York Region this month:	0
Total Complaints received from previous months in 2020 to-date:	7
Total Complaints received in 2020 to-date:	8

If you require this information in an accessible format, please contact The Regional Municipality of Durham at 1-800-372-1102 ext. 3560.



September 30, 2020

Celeste Dugas, Manager, York Durham District Office
Ministry of the Environment, Conservation and Parks
230 Westney Road South, Floor 5
Ajax, Ontario L1S 7J5

Dear Ms. Dugas:

RE: Durham York Energy Centre
Submission of August 2020 Complaint and Inquiry Logs
MECP File #: EA-08-02

The Regional Municipality of Durham, the Regional Municipality of York, and Covanta continue to monitor complaints and inquiries for the Durham York Energy Centre and provide monthly reports to the Ministry of the Environment, Conservation and Parks' (MECP) York Durham District Office. The next reporting period will cover the month of September 2020.

We trust that this meets the MECP's expectation. If you require additional information, please contact the undersigned.

Sincerely,

Original signed by:

Gioseph Anello, M.Eng., P.Eng., PMP
Director, Waste Management Services

The Regional Municipality of Durham
905-668-7711 extension 3445
Gioseph.Anello@durham.ca

Original signed by:

Laura McDowell, P.Eng.
Director, Environmental Promotion
and Protection

The Regional Municipality of York
905-830-4444 extension 75077
Laura.McDowell@york.ca

- c. P. Dunn, Senior Environmental Officer, York Durham District Office, MECP
J. Butchart, Issues Project Coordinator (Acting), York Durham District Office, MECP
P. Martin, Supervisor, Air, Pesticides and Environmental Planning, MECP
E. O'Leary, Environmental Resource Planner and EA Coordinator, Air, Pesticides and Environmental Planning, MECP
G. Battarino, Special Project Officer, Project Coordination, Environmental Assessment Services, MECP
A. Huxter, Environmental Specialist, Covanta
Energy from Waste Advisory Committee (EFWAC)
C. Raynor, Regional Clerk, The Regional Municipality of York
R. Walton, Regional Clerk, The Regional Municipality of Durham

Enclosure

Inquiries – August 2020

#	Date Received	Method Received	Comment Details / Description	Response / Remedial Action	Date Responded	Staff Initials
-	-	-	The Regional Municipalities of Durham and York released a Notice of Commencement on July 3, 2019 for the Environmental Screening Process to increase the waste capacity from 140,000 tonnes of waste to 160,000 tonnes of waste per year at the Durham York Energy Centre.	Inquires received through the Environmental Screening Process will be addressed and reported to the MECP through the Record of Consultation for the Project.	-	-
1	August 13, 2020	DYEC Project Email	<p>Hello,</p> <p>I watched the virtual tour on your website and I think you can be interested by our trim waste materials. We produce trims composed of plastic, paper & foil that are currently collected into two containers. The trims are sent to landfilling and we would like to find a sustainable solution to recycle them instead. Considering that plastic & paper both have a high combustion efficiency, I think it would be interesting for your electricity production process!</p> <p>Feel free to contact me by replying to this mail or phone.</p> <p>Best regards</p>	<p>Good Afternoon,</p> <p>This email is in response to your inquiry received on August 13, 2020 regarding the disposal of trim waste material at the Durham York Energy Centre.</p> <p>The DYEC is Durham Region's primary long-term disposal option for waste and only processes the household waste remaining after Durham and York Regions' aggressive composting, recycling and reuse programs. Our Certificate of Approval only permits us to take waste from residential collection programs within Durham and York Regions and delivered via approved waste haulers. We do not accept commercial, industrial or institutional waste at the facility. As a result of the above-mentioned factors, we are not able to accept your trim material for disposal at our facility at this time.</p> <p>Please let us know if you have any additional questions.</p> <p>Regards, DYEC Project Team</p>	August 17, 2020	DL

Total Inquiries – August 2020

Inquiry Type	Total by Inquiry Type
Total Project Team Inquiries received this month by project web email / telephone:	1
Total Covanta Inquiries received this month:	0
Total Durham Region Council / Committee Inquiries received this month:	0
Total Durham Region Call Centre Inquiries received this month:	0
Total Inquiries received from York Region this month:	0
Total Inquiries received from previous months in 2020 to-date:	17
Total Inquiries received in 2020 to-date:	18

Complaints – August 2020

#	Date Received	Method Received	Comment Details / Description	Response / Remedial Action	Date Responded	Staff Initials
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Total Complaints – August 2020

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Total Durham Region Call Centre Complaints received this month:	0
Total Complaints received from York Region this month:	0
Total Complaints received from previous months in 2020 to-date:	8
Total Complaints received in 2020 to-date:	8

If this information is required in an accessible format, please contact The Regional Municipality of Durham at 1-800-372-1102 extension 3560.



October 2, 2020

Lisa Trevisan, Director, Central Region
Ministry of the Environment and Climate Change
Place Nouveau
5775 Yonge Street, Floor 8
North York, Ontario M2M 4J1

Dear Ms. Trevisan:

**RE: Durham/York Energy from Waste Project
Third Party Independent Audit Report - Operation Year 2019
Environmental Assessment (EA) Condition of Approval Number 16.5
Environmental Compliance Approval (ECA) 15(2)
MECP File #: EA-08-02**

In accordance with Condition 16.5 of the Notice of Approval to Proceed with the Undertaking (EA) and ECA Condition 15(2), The Regional Municipality of Durham and The Regional Municipality of York (Regions) have received the enclosed Operations Phase Independent Audit Report (Audit Report) on the Durham York Energy Centre (DYEC) covering the 2019 operating year.

BluMetric commenced the operations phase audit on September 1 and 2, in accordance with the Operations Phase Audit Plan and the letter to Ms. Celeste Dugas, Manager, York Durham District Office, dated April 14, 2020, advising of revisions to the DYEC Operations Audit Plan to allow for the audit date to be rescheduled in the event of an emergency situation. The operations phase audit was completed by BluMetric and submitted to the Regions on September 24, 2020.

The Executive Summary of the Audit Report states “For the 2019 operational year, DYEC operated in general accordance with environmental legislations and their Environmental Assessment conditions.”

The audit is comprised of three parts, namely: document review, site walkthrough, and interviews. In light of the current COVID-19 pandemic and the precautionary measure in place, the internal site walkthrough was undertaken via Microsoft Teams video meeting application.

The Audit Report identified one new non-compliance relating to an open door and four opportunities for improvement pertaining to the loader cleaning procedure, waste oil drum spill and site signage. There were two outstanding items remaining from the previous year’s audit referring to landscaping and visual screening on site and the Spill Contingency Emergency Response Plan.

A copy of the Audit Report will be retained at the site and posted on the project website (www.durhamyorkwaste.ca) in accordance with ECA Condition 15(3). The Audit Report will also be submitted to the Energy from Waste Advisory Committee for information.

If you require any further information, please contact Gioseph Anello, Director, Waste Management Services, at 905-668-7711 extension 3445.

Sincerely,

Original signed by:

Gioseph Anello, M.Eng., P.Eng., PMP
Director, Waste Management Services
The Regional Municipality of Durham
905-668-7711 ext. 3445
Gioseph.Anello@durham.ca

Original signed by:

Laura McDowell P.Eng.
Director, Environmental Promotion and Protection
The Regional Municipality of York
905-830-4444 ext. 75077
Laura.McDowell@york.ca

Original signed by:

Matthew Neild, Facility Manager
Covanta Durham York Renewable Energy Limited Partnership
905-404-4030
MNeild@covanta.com

- c. C. Dugas, Manager, York Durham District Office, MECP
- P. Dunn, Senior Environmental Officer, York Durham District Office, MECP
- J. Butchart, Issues Project Coordinator, York Durham District Office, MECP
- P. Martin, Supervisor, Air, Pesticides, and Environmental Planning, MECP
- G. Battarino, Special Project Officer, Project Coordination, Environmental Assessment Services, MECP
- E. O'Leary, Environmental Resource Planner and Environmental Assessment Coordinator, Air, Pesticides, and Environmental Planning, MECP
- Energy from Waste Advisory Committee (EFWAC)
- A. Huxter, Environmental Specialist, Covanta
- C. Raynor, Regional Clerk, The Regional Municipality of York
- R. Walton, Regional Clerk, The Regional Municipality of Durham

Enclosure

**THIRD PARTY INDEPENDENT AUDIT
DURHAM YORK ENERGY CENTRE FACILITY
OPERATIONS PHASE AUDIT - 2019**

Submitted to:

Durham York Energy Centre
Region of Durham
1835 Energy Drive
Courtice, ON L1E 2R2

Prepared by:

BluMetric Environmental Inc.
825 Milner Avenue
Toronto, ON M1B 3C3

Project Number: 180225
September 25, 2020

EXECUTIVE SUMMARY

BluMetric Environmental Inc. (BluMetric™) was retained by the Regional Municipality of Durham to complete the annual, third party, independent audit of the Durham York Energy Centre (DYEC) Facility Operations for a three year period commencing in 2018 and ending after the final report is submitted in 2020. The 2019 operations phase audit was conducted in September 2020 instead of April due to access restrictions imposed as a result of the COVID-19 pandemic.

The audit was conducted to satisfy Condition 16 of the DYEC Environmental Assessment Notice of Approval, Condition 15(2) of the Environmental Compliance Approval (ECA) as well as applicable regulatory criteria. The audit was completed in accordance with CSA Z773 Environmental Compliance Auditing Standard, the Durham York Energy Centre Operations Phase Audit Plan, as well as the International Accreditation Forum (IAF) MD 4:2018 (Issue 2) Standard - IAF Mandatory Document for the Use of Information and Communication Technology (ICT) for Auditing/Assessment Purposes, the IAF ID 12:2015 (Issue 1) Standard - Principles on Remote Assessment and the Durham York Energy Centre Operations Phase Audit Plan Revision 1. Auditing evidence was collected through documentation review, interviews, a remote site tour of interior operations and a site visit to observe exterior infrastructure. Document review included the most recent version of each document, including a review of recommendations from the previous year's third party independent audit. The audit was conducted on September 1 and 2, 2020 and included the review of records created between January 1 and December 31, 2019.

For the 2019 operational year, DYEC operated in general accordance with environmental legislations and their Environmental Assessment conditions. There was one new non-compliance identified for the 2019 operational year. Four opportunities for improvement were noted pertaining to the loader cleaning procedure, waste oil drum spill, and site signage. There were two outstanding items remaining from previous operation year external audits.

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1 INTRODUCTION

The Durham York Energy Centre (DYEC) is a waste-to-energy facility located in Courtice, Ontario that processes approximately 140,000 tonnes of solid municipal waste (SMW) annually, generating up to 20 MW of electricity. BluMetric Environmental Inc. (BluMetric™) was retained by the Regional Municipality of Durham to complete an annual third party independent audit of the DYEC Facility Operations for a three year period commencing in 2018 and ending after the final report is submitted in 2020.

The 2019 operations phase audit was carried out to satisfy Condition 16 of the DYEC Environmental Assessment Notice of Approval, Condition 15(2) of the Environmental Compliance Approval (ECA, formerly known as Certificate of Approval) as well as applicable regulatory criteria. The limitations of this study are presented in **Appendix A**.

1.1 SCOPE OF WORK

The audit was completed in accordance with CSA Z773 Environmental Compliance Auditing Standard, the Durham York Energy Centre Operations Phase Audit Plan as well as the IAF MD 4:2018 (Issue 2) IAF Mandatory Document for the Use of Information and Communication Technology (ICT) for Auditing/Assessment Purposes and IAF ID 12:2015 (Issue 1) Principles on Remote Assessment. Auditing evidence was collected through documentation review, interviews, a remote site tour of interior operations and a site visit to observe exterior infrastructure. Document review included the most recent version of each document, including a review of recommendations from the previous year's third party independent audit.

The scope of the audit consisted of review of records created between January 1 and December 31, 2019 related to the following:

1. Confirmation that the operations at the Site are undertaken in accordance with the requirements of the Environmental Assessment Approval, Environmental Compliance Approval, and regulatory requirements.
2. A review of the monitoring and testing results required by the ECA.
3. A review of any complaints received about the operation of the Facility.
4. A review of recommendations for improving the operation of the Facility received from the Advisory Committee.
5. Recommendations for any improvements to ensure that facility operations are compliant and protective of human health and safety and the environment.

6. Observations made during the walkthrough of the entire site (interior sections were visited remotely while exterior portions were visited in person).
7. A review of all operations used in connection with the undertaking.
8. A detailed review of all records required to be kept by the EA Notice of Approval or under any other ministry approvals for the undertaking.

2 AUDIT METHODOLOGY

The third party audit was executed by BluMetric in three phases as follows:

Phase I	Audit Plan and Document Review
Phase II	On-Site and Remote Audit
Phase III	Audit Reporting

2.1 PHASE I: AUDIT PLAN AND DOCUMENT REVIEW

An Audit Plan was prepared by BluMetric and submitted to the DYEC on August 4, 2020. The plan briefly described the audit objectives, scope and criteria, audit approach and methodology (remote site tour, site visit, interviews, etc.), presented the schedule and timetable, audit activities and documents to be reviewed on-site. The Audit Plan is presented in **Appendix B**.

Prior to the on-site audit, the BluMetric auditors reviewed available documentation to verify the scope of the audit, update the audit checklists, and create site specific audit questions. Documentation was available from the DYEC website (<https://www.durhamyorkwaste.ca>) and consisted of approvals, agreements, annual environmental monitoring reports, facility operations reports and facility management plans. A complete list of documents reviewed is provided in **Appendix C**. The 2018 Operations Independent Third Party Audit Report was reviewed and the recommendations from this report were noted as audit questions.

2.2 PHASE II: ON-SITE AND REMOTE AUDIT

The audit was conducted on September 1 and 2, 2020 by BluMetric auditors Ms. Philippa McPhee, B. Sc. (Auditor) and Ms. Jessica Petrocco M. Eng., P. Eng., EP (CEA) (Lead Auditor). Mr. Ian Macdonald, M.Sc., P. Geo., EP (CEA) (Senior Review) provided senior review of pre/post audit activities and report preparation. The on-site audit consisted of the following major steps.

2.2.1 Opening Meeting

As per the schedule of the Audit Plan, the opening meeting commenced at 9:00 am on September 1, 2020 via Microsoft Teams. The purpose of the opening meeting was to introduce the audit team and site representatives, summarize the objectives, scope and criteria of the audit, outline the audit protocols, review health and safety protocols and review the audit schedule and facility operations. The following stakeholders for the audit were present:

- Ms. Lyndsay Waller, Operations Technician, Regional Municipality of Durham
- Ms. Amanda Huxter, Environmental Specialist, Covanta
- Mr. O'Neil Wright, Internal Auditor, Regional Municipality of Durham
- Ms. Philippa McPhee, External Auditor, BluMetric Environmental Inc.
- Ms. Jessica Petrocco, External Lead Auditor, BluMetric Environmental Inc.

2.2.2 Inspection of Facility

With support from the DYEC audit team, BluMetric auditors virtually toured the interior of the DYEC facility including the tipping floor, Grizzly Building, Compressor Alley, Boiler Building, Maintenance Shop and Control Room, on September 1, 2020 via video conferencing (Microsoft Teams). All exterior areas, including the east and west ponds, scale house, residue storage building, entrance to the tipping floor, fire water pump house and all storage vessels of the DYEC facility were visited in person on September 2, 2020 by Ms. Philippa McPhee. The weather was noted to be approximately 22°C, overcast and windy. The tour included inspection and documentation of facility operations, environmental controls and mitigation measures in place and interviews with DYEC operations staff. Interviews were brief and focused on aspects that are relevant to the job or position of the interviewee. All facility operations were inspected excluding the electrical building and CEMS building interiors.

2.2.3 Collection and Review of Documents and Records

An in-depth review of documents and records was completed to confirm that all site activities complied with legislative requirements and conditions of approvals and permits including the commitments made in the EA report. Additional documents reviewed on-site are included in **Appendix C**.

2.2.4 Closing Meeting

At the closing meeting on September 2, 2020, BluMetric verbally presented audit findings to the DYEC stakeholders. BluMetric solicited input from the DYEC audit team, providing BluMetric with an opportunity to receive feedback and undertake further verification if necessary. The following stakeholders were present at the closing meeting:

- Mr. Andrew Evans, DYEC Project Manager, Regional Municipality of Durham
- Ms. Lyndsay Waller, Operations Technician, Regional Municipality of Durham
- Mr. O'Neil Wright, Internal Auditor, Regional Municipality of Durham
- Ms. Amanda Huxter, Environmental Specialist, Covanta via Microsoft Teams
- Ms. Philippa McPhee, External Auditor, BluMetric Environmental Inc.
- Ms. Jessica Petrocco, External Lead Auditor, BluMetric Environmental Inc. via Microsoft Teams

2.3 PHASE III: AUDIT REPORTING

This report has been prepared in accordance with the Durham York Energy Centre Operations Phase Audit Plan Revision 1 and presents the audit observations, conclusions and recommendations with respect to the 2019 operations of the DYEC. All review findings have been supported by evidence collected during the course of the audit. Observations made by the auditors are summarized in the ECA and EA checklists included in **Appendix D**.

3 FINDINGS AND RECOMMENDATIONS

3.1 PREVIOUS AUDIT FINDINGS

The Independent Third Party Audit for the 2018 Operational Year was completed by BluMetric. Each year, previous audit findings are considered as potential risk areas and are therefore re-visited to assess status. The findings presented in the Audit Report dated April 26, 2019 are listed in Table 1 below with the current compliance status:

Table 1: Previous Audit Findings

Audit Year	Finding	2019 Audit Status
2016	<p><i>Non-Compliance</i> ECA 8(15) – requires visual screening in accordance with documentation in “Schedule A”. Although the visual screening is in place, sign off for landscaping remains outstanding from the Municipality of Clarington because some of the trees have not remained viable for the minimum required time period.</p>	<p>Facility personnel stated that this item is still an outstanding item but is actively being resolved with the Municipality. This item remains open.</p>
2017	<p><i>Non-Compliance</i> The current Spill Contingency and Emergency Response Plan is not-up-to-date as it was written during the construction phase. Covanta has their own internal DYEC Emergency Action Plan/Fire Safety Plan Revision 9.0 Updated October 14, 2016 and Spills Clean Up and Disposal SOP (S-ENV-002) dated March 11, 2014 that their employees are trained on. Facility personnel indicated that they are in the process of up-dating the Contingency and Emergency Response Plan. ECA 11 (4) and ECA 11 (6).</p>	<p>During the site visit, Covanta staff indicated that they were still in the process of up-dating the Contingency and Emergency Response Plan. This item remains open.</p>
2017	<p><i>Opportunity for Improvement</i> The majority of non-flammable materials were clearly identified as being non-flammable; however, there was a non-flammable gas cylinder stored within a flammable cage.</p>	<p>During the site visit, BluMetric Auditors did not observe non-flammable gas cylinders stored within a flammable cage. This item is closed.</p>

Table 1: Previous Audit Findings

Audit Year	Finding	2019 Audit Status
2018	<i>Opportunity for Improvement</i> During the site visit, a drum of liquid waste oil was located on a skid near the doorway.	During the site visit, BluMetric Auditors did not observe drums located near doorways. This item is closed.
2018	<i>Opportunity for Improvement</i> The outcomes of monthly and annual meetings with the MECP are not documented by the Region of Durham.	The Region of Durham has indicated that, in discussions with the local Environmental Officer for the MECP, meeting minutes of monthly and annual meetings will not be documented. This item is closed.
2018	<i>Opportunity for Improvement</i> During the site visit, there was a vehicle driving the wrong way on a one way section of the road.	Signage and arrows painted on the asphalt drive were visible in 2020. This item is closed.

3.2 POSITIVE FINDINGS

Several specific positive findings were noted during the current audit as described below.

- On site staff was positive during their interactions with auditors and willing to answer questions and explain their roles and responsibilities.
- The quantity of waste located in the waste pit of the Tipping Building is documented daily using a semi-quantitative worksheet that converts the waste height in sectors into a mass.
- There is an overall high level of awareness of environmental concerns at the site and many efforts are made to minimize/eliminate potential environmental impacts. When issues arise, immediate corrective action steps are taken to find a solution (e.g. unsigned manifest).
- Overall, there is evidence of a strong occupational, health and safety (OHS) culture with program and controls in place to protect workers.

Non-compliance (Table 2) and opportunities for improvement (Table 3) are presented in the following sections.

3.3 NON-COMPLIANCES

Table 2: Findings – Non-Compliances

ID		Condition	Finding/Observation	Recommendation
1		ECA 8(2) The Owner shall ensure that the entrance and exit doors into the Tipping Building, the Residue Building and the Grizzly Building are kept closed at all times except to permit the entry or exit of the respective waste transport vehicles and waste handling equipment into and out of these Buildings.	During the site visit, the door of the Grizzly Building (facing West) was open and there was no evidence of waste handling equipment entering or exiting the building.	Ensure that the Grizzly Building doors are kept closed when waste handling equipment is not in use.

3.4 OPPORTUNITIES FOR IMPROVEMENT

Table 3: Findings – Opportunities for Improvement

ID	Finding/Observation	Recommendation
1	The loader used for bottom ash, fly ash, ferrous and non-ferrous transport is reportedly blown off with compressed air when switching to different waste. The SOP-L-Ref-001 Loader Cleaning Procedure does not indicate that air is a method of cleaning.	If deemed to be an acceptable practice, consider adding this cleaning method to the SOP.
2	During the site visit, a small quantity of liquid was noted on the floor beside a drum used to decant waste oil. The waste oil drum was fitted with a screen at the top and was sitting on top of spill containment. The waste oil drum was located indoors and no pathways to the environment were evident (refer to Appendix E for a photograph).	Consider investigating how the small quantity of oil dripped onto the floor, why it was not cleaned up and why it was not reported.
3	The facility sign located at the entrance to the site was observed to have shrubs covering the lowermost part of the sign.	Considering maintaining the shrubs to ensure that the site signage does not be blocked from view (ECA condition 3(1)).
4	During the site visit, there was one small cage with compressed gas cylinders, located adjacent to a larger cage, which did not have a “No Smoking” sign (ECA 3(2)).	Ensure that a “No Smoking” sign is affixed to the small cage.

4 AUDIT CONCLUSIONS

During the audit, facility personnel were cooperative throughout the process. Personnel were responsive to feedback and demonstrated an interest in developing and implementing corrective measures, which reflects the personnel's commitment and the site's culture with respect to environmental protection.

For the 2019 operational year, DYEC operated in general accordance with environmental legislations and their EA conditions. One new non-compliance was identified for the 2019 operational year. Four opportunities for improvement were noted pertaining to the loader cleaning procedure, waste oil drum spill, and site signage. There are two outstanding items remaining from previous operational external audits that pertain to the updating of a Spill Contingency and Emergency Response Plan and the placement of visual screenings.

Respectfully submitted,
BluMetric Environmental Inc.

Jessica Petrocco, M. Eng., P. Eng., EP (CEA)
Auditor

Philippa McPhee, B.Sc.
Auditor

Ian Macdonald, M. Sc., P. Geo., EP (CEA)
Senior Auditor

APPENDIX A
Limiting Conditions

LIMITATIONS AND CONDITIONS

The International Organization for Standardization (ISO) 19011: Guidelines for the audit of quality and / or environmental management systems, states that there is an element of uncertainty in any environmental audit because it is limited in time and requires limited resources. This results in audit evidence being based on a sampling of available information. In order to maintain a reasonable budget and conform to time restraints, audits are always based upon a sampling of processes, systems, operations and documents. Not every single document, operation, system, process, or piece of information relating to environmental performance can be reviewed. The size of the sample selected by the auditors is appropriate to the size and scale of the operation and information available. Objective evidence collected by the auditor is based upon the sampling.

BluMetric Environmental Inc.'s (BluMetric™) use of audit protocols, recognized auditing practices and a team of qualified professionals is intended to minimize the risk of errors and omissions as a result of time and resource restraints allocated for the audit.

The results of this audit are based on document review, site visit (both remote and in person) and interviews with personnel of DYEC. The audit results cannot be considered as a guarantee that all potential non-compliances have been identified. BluMetric accepts no responsibility for the validity of the report for persons other than DYEC. Please note that this report does not constitute legal advice.

The text should be read as a whole, since sections taken out of context could be confusing. Should there be any discrepancies between the draft and the final version of this report, the most recent version shall prevail.

APPENDIX B
Audit Plan



AUDIT PLAN

Name of Audit and Site	Date of Site Visit
Third Party Independent Audit of the Durham York Energy Centre Facility Operations BluMetric Project No. 180225	Remote Audit September 1 & 2, 2020 Outdoor Site Tour September 2, 2020

BluMetric Audit Team and Certification/ Qualification
<p>Ian Macdonald, M.Sc., P.Geo, EP (CEA), Senior Review p. 519.742.6685 x212 e. imac@blumetric.ca</p> <p>Philippa McPhee, B.Sc., Project Team Lead and Compliance Auditor p. 905.242.1244 e. pmcphee@blumetric.ca</p> <p>Jessica Petrocco, M.Eng., P.Eng., Project Engineer and Lead Auditor p. 613.839.3053 x273 e. jpetrocco@blumetric.ca</p>
DYEC Audit Team
<p>Lyndsay Waller – Operations Technician O’Neil Wright – Internal Auditor Amanda Huxter – Covanta Representative Andrew Evans – DYEC Project Manager Representative – Regional Municipality of York</p>
Audit Objectives
<p>The objective of the project is to conduct the 2020 annual third party independent audit of the Durham York Energy Centre (DYEC) Facility Operations. The operations audit is being carried out to satisfy Condition 16 of the DYEC Environmental Assessment (EA) Notice of Approval and Condition 15(2) of the Environmental Compliance Approval (ECA). This is the third of a three year audit contract with BluMetric Environmental Inc. (BluMetric).</p>



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Audit Scope and Criteria	
<p>The audit scope includes the entire DYEC facility and operations per the <i>2013 Third Party Audit Operations Phase Plan</i>. The 2020 audit will include the 2019 reporting year (RY19) from January 1, 2019 to December 31, 2019. The Audit will be completed in September 2020 instead of April due to access restrictions imposed due to COVID-19. The ability of the facility to defer the audit was requested in a letter to the MECP dated April 14, 2020 with accompanying revision (Revision 1) to the Operations Phase Audit Plan dated April 7, 2020. The new language permitting the audit reschedule in the event of an emergency situation was acknowledged by the MECP in a letter dated May 6, 2020.</p> <p>The audit criteria will include the requirements of the site ECA and EA Notice as noted above and applicable federal, provincial and municipal regulatory criteria.</p>	
Audit Approach and Methodology	
<p>The audit will be completed in accordance with the CSA Z773-17 Environmental Compliance Auditing Standard as well as:</p> <ul style="list-style-type: none"> • IAF MD 4:2018 (Issue 2) IAF Mandatory Document for the Use of Information and Communication Technology (ICT) for Auditing/Assessment Purposes • IAF ID 12:2015 (Issue 1) Principles on Remote Assessment <p>Remote auditing will be accomplished using MS Teams.</p> <p>BluMetric will execute a three-phase work plan to meet the scope of work and project deliverable deadlines.</p> <p>Phase I - Planning and Audit Preparation Activities including: audit planning discussion; examination of background documentation; preparation and submission of the Audit Plan; review and update of the audit-specific checklist, planning interviews and updating the Health & Safety Plan to meet additional precautions due to COVID-19.</p> <p>Phase II - Examination through remote and on-site (outdoor only) audit & analysis.</p> <p>Phase III - Reporting including draft and final reports; debriefings</p>	

Audit Activities, Schedule & Deliverables	
Submission of Audit Plan to DYEC	August 4, 2020
Approval of Audit Plan	August 14, 2020
Preparation of HASP	August 21, 2020
Remote & On-Site Audit (see below)	September 1 & 2, 2020
Draft Final Report Submission to DYEC	September 11, 2020
Meeting – Draft Report Discussion	September 16, 2020
Comments from DYEC	September 18, 2020
Final Report to MECP & Invoicing	September 25, 2020

Remote Audit - Day One	Time
Opening Meeting: Introduction, validation of the objectives, confirmation of site safety requirements and audit activities of the day	09h00
Virtual Site Tour (inside Plant)	09h30
Lunch	12h00
Interviews / Document Review	12h30
Interim Closing Meeting	16h15 to 16h30

On Site & Remote Audit - Day Two	Time
Opening Meeting: confirmation of the audit activities of the day.	09h00
On-Site Tour (property perimeter, scale house, ash house, tipping floor); Virtual Tour to return to any areas	09h30
Lunch	12h00
Interviews / Document Review, review of previous audit findings and related corrective actions	12h30
Auditor Preparation for Closing Meeting	15h30
Closing Meeting	16h00 to 16h30

Roles and Responsibilities of Participants to the Audit

Lead Auditor: ensure that the audit team members conduct the examination phase according to the Audit Plan.

Auditors: gather evidence, collect information, assess conformance status and present the preliminary results

Site Representative: prepare the required documentation, ensure safe access to facilities, ensure the availability of resources such as staff availability for interviews and visits, ensure the availability of a working area for the auditors during the audit and a meeting room for the opening and closing meetings

Document Availability – DYEC Website

We anticipate that the following documents will be available on the DYEC website and will be reviewed prior to the on-site audit.

- Annual Solid Waste Diversion Report, York Region
 - Groundwater and Surface Water Monitoring Report
 - 2019 Annual ECA Report
 - 2019 Complaint, Inquiry Protocol & Logs
 - 2019 Odour Management and Mitigation Monitoring Report
 - DYEC 201 Compliance Monitoring Report, EA condition 5
 - DYEC Ambient Air Monitoring Program, Fenceline Monitor and Temporary TSP Notification Procedure
 - DYEC Facility Annual Reports 2015 to 2019
 - DYEC Submission of the 2019 Compliance Monitoring Report (EA Condition 5: Compliance Reporting)
 - DYEC Third Party Audit Plans & Reports
 - Overview of Ambient Air Monitoring Programs in Durham Region, MECP, July 2018
 - Project Agreement
 - Ambient Air Quality Monitoring Reports
- Waste Management Annual Report, Region of Durham

Document Availability – During Audit

The following list of documents should be available for review during the audit. Additional documentation may be requested as discovered.

- Updated as-built drawings
- Pest Control Management Program and Reports
- Ambient Air Monitoring Correspondence
- Ambient Air Monitoring & Emission Testing Reports
- Consumables, Equipment and Spare Parts List
- Covanta Annual Sewage Inspection Report
- Covanta Annual Sewage Works Inspection Report
- Covanta CRO Log Book
- Covanta DYEC Bottom Ash Sampling Record
- Covanta DYEC Emergency Action Plan/Fire Safety Plan
- Covanta Emergency Diesel Generator Data Record Sheet
- Covanta Environmental 5 day Notification Report
- Covanta Evacuation/Emergency Drill Report
- Covanta Meter Reading File, Pit Inventory
- Covanta Outside Environmental Checklists
- Covanta Production Activities and Data
- Covanta Shift Engineer Log Book
- Covanta Spill Report Forms
- Covanta Spill Report Log
- Covanta Weekly Environmental Site Inspection Form
- Customer/Material Report
- Daily Waste Logs
- Durham Region Daily and Monthly Checklist
- MECP Annual meeting minutes/notes
- Durham York Energy Centre Odour Plans & Reports Binder
- DYEC Groundwater and Surface Water Monitoring Plan and Reports Binder
- DYEC Training Matrix
- DYEC Waste Screening Report - Tipping Floor
- DYEC Weekly Environmental Site Inspection Form

Document Availability – During Audit

- ODS Maintenance/leak test logs
- ODS inventory
- HVAC ODS Inspector Technician Licence
- Letter to the Ministry regarding Notice of Emergency Storage of Waste
- Waste manifests
- SDS Binder in Control Room
- Public Complaint Binder in Control Room
- Radiation Detection Form
- Fire Inspection Report
- Scale House Calibration Records
- TDG Certificates
- Testing results of bottom ash
- TSSA Certificates
- Unacceptable Waste Logs
- WHMIS training records
- Storage Tank Inspection Reports

Agreement with Audit Plan

The signatures of both the DYEC Audit Coordinator and Lead Auditor are required to indicate that they agree with the Audit Plan

Print Name of DYEC Coordinator:

Signature:

Date:

Print Name of Lead Auditor:

Signature:

Date:

APPENDIX C

List of Records and Documents Reviewed

LIST OF RECORDS AND DOCUMENTS REVIEWED

Reviewed from the DYEC Website

- 2018 Annual Solid Waste Diversion Report, York Region
- 2018 DYEC Third Party Independent Audit Report - Operations Year 2018, MECP acknowledgement letter dated October 9, 2019
- 2018 Third Party Independent Audit DYEC Facility Operations Phase Audit Report
- 2018 Waste Management Annual Report 2018, Region of Durham
- 2019 Annual Groundwater and Surface Water Monitoring Report, RWDI, April 20, 2020
- 2019 Complaint and Inquiry Logs
- 2019 DYEC Facility Operations Annual ECA Report
- 2019 DYEC Facility Operations Annual Report Submission Letter
- 2019 Odour Management and Mitigation Monitoring Report, Covanta Durham York Renewable Energy, November 2019
- DYEC 2019 Compliance Emission Testing in Accordance with Amended ECA No. 7306-8FDKNX, ORTECH dated November 18, 2019
- DYEC 2019 Compliance Monitoring Report, dated October 25, 2019.
- DYEC 2019 Voluntary Compliance Emission Testing Program, ORTECH November 25, 2019
- DYEC GW and SW Monitoring Plan Request to Amend GW Monitoring Frequency, Ministry Letter dated May 7, 2019
- DYEC Operations Phase Audit Plan Revision 1, April 7, 2020
- DYEC Operations Phase Audit Plan Revision 1 and Third Party Audit Report - Operations year 2019, MECP Approval Letter dated May 6, 2020
- RWDI, Annual Ambient Air Quality Monitoring Report: Continuous and Periodic Monitoring Program, May 13, 2020
- RWDI, Q1 Ambient Air Quality Monitoring Report, May 14, 2019
- RWDI, Q2 Ambient Air Quality Monitoring Report, August 12, 2019
- RWDI, Q3 Ambient Air Quality Monitoring Report, November 14, 2019
- RWDI, Q4 Ambient Air Quality Monitoring Report, February 10, 2020

Reviewed On Site

- Abell Pest Management Program, January 22, 2019
- 2019 Annual Groundwater and Surface Water Monitoring Report. RWDI April 20, 2019
- 2019 Annual GW Durham Region submission to MECP dated April 27, 2020

- 2019 ESDM (Appendix 27 Dispersion Modelling Results for the 2019 Testing Program, Ortech [Technical Memo dated November 18, 2019 from Golder Associates]).
- 2019 GHGRP - Confirmation of Submission, dated July 31, 2020
- 2019 GHGRP Report Preview
- 2019 NPRI Report Preview, Report Submitted July 26, 2020
- Ambient Air Monitoring Report Q1. RWDI May 14, 2019 - Submission May 15, 2019 RWDI
- Ambient Air Monitoring Report Q1. Addendum RWDI November 30, 2019
- Ambient Air Monitoring Report Q2. RWDI August 12, 2019 - Submission August 14, 2019 RWDI
- Ambient Air Monitoring Report Q2. MECP - Data validation September 13, 2019
- Ambient Air Monitoring Report Q2. Addendum RWDI November 11, 2019
- Ambient Air Monitoring Report Q3. RWDI November 14, 2019 - Submission November 14, 2019 RWDI
- Ambient Air Monitoring Report Q4. RWDI February 14, 2020 - Submission February 14, 2020 RWDI
- C-0200 Rev 9 Grading and Drainage Partial Plan, December 23, 2014
- C-0201 Rev 7 Grading and Drainage Partial Plan, December 23, 2014
- Covanta 2019 Complaints/Concerns Received at DYEC log
- Covanta 2019 Annual Sewage Inspection Forms, October 28, 2019
- Covanta Admin - August 2019, Personal Training Record, WHMIS and GHS
- Covanta Crew A - August 2019, Personal Training Record, Hazardous Materials, SHE WIN
- Covanta Crew B - August 2019, Personal Training Record, Hazardous Materials, SHE WIN
- Covanta Crew C - August 2019, Personal Training Record, Hazardous Materials, SHE WIN
- Covanta Crew D - August 2019, Personal Training Record, Hazardous Materials, SHE WIN
- Covanta CRO Daily Log April 29, 2019, August 22, 2019, December 12, 2019
- Covanta CRO Log Book January 13 - 14, 2019, March 27 - 28, 2019, August 1 - 2, 2019, October 10 - 11, 2019
- Covanta Diesel Fuel Delivery Checklist, February 12, 2019
- Covanta Diesel Fuel Delivery Checklist, September 9, 2019
- Covanta DYEC Bottom ash Sampling Record, February 5, 6 and 7, 2019
- Covanta DYEC Bottom ash Sampling Record, May 14, 2019

- Covanta DYEC Bottom ash Sampling Record, July 16, 2019
- Covanta DYEC Bottom ash Sampling Record, November 5, 2019
- Covanta DYEC Spill Report Log: Year 2019
- Covanta DYEC Summary of Laboratory Results: Bottom Ash - Loss of Ignition (ASTMD5468) Q4 2017 CASTP to Q3 2020
- Covanta DYEC Weekly Environmental Site Inspection Form, week of January 14, 2019
- Covanta DYEC Weekly Environmental Site Inspection Form, week of April 29, 2019
- Covanta DYEC Weekly Environmental Site Inspection Form, week of May 13, 2019
- Covanta DYEC Weekly Environmental Site Inspection Form, week of October 7, 2019
- Covanta Environmental 5 day Notification Report, CO Exceedance July 20, 2019, Spills Centre Ref # 8354-BEAAGJ
- Covanta Environmental 5 day Notification Report, CO Exceedance May 4, 2019 Spills Centre Ref # 5253-BBUDN3
- Covanta Hazardous Materials Training Powerpoint, August 2019
- Covanta Maint' - Sept 2019, Personal Training Record, Hazardous Material, Boiler Fouling Safety
- Covanta Manifest summary 2018 (ON7245228)
- Covanta Meter Reading File, Pit Inventory for May 18, 2019
- Covanta Odour Log, Jan 2 and 22, 2019, February 4, 2019, September 21 to October 4, 2019
- Covanta Ops - August 2019, Personal Training Record, Hazardous Materials, SHE WIN
- Covanta Outside Environmental Checklist, February 16, 2019, Completed by K. Remillard
- Covanta Outside Environmental Checklist, April 15, 2019, Completed by D. Allen
- Covanta Outside Environmental Checklist, August 1, 2019, Completed by K. Remillard
- Covanta Outside Environmental Checklist, December 16, 2019, Completed by D. Allen
- Covanta Spill Reporting Form, August 20, 2019
- Covanta Spill Reporting Form, October 11, 2019
- Covanta Unacceptable Waste Log, January to March 29, 2019
- Covanta Unacceptable Waste Log, March 29 to June 21, 2019
- Covanta Unacceptable Waste Log, June 24, to September 17, 2019

- Covanta Unacceptable Waste Log, September 18 to December 19, 2019
- Covanta Waste Screening Report - Tipping Floor, January 4, 2019
- Covanta Weekly Emergency Diesel Generator Data Record, September 7, 2019
- Covanta Weekly Diesel Fire Pump Test Log, July 1, 2019
- Covanta Year-End Report, 2019
- Customer/Material Reports - December 2019
- Durham Daily Odour Monitoring Log Sheet January to December 2019
- Durham Monthly OHS/Operational Workplace Inspections for May and October 2019.
- Durham Regional submission to MECP requesting reduction in monitoring during 418 construction.
- Email from Ministry Phil Dunn re: DYEC Notice of Emergency Storage of Waste dated March 19, 2019
- Email from Ministry Phil Dunn re: DYEC Notice of Emergency Storage of Waste dated September 21, 2019
- Email submission of Annual Report to the waste to energy committee - March 30, 2019 from the DYEC Administrative Assistant Melodie Smart
- Emergency Generator Inspection - Shift Engineer Log Book February 7, 2019
- Emergency Generator Inspection - Shift Engineer Log Book March 14, 2019
- Emergency Generator Inspection - Shift Supervisor Email December 5, 2019
- Letter to the Ministry regarding Notice of Emergency Storage of Waste, dated March 19, 2019
- Letter to the Ministry regarding Notice of Emergency Storage of Waste, dated September 21, 2019
- Letter to the Ministry regarding the Termination of Notice of Emergency Storage of Waste, Dated April 18, 2019
- Letter to the Ministry regarding the Termination of Notice of Emergency Storage of Waste, Dated October 8, 2019
- Manifest CA40374-4, February 8, 2019 brown copy 6
- Manifest CA40374-4 email chain between Amanda Huxter, Covanta and Dawn Leeder, GFL, April 1, 2019
- Manifest CF044924-3, June 10, 2019 green copy 2, brown copy 6
- Manifest CF043323-9 June 28, 2019 green copy 2, brown copy 6
- Manifest CF040334-9, September 20, 2019 green copy 2, brown copy 6
- Manifest CF041214-2, December 4, 2019 green copy 2, brown copy 6
- MS Outlook Meeting Request for the monthly DYEC meetings with MECP, Covanta, and York and Durham Regions - Third Thursday of each month in 2019.

- Ontario Ozone Depletion Prevention Card, Mark James Rooth, Expiry August 30, 2023
- Ontario Exterminator Licence, Charles Macaluso, Expiry April 30, 2024
- Ontario Pesticides Operator Licence, Abell Pect Control Inc., Expiry Date December 31, 2019
- Saturn Scale Systems, Inc., Scale Calibration Report, May
- Saturn Scale Systems Inc. Truck Scale Calibration Report, Aug 20, 2019
- Saturn Scale Systems Inc. Truck Scale Calibration Report, October 23, 2019
- SGS Analysis Report (Bottom Ash), February 19, 2019
- SGS Analysis Report (Bottom Ash), May 31, 2019
- SGS Analysis Report (Bottom Ash), July 31, 2019
- SGS Analysis Report (Bottom Ash), November 21, 2019
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed August 15, 2017, Amanda Huxter
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed October 18, 2017, Joe Macload
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed December 13, 2017, Josh Purcell
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed August 5, 2018, Francis Trottier
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed July 15, 2019 Ken Coatham
- TSSA Ontario Certificate of Registration of a Plant, January 26, 2017
- TSSA Certificate of Inspection, expiry date December 11, 2020
- VIPOND Inspection Certificate for the inspection of Life Safety Systems, November 19, 2019
- VIPOND Pump Performance Test Data Report, May 29, 2019
- VIPOND Fire Alarm and Life Safety System Inspection Report, Inspection Date October 25, 2019
- VIPOND Fire Suppression Inspection Report, Inspection Date November 18, 2019
- VIPOND Sprinkler Inspection Report, Inspection Date November 19, 2019

APPENDIX D
ECA and EA Checklists

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
1	GENERAL Compliance ECA 1(1) The Owner shall ensure compliance with all the conditions of this Certificate and shall ensure that any person authorized to carry out work on or operate any aspect of the Site, including the Works, is notified of this Certificate and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.	2019 ECA Annual Report submitted March 30, 2020 to the MECP. Employee and contractor training completed as per the Covanta Operator Qualification Program and Environmental Training Matrix, as appropriate.
2	ECA 1(2) Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Certificate.	2019 ECA Annual Report and as observed during the site visit.
3	Build in Accordance ECA 1(3)(a) Except as otherwise provided by this Certificate, the Site shall be designed, developed, built, operated, monitored, inspected and maintained in accordance with the following applications: (i) Applications for a Certificate of Approval (Air) dated March 2, 2011, each signed by Cliff Curtis, Commissioner of Works, The Regional Municipality of Durham, by Erin Mahoney, Commissioner of Environmental Services, The Regional Municipality of York and by Matthew R. Mulcahy, Senior Vice President, Business Development, Covanta Durham York Renewable Energy Limited Partnership, and the Supporting Documentation listed in the attached Schedule "A".	No changes made in 2019
4	ECA 1(3)(a)(ii) Applications for a Provisional Certificate of Approval (Waste Disposal Site) dated March 2, 2011, each signed by Cliff Curtis, Commissioner of Works, The Regional Municipality of Durham, by Erin Mahoney, Commissioner of Environmental Services, The Regional Municipality of York and by Matthew R. Mulcahy, Senior Vice President, Business Development, Covanta Durham York Renewable Energy Limited Partnership, and the Supporting Documentation listed in the attached Schedule "A".	No changes made in 2019
5	ECA 1(3)(a)(iii) Applications for a Certificate of Approval of Municipal and Private Sewage Works dated March 2, 2011, each signed by Cliff Curtis, Commissioner of Works, The Regional Municipality of Durham, by Erin Mahoney, Commissioner of Environmental Services, The Regional Municipality of York and by Matthew R. Mulcahy, Senior Vice President, Business Development, Covanta Durham York Renewable Energy Limited Partnership, and the Supporting Documentation listed in the attached Schedule "A".	No changes made in 2019
6	ECA 1(3)(b)(i) Any design optimization or modification that is inconsistent with the conceptual design set out in the Supporting Documentation in Schedule "A" shall be clearly identified, along with an explanation of the reasons for the change and submitted to the Director for approval.	No changes made in 2019
7	ECA 1(3)(b)(ii) If a change to the conceptual design is submitted to the Director for approval, no construction of the Site shall commence prior to the Director approving, in writing, the final conceptual design of the Site.	N/A
8	As-built Drawings ECA 1(4): (a) Within ninety (90) days of the completion of the initial successful Source Testing program, a set of as-built drawings showing the Facility and the Works and bearing the stamp of a Professional Engineer, shall be prepared and retained at the Site. (b) These drawings shall be kept up-to-date through revisions undertaken from time to time and a copy shall be retained at the location of the Site or at the operational office of the Owner for the operational life of the Site. (c) Notwithstanding provisions of Condition 1(4)(b), an amendment to this Certificate shall be sought for changes to the as-built drawings, requiring approval. (d) The as-built drawings shall be made available to Ministry staff upon request.	As-built drawings were located in the Visitor Center. The most recent date on the as-built drawing located in the Visitor Center was October 27, 2016. Facility staff noted that there were no changes to the as-built drawings in 2019.

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
9	<p>Interpretation ECA 1(5) Where there is a conflict between a provision of any document, including the application referred to in this Certificate and the conditions of this Certificate, the conditions in this Certificate shall take precedence.</p> <p>(6) Where there is a conflict between the applications and a provision in any documents listed in Schedule "A", the applications shall take precedence, unless it is clear that the purpose of the document was to amend the applications and that the Ministry approved the amendment.</p> <p>(7) Where there is a conflict between any two documents listed in Schedule "A", other than the applications, the document bearing the most recent date shall take precedence.</p> <p>(8) The requirements of this Certificate are severable. If any requirement of this Certificate, or the application of any requirement of this Certificate to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this Certificate shall not be affected thereby.</p>	N/A
10	<p>Other Legal Obligations ECA 1(9) The issuance of, and compliance with the conditions of this Certificate does not:</p> <p>(a) relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or</p> <p>(b) limit in any way the authority of the Ministry to require certain steps be taken or to require the Owner to furnish any further information related to compliance with this Certificate.</p>	Legal Listing is maintained for the Facility's ISO 14001 Certification. Compliance Obligations Table last updated on May 7, 2020.
11	<p>Adverse Effects ECA</p> <p>1(10) The Site shall be constructed, operated and maintained in a manner which ensures the health and safety of all persons and prevents adverse effects on the natural environment or on any persons.</p> <p>(11) The Owner shall take steps to minimize and ameliorate any adverse effect on the natural environment or impairment of water quality resulting from the approved operations at the Site, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.</p> <p>(12) Despite the Owner or any other person fulfilling any obligations imposed by this Certificate, the person remains responsible for any contravention of any other condition of this Certificate or any applicable statute, regulation, or other legal requirement resulting from any act or emission that caused the adverse effect to the natural environment or impairment of water quality.</p> <p>(13) If at any time odours, pests, litter, dust, noise or other such negative effects are generated at this Site and cause an adverse effect, the Owner shall take immediate appropriate remedial action that may be necessary to alleviate the adverse effect, including suspension of all waste management activities if necessary.</p>	<p>11) Not applicable for 2019.</p> <p>12) Covanta maintains a legal registry (Compliance Obligations Table). Compliance obligations are discussed during monthly Operations meeting. The Region uses a Compliance and Reporting calendar to highlight reporting and submission deadlines.</p> <p>13) Daily and monthly checklist are completed by the Region to record negative effects such as odour, pests, litter, dust, noise or other. Abell Pest Management Program (Abell Pest Control) last updated Jan 22, 2019. There are 43 exterior stations and 23 interior stations, based on the 2019 Monthly Pest Control Status Reports.</p> <p>During the site visit an empty truck leaving the facility was noted to be slightly odourous.</p> <p>Durham conducts daily site walks and community drives to log odour from various sources around the facility. Not required but done to help respond to complaints. Observed Durham Daily Odour Monitoring Log Sheet January to December 2019.</p> <p>Durham also conducts monthly OHS/Operational Workplace Inspections. Observed inspections from May and October 2019.</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
12	<p>Change of Ownership ECA 1(14) amended The Regions shall notify the Director in writing, and forward a copy of the notification to the District Manager, within thirty (30) days of the occurrence of any changes:</p> <p>(a) the ownership of the Site; (b) the operator of the Site; (c) the address of the Regions; (d) the partners, where the Regions are or at any time become a partnership and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c. B.17, as amended, shall be included in the notification; (e) the name of the corporation where the Regions are or at any time become a corporation, other than a municipal corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C.39, as amended, shall be included in the notification.</p>	No change of Ownership in 2019
13	<p>ECA 1(15) amended No portion of this Site shall be transferred or encumbered prior to or after closing of the Site unless the Director is notified in advance. In the event of any change in ownership of the Site, other than change to a successor municipality, the Regions shall notify the successor of and provide the successor with a copy of this Approval, and the Regions shall provide a copy of the notification to the District Manager and the Director.</p>	No change of Ownership in 2019
14	<p>Inspections by the Ministry ECA 1(16) No person shall hinder or obstruct a Provincial Officer from carrying out any and all inspections authorized by the OWRA, the EPA, the PA, the SDWA or the NMA of any place to which this Certificate relates, and without limiting the foregoing:</p> <p>(a) to enter upon the premises where the approved processing is undertaken, or the location where the records required by the conditions of this Certificate are kept; (b) to have access to, inspect, and copy any records required to be kept by the conditions of this Certificate; (c) to inspect the Site, related equipment and appurtenances; (d) to inspect the practices, procedures, or operations required by the conditions of this Certificate; (e) to conduct interviews with staff, contractors, agents and assignees of the Owner; and (f) to sample and monitor for the purposes of assessing compliance with the terms and conditions of this Certificate or the EPA, the OWRA, the PA, the SDWA or the NMA.</p>	No MECP Inspection Reports were issued in 2019.
15	<p>Information ECA 1(17) Any information requested by the Ministry, concerning the operation of the Site and its operation under this Certificate, including but not limited to any records required to be kept by this Certificate, manuals, plans, records, data, procedures and supporting documentation shall be provided to the Ministry, in a timely manner, upon request.</p>	There were no specific requests by the Ministry in 2019. As per the 2019 ECA Annual Report, the facility was operating in compliance with the ECA with the exception of 2 events in 2019 (see Item 86). In 2019, there were no excursions to Performance Requirements as listed in Condition 6.
16	<p>ECA 1(18) The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action, under this Certificate or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:</p> <p>(a) an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Certificate or any statute, regulation or other legal requirement; or (b) acceptance by the Ministry of the information's completeness or accuracy.</p>	N/A
17	<p>ECA 1(19) The Owner shall ensure that a copy of this Certificate, in its entirety and including all its Notices of Amendment and the Supporting Documentation listed in Schedule "A" are retained at the Site at all times.</p>	Copies of the ECA Certificate and Notices are available on site and on the company's website.

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
18	SERVICE AREA, APPROVED WASTE TYPES, RATES and STORAGE ECA 2(1) The service area for the Site is the area within the jurisdictional boundaries of The Regional Municipality of Durham and The Regional Municipality of York.	As listed in Section 2.2 of the 2019 ECA Annual Report, the waste sources are from the Regional Municipality of Durham and York.
19	ECA 2(2) The operation of this Site is limited to: (a) receipt, temporary storage, transfer and processing, including thermal treatment, of solid non-hazardous waste remaining after Waste Diversion required by the EA Approval, limited to Waste from the following sources: (i) domestic waste and Industrial Commercial and Institutional waste from the Regions' curbside collection and/or from the Regions' waste management facilities; and (ii) waste generated on-Site through activities not relating to the handling and processing of Waste (ie. office, lunch room, etc.); (b) collection and management of the storm water run-off generated at the Site.	Refer to Item 18. 2018 Durham Region Waste Management Annual Report. 2018 York Region Annual Solid Waste Diversion Report. Staff description of programs in place.
20	ECA 2(3) The following Unacceptable Waste is prohibited from being accepted at the Site: (a) hazardous waste, as defined in the O. Reg. 347; (b) wastes which have been source-separated for the purposes of diversion.	As stated in Section 32.3 of the Project Agreement and SOP DYEC-REF-007 Unacceptable Waste Receiving, Handling, Storage and Disposal, Revision 3 October 9, 2018, the Contractor shall not knowingly accept any delivery of unacceptable waste. The SOP defines the terms hazardous waste and unacceptable waste. In 2019, unacceptable waste included pipes, bath tub, helium tank, soft tub hot tub, propane tanks, excavator track, and truck bed line.
21	ECA 2(3) (c) international waste generated outside of Canada, but collected within the jurisdictional boundaries of The Regional Municipality of Durham and The Regional Municipality of York.	Refer to Item 18.
22	ECA 2(4) Waste Receipt Rate: (a) The maximum daily amount of Waste that is approved to be accepted at the Site shall not exceed 1,520 tonnes per day.	2019 ECA Annual Report, Section 2.3 states that the maximum amount received in one day was 1,047.57 tonnes on December 27, 2019. Review of Customer Material Reports.
23	Storage Restrictions: Solids ECA 2(5)(a) A maximum of 7,350 cubic metres shall be stored inside the Waste pit within the Tipping Building as shown in the Supporting Documentation.	2019 ECA Annual Report, Section 2.3 states that the greatest amount of waste stored in one day was 2,883 tonnes (6,947 m ³) on May 24th, 2019. Confirmed on site with the Meter Reading File that the Pit Inventory at midnight on May 24, 2019 was 2,883 tonnes. Pit inventory is a semi-quantitative worksheet that converts height into volume into mass.
24	ECA 2(5)(b) Rejected Waste, limited to the Bulky Unprocessable Items removed from the incoming Waste in the Tipping Building shall be stored: (i) in two (2) roll-off bins having a maximum total storage capacity of 30 cubic metres, located within the confines of the Tipping Building; and/or (ii) in the appropriate dedicated bunkers, located within the confines of the Residue Building and described in Conditions 2(5)(c), 2(5)(d) and 2(5)(d).	In 2019, there was one shipment of Bulky Unprocessable Items on December 23, 2019. One bin was noted in the Tipping Building during the site visit.
25	ECA 2(5)(b)(iii) amended The Owner may use equipment used to handle the hazardous wastes to handle other wastes provided that prior to such use the equipment has been thoroughly cleaned first.	Loader is used for bottom ash, fly ash, ferrous and non-ferrous. On-site operator (Cody) indicated that it is blown off using compressed air when switching to different waste. SOP-L-REF-001 Loader Cleaning Procedure did not indicate air as a method of cleaning. If deemed to be an acceptable practice, consider adding to SOP.

Appendix D1
Environmental Compliance Approval (ECA) Audit Table

Item	Condition	Supporting Evidence Sept 1-2, 2020
26	ECA 2(5)(c) amended A maximum of approximately 77 tonnes or 106 cubic metres of the Residual Waste, limited to the recovered ferrous metals, shall be stored in one (1) dedicated bunker, located within the confines of the Residue Building, described in the Supporting Documentation.	2019 ECA Annual Report, Table 5 (daily maximum of 60 tonnes was reported in November 2019). The size of the bunker will not permit the storage of the maximum allowable limit. Observe bunker while onsite. Pick up scheduled today.
27	ECA 2(5)(d) amended A maximum of approximately 120 tonnes or 100 cubic metres of the Residual Waste, limited to the recovered non-ferrous metals, shall be stored in one (1) dedicated bunker, located within the confines of the Residue Building, described in the Supporting Documentation.	2019 ECA Annual Report, Table 5 (daily maximum of 40 tonnes was reported in September 2019). The size of the bunker will only permit the storage of up to the maximum allowable limit. Observed bunker while onsite. Less than half full.
28	ECA 2(5)(e) amended A maximum of 630 tonnes of the Residual Waste, limited to the bottom ash shall be stored in two (2) dedicated bunkers, located within the confines of the Residue Building, described in the Supporting Documentation.	2019 ECA Annual Report, Table 5 (daily maximum of 247 tonnes was reported in December 2019). The size of the bunkers will not permit the storage of the maximum allowable limit. Observed bunker while onsite. Both about half full.
29	ECA 2(5)(f) amended A maximum of 700 tonnes of the Residual Waste, limited to the fly ash shall be stored in seven (7) dedicated bunkers, located within the confines of the Residue Building, described in the Supporting Documentation.	2019 ECA Annual Report, Table 5 (daily maximum of 156 tonnes was reported in January 2019). The size of the bunkers will not permit the storage of the maximum allowable limit. Observed bunker while onsite. Bunker 4 and 7 empty; others half full; B1 filling.
30	ECA 2(5)(g) A maximum of 85 cubic metres of activated carbon for the carbon injection system shall be stored in one (1) outdoor tank, located adjacent to the APC Building.	Tank observed during site visit. No observations.
31	ECA 2(5)(h) A maximum of 150 cubic metres of lime for the dry scrubber shall be stored in one (1) or more indoor tank(s), located within the confines of the APC Building.	Lime storage vessel observed during virtual tour. No observations.
32	ECA 2(5)(i) If required, recirculated residue shall be stored in one (1) or more indoor tank(s), located within the confines of the APC Building.	Observed during virtual tour. No observations.
33	ECA 2(5)(j) amended A maximum of 65 cubic metres of cement for fly ash conditioning shall be stored in one (1) outdoor silo, located adjacent to the Residue Building.	Silo observed during site visit. No observations.
34	ECA 2(5)(k) amended A maximum of 105 cubic metres of pozzolan for fly ash conditioning shall be stored in one (1) outdoor silo, located adjacent to the Residue Building.	Silo observed during site visit. No observations.
35	Liquids ECA 2(5)(l)(i) amended A maximum of 57 cubic metres of aqueous ammonia for the SNCR System shall be stored in one (1) outdoor tank, located adjacent to the Residue Building.	Storage vessel observed during site visit.
36	ECA 2(5)(l)(ii) The Owner shall ensure that the aqueous ammonia storage tank is equipped with a liquid level monitoring device designed to provide a visual and an auditory alarm when the high level set point is reached.	Monitoring/alarm equipment observed during site visit.
37	ECA 2(5)(l)(iii) The aqueous ammonia storage tank spill containment area and the loading area shall be designed in accordance with the requirements in the Ministry's document entitled "Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities" dated May 2007, as amended.	Ammonia containment observed during site visit. Water level checked during the daily Outdoor Environmental Checklist and weekly Environmental Site Inspection. Water in sump of secondary containment only on September 2, 2020. 2,4 and 6" fill lines marked in secondary containment; pumped out to grass surface when gets to 2". Pumping events documented on outside environmental checklists.
38	ECA 2(6) No outdoor storage of waste, including storage in vehicles, is approved under this Certificate.	None observed during the site visit. The only exception would be the empty compressed gas cylinders (unacceptable waste) stored outside of the tipping floor in a secure cage (approved by Ministry in 2018).

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
39	ECA 2(7) The Owner shall ensure that storage of all wastes is undertaken in a manner that does not cause an adverse effect or a hazard to the environment or any person.	During the site visit it was observed that storage and containment of wastes was managed to prevent an adverse effect. Trucks were closed, doors were closed before unloading / loading, very little litter was observed.
40	ECA 2(8)(a) amended Waste received at the Site shall be processed within six (6) days from its receipt at the Site.	See item 41.
41	ECA 2(8)(b) amended Emergency Storage of Waste Requirements: (i) On emergency basis only, the storage duration of Waste inside the tipping pit may be extended beyond the limit set out in Condition 2.(8)(a) above, subject to compliance with the following requirements: (A) prior to the start of the emergency storage of Waste, the Owner shall notify, in writing, the District Manager that the incoming Waste will be stored longer than six (6) days from its receipt; (B) any additional information that the District Manager may require shall be submitted within a time period acceptable to the District Manager; (C) the proposed preventative measures for emergency storage of Waste as identified in the Operations and Maintenance Manual shall be implemented upon commencement of the emergency storage of Waste and shall remain in effect for the entire duration of the emergency storage, unless otherwise advised by the District Manager; and (D) the Owner shall notify, in writing, the District Manager when emergency storage is no longer required.	Covanta DYEC - Notice of Emergency Storage of Waste, dated March 19, 2019 (as a result of Boiler maintenance). The emergency storage was required from March 25 to 29, 2019. Covanta DYEC - Notice of Emergency Storage of Waste, dated September 21, 2019 (as a result of Boiler maintenance). The emergency storage was required from September 23 to 27, 2019.
42	ECA 2(9) In the event that Waste cannot be processed at the Site and the Site is at its approved storage capacity, the Owner shall cease accepting additional Waste. Receipt of additional Waste may be resumed once such receipt complies with the waste storage limitations approved in this Certificate.	Maximum storage capacity not reached in 2019, see item 23.
43	Signs and Site Security ECA 3(1) Prior to receipt of Waste at the Site, the Owner shall ensure that a sign is posted at the entrance to the Site. The sign shall be visible from the main road leading to the Site. The following information shall be included on the sign: (a) name of the Owner; (b) this Certificate number; (c) hours during which the Site is open; (d) waste types that are approved to be accepted at the Site; (e) Owner's telephone number to which complaints may be directed; (f) Owner's twenty-four hour emergency telephone number (if different from above); (g) a warning against unauthorized access; and (h) a warning against dumping at the Site.	Observed sign during site visit and included all items listed. The lowermost part of the sign was covered with scrubs; this could be cut back.
44	ECA 3(2) The Owner shall ensure that appropriate and visible signs are posted at the Site clearly identifying the wastes and the process reagents and stating warnings about the nature and any possible hazards of the wastes and the reagents.	Observed during site visit. There was one small cage located adjacent to a larger cage that were formally near Maintenance. The small cage did not have a 'No Smoking' sign. A 'No Smoking' sign should be affixed to this cage in the event that it is separated from the others.
45	ECA 3(3) The Owner shall ensure that appropriate and visible signs are posted at the Site to prohibit smoking, open flames or sources of ignition from being allowed near any flammable materials storage areas.	Observed "no smoking" signs during site visit. Designated smoking area located outside of the facility employee entrance. Changed to end of driveway, on actual road, off Region property.
46	ECA 3(4) The Owner shall install and maintain appropriate and visible signs at the Site to direct vehicles to the Waste receiving and Residual Waste removal areas and to the reagent unloading areas.	Observed signs and painted arrows on roadways during site visit. Scale House operators can provide a road map for drivers new to the site.
47	ECA 3(5) The Owner shall post appropriate and visible signs along the traffic route providing clear directions to the Site.	There are visible signs and painted arrows on roadway directing traffic to the Site.

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
48	ECA 3(6) The Owner shall ensure that the Site is fenced in and that all entrances are secured by lockable gates to restrict access only to authorized personnel when the Site is not open.	Observed signs during site visit. Lockable gates and doors were observed. Access to on site buildings and operations is restricted only to authorized personnel. Monthly Health and Safety/Operational - Workplace Inspection are completed by the Region. This includes a check of the fence, gate and security.
49	ECA 3(7) The Owner shall ensure that access to the Site, with the exception of the area designated as a Public Information Centre, is regulated and that no unauthorized persons are permitted at the Site without the Trained Personnel escort.	Confirmed during site visit. No unauthorized persons permitted in the facility. Facility entrances are locked. There is a buzzer to enter the visitor centre. Contractors are required to sign in at the front desk.
50	ECA 3(8) The Owner shall ensure that the Site is operated in a safe and secure manner, and that Waste, the Residual Waste and the Unacceptable Waste are properly handled, packaged or contained and stored so as not to pose any threat to the general public and the Site personnel.	Observed during site visit that waste is handled and stored inside. Waste areas are well labeled. Residual Waste is stored in the Residue Building. SOP DYEC-REF-007 Unacceptable Waste Receiving, Handling, Storage and Disposal, Revision 3 October 9, 2018. Unacceptable waste is logged on the Unacceptable Waste Log form, indicating the item, truck ID, Transfer Station and Destination at the facility. The date removed, manifest #, hauler and receiver are also documented. No extreme odour reported on waste logs reviewed.
51	Site Operations: Operating hours: ECA 4(1)(a) The Site is approved to operate twenty-four (24) hours per day three hundred and sixty-five (365) days per year. ECA 4(1)(b) Notwithstanding Condition 4.(1)(a), Waste shall only be received at the Site and the Residual Waste shall only be transferred from the Site between 7:00 a.m. and 7:00 p.m. Monday to Saturday. No receipt of the Waste or transfer of the Residual Waste shall be undertaken on statutory holidays.	(b) Scale hours and Covanta staff confirmed that waste and residual waste are only transferred from the Site between 7:00am and 7:00 pm Monday to Saturday.
52	ECA 4(1)(c) Emergency Receipt of Waste: (i) The Owner may receive Waste at the Site outside of the operating hours specified in Condition 4(1)(b), above, on an emergency basis only. (ii) Within twenty four (24) hours from the receipt of Waste outside of the approved receiving hours, the Owner shall notify, in writing, the District Manager that Waste was received outside of the approved receiving hours. (iii) Should there be complaints about Waste shipments outside of the approved hours, the Owner, in consultation with the District Manager, shall determine the cause of the complaint, propose appropriate abatement measures and implement the said measures upon receiving written concurrence from the District Manager within the time frame acceptable to the District Manager.	i) no emergency event was reported in 2019 ii) N/A iii) no complaints reported regarding waste shipments outside of the approved hours.

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
53	<p>ECA 4(2) Site Operations: Incoming Waste receipt:</p> <p>(a) At the weigh scale, the Trained Personnel shall:</p> <p>(i) inspect the required documentation prior to acceptance of the incoming Waste at the Site; and</p> <p>(ii) inspect the incoming Waste with radiation detection equipment. (b) In the Tipping Building, the Trained Personnel shall:</p> <p>(i) visually inspect all incoming Waste being unloaded into the Waste pit; and</p> <p>(ii) once per hour, or as accepted by the District Manager, unload the incoming Waste on the tipping floor for a manual visual inspection and sorting of the incoming Waste.</p> <p>(c) The Owner shall only accept the incoming Waste that is delivered in vehicles that have been approved by the Ministry.</p> <p>(d) The Owner shall ensure that all unloading of incoming Waste at the Site takes place entirely within the confines of the Tipping Building.</p>	<p>Through discussion with the scale house operator:</p> <p>(a) (i) Waste deliveries are entered into the system before the truck arrives; operator verifies that it is an approved supplier. Any deliveries that appear to be smoldering would be directed to Hot Load Area (NW corner).</p> <p>(ii) radiation detectors scan truck; if there is an alarm, ask truck to re-pass detectors; if alarm persists, then check with hand held device to isolate location; if persists then load rejected. None recorded in 2019.</p> <p>Through discussion with tipping floor operator:</p> <p>(b) (i) visual inspection of incoming waste on tipping floor once per hour</p> <p>(ii) DYEC Waste Screening Report - Tipping Floor, identifies truck ID, odour, unacceptable waste and sign off.</p> <p>(c) refer to (a) above.</p> <p>(d) unloading was conducted indoors with doors closed.</p>
54	<p>ECA 4(3) Site Operations: Unacceptable Waste handling:</p> <p>(a) In the event that waste that is not approved under this Certificate is inadvertently accepted at the Site, the Owner shall ensure that the Unacceptable Waste:</p> <p>(i) is stored in a way that ensures that no adverse effects result from its storage;</p> <p>(ii) is segregated from all other waste;</p> <p>(iii) is handled and removed from the Site in accordance with the O. Reg. 347 and the EPA; and</p> <p>(iv) is removed from the Site within 90 days of its receipt or as acceptable to the District Manager.</p> <p>(b) The Owner shall ensure that all loading of the Unacceptable Waste into transport vehicles is carried out entirely within the confines of the Tipping Building.</p>	<p>2019 ECA Annual Report, Section 2.3 states that unacceptable waste is stored in a secure bermed area which ensures no adverse effects from the storage. Based on an external fire safety inspection the MECP notified DYEC on June 11, 2018, to store empty compressed gas cylinders outside of the tipping floor in a secure cage.</p> <p>4(3) (i-iii) SOP DYEC-REF-007 Unacceptable Waste Receiving, Handling, Storage and Disposal in place. Storage of unacceptable waste storage area observed during the site visit.</p> <p>4(3) (iv) Confirmed with waste manifest for 2019 (storage <90 days).</p> <p>4(3) (b) SOP states that the loading of unacceptable waste into transport vehicles carried out entirely within the confines of the tipping building.</p>
55	<p>ECA 4(4) Waste Sorting:</p> <p>(a) The Trained Personnel shall remove the Bulky Unprocessable Items and Unacceptable Waste from the incoming Waste prior to charging of the Waste to the Boilers.</p> <p>(b) All sorting of the incoming Waste at the Site shall be undertaken indoors, within the confines of the Tipping Building and/or the Refuse Building.</p>	<p>During the site visit unacceptable waste was observed to be segregated and sorted in the Tipping Building.</p> <p>Residual burned tanks also observed at end of Grizzly Building.</p>
56	<p>ECA 4(5)(a) Residual Waste Handling and Disposal:</p> <p>(a) (i) Except for transportation of the Residual Waste between the Grizzly Building and the Residue Building, the Owner shall ensure that all handling of the bottom ash and its segregated constituents, and of the fly ash, is undertaken within the confines of enclosed conveyors and enclosed buildings.</p> <p>(ii) The Owner shall ensure that all loading of the Residual Waste into vehicles for its transport from the Site is carried out entirely within the confines of the Residue Building.</p>	<p>i) Observed enclosed conveyors and enclosed buildings during the site visit.</p> <p>ii) As stated by Covanta personnel and within SOPs.</p>

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57	<p>ECA 4(5) Residual Waste Handling and Disposal:</p> <p>(b) (i) Different constituents of the Residual Waste shall not be comingled prior to the required compliance testing, unless all Residual Waste is to be disposed of at a Waste Disposal Site that is approved to accept hazardous waste.</p> <p>(ii) The Owner shall ensure that the equipment used in handling of the hazardous wastes or that came in direct contact with the hazardous wastes is not used to handle other wastes.</p> <p>(iii) Amended: The Owner may use the equipment that comes in contact with the hazardous wastes to handle other wastes provided that prior to such use, the equipment has been cleaned, as confirmed by visual inspections, to ensure the removal of any hazardous waste residues and to prevent cross contamination.</p>	<p>b)i) as stated by Covanta personnel.</p> <p>ii-iii) Loader is used for bottom ash, fly ash, ferrous and non-ferrous. It was reportedly blown off with compressed air when switching to different waste. SOP-L-REF-001 Loader Cleaning does not include blowing off with air. This should be added to SOP if an acceptable practice.</p>
58	<p>ECA 4(5) Residual Waste Handling and Disposal:</p> <p>(c) (i) Only haulers approved by the Ministry shall be used to transport the Residual Waste from the Site.</p> <p>(ii) The Residual Waste shall be transported from the Site in appropriately covered vehicles that will not allow fugitive dust emissions to be emitted into the natural environment during the said transport.</p>	<p>(c) (i-ii) Only MECP approved haulers are used and are listed in the Odour Management & Mitigation Monitoring Report, Table 1: Challenger Motor Freights Inc. U-Pak Disposals Limited J.E. Culp Transport</p> <p>The scale house operators perform an inspection of the hauler vehicles upon arrival and departure to ensure there are no obvious leaks or dripping waste. In 2019 there were no issues reported. The scale house operator did show a new (2020) visual instruction to drivers instructing them not to begin to open their doors until inside the tipping floor. In discussion with approved haulers, it is more likely broken seals than operational practices.</p> <p>ii) The Region and Covanta check for trucks to ensure that the covers are in place. Observed only covered transport vehicles on site.</p>
59	<p>ECA 4(5) Residual Waste Handling and Disposal:</p> <p>(d) Residual Waste generated at the Site shall be disposed of shall only be disposed of at an approved waste disposal site in accordance with the requirements in the EPA and the O. Reg. 347 or at a location with the appropriate jurisdictional approval or a license, if required.</p>	<p>2019 ECA Annual Report, Section 3.1 indicates that the residual waste was transferred to Walker Industries, South Landfill located in Niagara Falls, ON.</p>
60	<p>ECA 4(5) Residual Waste Handling and Disposal:</p> <p>4.(5)(e) A maximum of 630 tonnes of the Residual Waste, limited to the bottom ash shall be stored in two (2) dedicated bunkers, located within the confines of the Residue Building, described in the Supporting Documentation. The storage duration is as follows:</p> <p>(i) The storage duration is limited to a maximum of seven (7) days.</p> <p>(ii) Should longer storage duration be required to accommodate the duration of the required compliance testing, a minimum of forty eight (48) hours before the storage extension is commenced, the Owner shall notify the District Manager of the required extension. The notification shall include the duration of the extension and the reasons."</p>	<p>2019 ECA Annual Report, Table 5 (daily maximum of 247 tonnes was reported in December 2019).</p> <p>Observed that bunkers of bottom ash were about half full during the site visit.</p> <p>See Item 28 - Removed maximum storage duration - Amendment March 14, 2016.</p>
61	<p>ECA 4(6) Wastewater Management (a) The Owner shall ensure that all wastewater generated at the Site is contained within enclosed buildings, tanks, pipes and conveyors at the Site and the approved outdoor Wastewater Settling Basin.</p>	<p>No process drains to the sanitary or storm sewers. Two settling ponds observed during the site visit. Both were near capacity due to recent rains. No visible sheen was observed. Spill kits were in place at each. Lifering recently added to each.</p>

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Item	Condition	Supporting Evidence Sept 1-2, 2020
62	<p>ECA 4(6) Wastewater Management</p> <p>(b) The Owner shall ensure that all wastewater generated at the Site is collected in leak-proof and sufficiently designed wastewater storage facilities:</p> <p>(i) Wastewater Holding Tank, to collect the continuous reject water flow from the Boiler make-up water treatment system and the Boiler blowdown, having an approximate holding capacity of 100 cubic metres, located within the confines of the Boiler Building and venting to the atmosphere; and</p> <p>(ii) Wastewater Settling Basin, to collect the wastewater from the floor drains in the buildings at the Site, except for the Tipping Building and the Residue Building, the ash discharger overflow and drain water, the Boiler and turbine-generator wash-down water and the APC Equipment area wash-down water, having an approximate holding capacity of 38 cubic metres, located outdoors, open to the atmosphere and equipped with a filter basket and an oil skimmer board.</p>	<p>See item 61</p> <p>(b) Observed wastewater settling basin. During virtual tour, observed drains in process building going to settling basin. Settling basin is equipped with a filter basket and oil skimmer board.</p> <p>No pump outs were required in 2019.</p>
63	<p>ECA 4(6) Wastewater Management (c) The wastewater pumps shall be located in the area designed in accordance with the Supporting Documentation to ensure that any potential leaks or drips are contained and directed to the Wastewater Settling Basin.</p>	<p>No change in 2019.</p>
64	<p>ECA 4(6) Wastewater Management (d)</p> <p>(i) The wastewater level in the Wastewater Holding Tank shall be monitored and controlled to ensure that the wastewater inflow to the Tank does not cause the Tank overflow.</p> <p>(ii) The wastewater level in the Wastewater Settling Basin shall be monitored and controlled to ensure that the atmospheric precipitation does not cause an overflow from the Basin.</p>	<p>i) observed during site visit</p> <p>ii) When required, portable frac tanks to pump overflow (required during shutdown), then wastewater is released back to settling basin when water level drops.</p> <p>Wastewater Settling Basin is inspected during the daily Covanta inspection (Outdoor Environmental Checklist) for storm water pooling and leaks. Sediment is removed from basin in April and November and treated with fly ash material.</p>
65	<p>ECA 4(6) Wastewater Management (e) The Owner shall regularly empty, and clean as necessary, all sumps, wastewater storage/holding areas and equipment that are used to contain, collect and handling the wastewater generated at the Site.</p>	<p>Covanta identified that the sumps, drains and holding areas are emptied and cleaned out as required.</p>
66	<p>ECA 4(6)(f) Should the Owner find it necessary to remove the wastewater from the Site, the wastewater shall only be disposed of at a Ministry-approved site in accordance with the site's certificate of approval or be discharged to the sanitary sewer in accordance with the agreement with the municipality accepting the discharge.</p>	<p>No wastewater disposed from site in 2019.</p>
67	<p>ECA 4(6) (g) The floors of the Tipping Building and the Residue Building shall be sufficiently sloped to facilitate the flow of the wastewater generated from the floor cleaning activities and from the truck wash-down towards the designated wastewater collection area.</p>	<p>Completed and no updates in 2019</p>
68	<p>ECA 4(6) (h) The Owner shall ensure that the Wastewater Settling Basin is regularly cleaned out and that it does not become a source of odour emissions.</p>	<p>No odour noted during site visit. See item 66.</p>
69	<p>ECA 4(7) All activities approved under this Certificate shall only be carried out by appropriately Trained Personnel.</p>	<p>Covanta Operator Qualification Program and Environmental Training Matrix are used for training purposes.</p>

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Item	Condition	Supporting Evidence Sept 1-2, 2020
70	<p>5. EQUIPMENT and SITE INSPECTIONS and MAINTENANCE Operation and Maintenance</p> <p>(1) Prior to the receipt of the Waste at the Site, the Owner shall prepare and update as necessary, an Operation and Maintenance Manual for all the Equipment, the APC Equipment, the CEM Systems, the Works and any other equipment associated with managing of the Waste and with the control of environmental impacts from the Facility. The Manual shall be prepared in accordance with the written manufacturer's and/or supplier's specifications and good engineering practice. As a minimum, the Operation and Maintenance Manual shall specify:</p> <p>(a) operation procedures of the Equipment, the APC Equipment, the CEM Systems, the Works, and any other equipment associated with managing of the Waste and with the control of environmental impacts from the Facility, in accordance with manufacturers' recommendations and good engineering practices to achieve compliance with this Certificate, the EPA, the OWRA and their Regulations.</p>	<p>Procedures are updated as necessary. Digital copies are available in the Covanta Library.</p>
71	<p>(b) calibration procedures for the CEM Systems as required by this Certificate;</p> <p>(c) procedures for start-up and shutdown, including Controlled Shutdown and Emergency Shutdown;</p> <p>(d) quality assurance procedures for the operation and calibration of the CEM Systems in accordance with 40 CFR 60, Appendix F or Report EPS 1/PG/7, as appropriate; (e) Waste receiving and screening procedures;</p> <p>(f) Waste, Rejected Waste and Residual Waste handling procedures; (g) testing and monitoring procedures as required by this Certificate.</p>	<p>Digital copies are available in the Covanta Library.</p>
72	<p>(h) maintenance and preventative maintenance procedures as required by this Certificate; (i) Facility inspection, including frequency of inspections, procedures;</p> <p>(j) procedure for handling complaints as required by this Certificate.</p> <p>(k) contingency measures to resolve upset conditions and/or minimize the environmental impacts from the Facility;</p> <p>(l) emergency response procedures, including procedures for dealing with power failure, fire, explosion, spills and any other potential emergencies;</p> <p>(m) procedures for record keeping activities as required by this Certificate;</p> <p>(n) description of the responsibilities of the Site personnel and the personnel training protocols; and</p> <p>(o) a list of personnel positions responsible for operation and maintenance, including supervisory personnel and personnel responsible for handling of the emergency situations, recording and reporting pursuant to the requirements of this Certificate, along with the training and experience required for the positions and a description of the responsibilities.</p> <p>(p) amended: all measures deemed necessary to prevent an occurrence of an adverse effect from the emergency storage of Waste.</p>	<p>h and i) Outside Environmental Checklist is completed daily.</p> <p>j) See Region EA and Public complaint SOP on site.</p> <p>k, l) Covanta DYEC Emergency Action Plan/Fire Safety Plan Revision 9.0 Updated October 14, 2016. See Section 10 for SOPs</p> <p>m) Record Keeping Procedures - part of initial training</p> <p>n) Covanta roles and responsibilities and training requirements</p> <p>o) Covanta roles and responsibilities and training requirements for emergency situations</p> <p>p) See item 41</p> <p>Regarding power generation (no specific spot in ECA checklist): the site purchased 859 MWh in 2019 during boiler shut down and start-up conditions.</p>
73	<p>ECA 5(2) A copy of this Operations and Maintenance Manual shall be kept at the Site, be accessible to the Site personnel at all times and be updated, as required. The Operations and Maintenance Manual shall be available for inspection by a Provincial Officer upon request.</p>	<p>Operations and Maintenance Manual available on site and accessible to site personnel.</p>
74	<p>ECA 5(3) The Owner shall implement the operation, maintenance, preventative maintenance and calibration procedures set out in the Operations and Maintenance Manual required by this Certificate.</p>	<p>SOPs have been implemented related to operation, maintenance, preventative maintenance and calibration. Use PeopleSoft for tasks and tracking. Covanta use Sphera for reminders to complete environmental tasks.</p>

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75	<p>Critical Spare Parts ECA 5(4) (a) The Owner shall prepare a list of critical spare parts, update this list annually or more frequently, if necessary, to ensure that this list is maintained up-to date and shall be available for inspection by a Provincial Officer upon request. (b) The Owner shall ensure that the critical spare parts are available at the Site at all times or are immediately available from an off-Site supplier.</p>	<p>Consumables, Equipment and Spare Parts DYEC Equipment Listing - December 31, 2019. Includes asset ID and description of equipment.</p>
76	<p>Inspections ECA 5(5) Prior to receipt of the Waste at the Site, the Owner shall prepare a comprehensive written inspection program which includes inspections of all aspects of the Site's operations including, but not limited to the following: (a) buildings and the indoor waste storage facilities and presence of dust and odour and leaks in or near any openings, such as doorways, window, vent, louver or any other opening; (b) outdoor Residual Waste transport equipment, and the presence of dust and leaks at or near transfer points or the equipment seams; (c) the Equipment, the APC Equipment, the CEM Systems, the Works and any other equipment associated with managing of the Waste and with the control of environmental impacts from the Facility.</p>	<p>Weekly Environmental Site Inspection Form and Daily Outside Environmental Checklist were observed.</p>
77	<p>(d) spill containment areas, loading areas and the conditions around the Wastewater Settling Basin; (e) security fencing, gates, barriers and signs; (f) off-site nuisance impacts such as odour, dust, litter, etc. (g) presence of storm water pooling at the Site; and (h) condition of the on-Site roads for presence of leaks and drips from the waste delivery trucks or excessive dust emissions.</p>	<p>Weekly Environmental Site Inspection Form and Daily Outside Environmental Checklist were observed.</p>
78	<p>Inspections ECA 5(6) The inspections, except for the inspection of the Works, are to be undertaken daily by the Trained Personnel in accordance with the inspection program to ensure that the Facility is maintained in good working order at all times and that no off-Site impacts are occurring. Any deficiencies detected during these regular inspections must be promptly corrected.</p>	<p>Weekly checklists - completed by Amanda Huxter, daily Outdoor Environmental Logs completed by the Utility Operator from the Residue Building. People Soft - schedule preventative maintenance, issues work orders and closes them out.</p>
79	<p>Inspections and Maintenance of the Works ECA 5(7) The Owner shall inspect the Works at least once a year and, if necessary, clean and maintain the Works to prevent the excessive build-up of sediments and/or vegetation.</p>	<p>Ponds were not cleaned out in 2019. They are checked daily and weekly by Covanta staff. An annual inspection (Annual Sewage Works Inspection, October 28, 2019) is conducted in the fall of every year to complete a detailed inspection of the settling ponds. Including vegetation, sediment, structure, headwall, discharge points, etc.). Includes inspection of drains to East and West Storm Pond.</p>
80	<p>Removed extraneous duplicate reference from this Table (see item 85).</p>	
81	<p>6. PERFORMANCE REQUIREMENTS ECA 6(1) The Owner shall, ensure that the Facility/Equipment is designed and operated in such a manner as to ensure that the following Performance Requirements are met: (a) the maximum 10-minute average concentration of odour at the most impacted Sensitive Receptor, resulting from the operation of the Facility/Equipment, calculated in accordance with the procedures outlined in the attached Schedule "B", shall not exceed 1 odour unit; (b) the noise emissions from the Facility shall comply with the limits set out in Ministry Publication NPC-205; (c) the vibration emissions from the Facility shall comply with the limits set out in Ministry Publication NPC-207.</p>	<p>6(1)(a) 2019 Odour Management & Mitigation Monitoring Report, Section 4.4 Source Odour Sampling. The maximum 10-minute average was 0.28 OU, less than 1.0 OU as stated in Schedule B. (b and c) noise not required, see item 97</p>

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82	<p>ECA 6(2) The Owner shall ensure that the Boilers and the associated APC Equipment and the CEM Systems are designed and operated in such a manner as to ensure that the following Performance Requirements are met:</p> <p>(a) (i) The temperature in the combustion zone of each Boiler shall reach a minimum of 1000 degrees Celsius (°C) for one second, prior to introduction of the Waste into the combustion chamber of the Boiler during the start-up, and thereafter maintained during the entire thermal treatment cycle and subsequent shutdown until all Waste combustion is completed.</p> <p>(ii) Compliance with the minimum temperature requirement shall be demonstrated by direct measurement at the location where the combustion gases have achieved the residence time of one second at a minimum temperature of 1000°C (the Target Location) or by correlation of the required temperature of 1000°C for one second to the temperature measured downstream of the Target Location as proven by a method acceptable to the Director.</p>	<p>In 2019, the Performance Requirements were met in terms of combustion temperature. Minimum temperature was recorded as 1056°C.</p>
83	<p>ECA 6(2)(b) The concentration of residual oxygen in the Undiluted Gases leaving the combustion zone via the economizer outlet of each Boiler, as measured and recorded by the CEM System, shall not be less than 6 percent by volume on a dry basis.</p>	<p>Confirmed that the CEM records the residual oxygen in the undiluted gases leaving the combustion zone. There was no low oxygen level reported in 2019.</p>
84	<p>ECA 6(2)(c)(i) The operational target for the concentration of carbon monoxide in the Undiluted Gases leaving the combustion zone via the economizer outlet of each Boiler is 40 milligrams per dry cubic metre, as a 4-hour rolling average, normalized to 11 percent oxygen at a reference temperature of 25°C and a reference pressure of 101.3 kilopascals, as measured and recorded by the CEM System, for the period from and including initial commissioning of the facility to twelve months following the completion of the first Source Testing program.</p>	<p>Completed and no updates in 2019</p>
85	<p>ECA 6(2)(c) (ii) The 4-hour average concentration of carbon monoxide in the Undiluted Gases leaving the combustion zone via the economizer outlet of each Boiler, as measured and recorded by the CEM System, shall not be more than 40 milligrams per dry cubic metre, normalized to 11 percent oxygen at a reference temperature of 25°C and a reference pressure of 101.3 kilopascals, after the first twelve months following the completion of the first Source Testing program.</p>	<p>Completed and no updates in 2019</p>
86	<p>ECA 6(2)(d) The emissions from the Boilers after those emissions have been controlled by the associated APC Equipment for discharge into the atmosphere via the Stack shall comply with the emission concentration limits listed in the attached Schedule "C", as measured by a CEM System or by Source Testing as applicable.</p>	<p>2019 ECA Annual Report, Section 5.3 states that there was an exceedance of the 4-hr CO rolling average on May 4th, 2019 (45 milligrams per dry cubic metre was recorded during the hour ending at 3:00 am) and on July 20th, 2019 (55 mg per dry cubic metre during the 11 pm hour). The boiler was shutdown briefly to correct the problem and restarted. The MECF Spills Action Centre was notified and a press release was issued. The cause was determined and SOP Boiler Start-up was revised to prevent future occurrences. 5-day notification reports send to the Ministry on May 9, 2019 and July 25, 2019.</p>
87	<p>ECA 6(2)(e) The Boilers shall include combustion air control systems, which are capable of automatically adjusting the distribution and the quantity of combustion air, in such a manner that changes in the Waste Processing Rate and/or Waste composition or irregularities in the loading and/or combustion shall not adversely affect the performance of the Boilers.</p>	<p>Observed on site in the Control Room.</p>

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Item	Condition	Supporting Evidence Sept 1-2, 2020
88	<p>ECA 6(2)(f) The Boilers shall provide and maintain a high degree of gas turbulence and mixing in the combustion chamber.</p> <p>(g) The Boilers shall achieve the temperature, oxygen availability and turbulence requirements over the complete range of operating parameters, including feed rate, feed characteristics, combustion air, flue gas flow rate and heat losses.</p> <p>(h) The inlet temperature into each baghouse of the APC Equipment of the Boilers shall not be less than 120°C and not more than 185°C.</p>	<p>Observed boiler parameters on the operator's screens in the Control Room. Limits are set for SO₂, HCL, NOx, HF, CO, O₂ dry, Baghouse Temperature and Combustion Temperature.</p> <p>Confirmed that inlet temperature to each baghouse of the APC Equipment was between 120 to 185 °C during the site visit.</p>
89	<p>ECA 6(3) The Owner shall install and maintain visual and audible alarm systems to alert the Facility/Equipment operators of any potential deviation from the above Performance Requirements for parameters that are continuously monitored by applicable CEM Systems and shall forthwith take all reasonable actions to bring the Equipment/Facility into compliance with all Performance Conditions.</p>	<p>Visual and audible alarms will alert if Performance Requirements are out of compliance monitored by CEM System.</p>
90	<p>ECA 6(4) In the event that the CEM Systems indicate that emissions from the Boilers and the Stack exceed any Performance Requirements in the attached Schedule "C" for a continuous three (3) hour period, the Owner shall forthwith cut-off all Waste feed into the affected Boiler and initiate an Emergency Shutdown, while maintaining a temperature of 1000°C, as practicable, in the combustion zone of the Boiler.</p>	<p>See Item 86.</p>
91	<p>Residual Waste Compliance Criteria ECA 6(5)(a) The Residual Waste generated at the Site and destined for a non-hazardous waste disposal site in Ontario shall not meet any of the criteria from the definition of "hazardous waste" set out in the O. Reg. 347. b) The Residual Waste that meets any of the criteria from the definition of "hazardous waste" set out in the O. Reg. 347 shall be handled and disposed of in accordance with the LDR requirements set out in the EPA and the O. Reg. 347.</p>	<p>2019 ECA Annual Report, Section 3.1.1 states that the results demonstrate that the bottom ash met the "incinerator ash" definition from Regulation 347 and that it could be managed as a non-hazardous solid waste.</p>
92	<p>Residual Waste Compliance Criteria ECA 6(6) The Residual Waste, limited to the bottom ash, destined for a non-hazardous waste disposal site shall meet the definition of "incinerator ash" set out in the O. Reg. 347.</p>	<p>See Item 91</p>
93	<p>TESTING, MONITORING and AUDITING</p> <p>Source Testing ECA 7(1) The Owner shall perform annual Source Testing in accordance with the procedures and schedule outlined in the attached Schedule "E", to determine the rate of emission of the Test Contaminants from the Stack. The first Source Testing program shall be conducted not later than six (6) months after the Commencement Date of Operation of the Facility/Equipment and subsequent Source Testing program shall be conducted once (1) every calendar year thereafter.</p>	<p>Voluntary Source Testing was conducted by Ortech Consulting Inc. between June 25 and June 28, 2019. The testing indicated that the Facility demonstrated compliance with all respective in-stack ECA limits.</p> <p>Ortech Consulting Inc. completed an emission testing program from September 9 to 13, 2019. The testing indicated that the Facility demonstrated compliance with all respective in-stack ECA limits.</p>

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94	<p>Continuous Monitoring ECA 7(2) The Owner shall select, test and install appropriate CEM Systems and continuous recording devices in accordance with the requirements outlined in the attached Schedule "F" to conduct and maintain a program to continuously monitor, as a minimum, the following parameters prior to commencement of operation of the Boilers:</p> <p>(a) the temperature at one (1) second downstream of the combustion zone of each Boiler where most of the combustion has been completed and the combustion temperature is fully developed;</p> <p>(b) the inlet temperature of the gases into each baghouse of the APC Equipment of each Boiler;</p> <p>(c) the concentration of carbon monoxide, oxygen and organic matter (as methane) in the Undiluted Gases leaving the combustion zone via the economizer outlet of each Boiler;</p> <p>(d) the opacity and moisture content of the flue gas and the concentration of oxygen, nitrogen oxides, sulphur dioxide, hydrogen chloride, hydrogen fluoride and ammonia in the Undiluted Gases leaving the baghouse of the APC Equipment of each Boiler.</p>	<p>Observed online and in control room.</p>
95	<p>Long-Term Sampling for Dioxins and Furans ECA 7(3)</p> <p>(a) The Owner shall develop, install, maintain and update as necessary a long term sampling system, with a minimum monthly sampling frequency, to measure the concentration of Dioxins and Furans in the Undiluted Gases leaving the APC Equipment associated with each Boiler. The performance of this sampling system will be evaluated during the annual Source Testing programs in accordance with the principles outlined by 40 CFR 60, Appendix B, Specification 4.</p> <p>(b) The Owner shall evaluate the performance of the long-term sampling system in determining Dioxins and Furans emission trends and/or fluctuations as well as demonstrating the ongoing performance of the APC Equipment associated with the Boilers.</p>	<p>2019 ECA Annual Report, Section 5.6 states that the samplers were operated to collect additional validation data during short-term sampling periods and for performance evaluation. The performance was compared to the voluntary and compliance emission testing performed by Ortech detailed in Item 93. Once the AMESA sampler generates more consistent data, long term data will be used to assess trends and the ongoing performance of the air pollution control system.</p>
96	<p>Ambient Air Monitoring ECA 7(4)</p> <p>(a) The Regions shall develop and implement the Ambient Air Monitoring and Reporting Plan, in accordance with the requirements set out in the EA Approval and as determined to be acceptable by the Regional Director.</p> <p>b) The Regions shall report the results of the Ambient Air Monitoring program to the Regional Director in accordance with the Ambient Air Monitoring and Reporting Plan and in accordance with the requirements of Condition 14.</p> <p>c) The Regions shall post the Ambient Air Monitoring and Reporting Plan and the results of the Ambient Air Monitoring program on the Owner's web site for the Facility in accordance with the requirements of the EA Approval and Condition 15.</p>	<p>Ambient Air Quality Monitoring Plan, Stantec Consulting Ltd., May 8, 2012. MOECC letters of acceptance May 30, 2012 and June 5, 2012.</p> <p>Ambient Air Quality Monitoring Reports 2019:</p> <p>Q1 - Quarterly Ambient Air Quality Monitoring Report, RWDI, May 14, 2019</p> <p>Q2 - Quarterly Ambient Air Quality Monitoring Report, Stantec, August 12, 2019</p> <p>Q3 - Ambient Air Quality Monitoring Report, RWDI AIR Inc., November 14, 2019</p> <p>Q4 - Ambient Air Quality Monitoring Report, RWDI AIR Inc., February 10, 2020</p> <p>website: Posted on Regions website: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/AmbientAir/AmbientAirReports2018.aspx</p>
97	<p>Noise Monitoring - Acoustic Audit ECA 7(5) revoked</p>	<p>A revised Noise Monitoring and Reporting Plan was submitted to the Ministry on June 27, 2017. Acknowledgement was received by Ministry on September 21, 2017. The February 24, 2016 amendment notice 4 revoked the requirement to conduct annual acoustic measurements.</p>
98	<p>Noise Monitoring - Acoustic Audit 7(6) revoked</p>	<p>see Item 97</p>

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99	<p>Residual Waste Testing ECA 7(7)</p> <p>(a) A minimum of six (6) months prior to the Commencement Date of Operation, the Owner shall submit to the Director for approval, a Testing Protocol for testing of the bottom ash for compliance with the criteria set out in the "incinerator ash" definition from the O. Reg. 347 and for testing of the Residual Waste for compliance with the criteria set out in this Certificate.</p> <p>(b) As a minimum, the Testing Protocol shall comply with the Ministry's regulatory requirements for sampling and testing of waste, including the requirements set out in the Ministry's document entitled "Principles of Sampling and Analysis of Waste for TCLP under Ontario Regulation 347", dated February 2002, as amended.</p>	<p>Complete and no updates in 2019.</p>
100	<p>(c) The Testing Protocol shall include the rationale for the proposed methods and the following:</p> <p>(i) a sampling protocol, including the proposed number of samples to be taken and their locations, to ensure that representative sample(s) are being tested for compliance with this Certificate;</p> <p>(ii) sample(s) handling and preserving procedures;</p> <p>(iii) analytical protocol for the applicable contaminants to ensure that appropriate analytical method(s) are being used for compliance testing required by this Certificate; and</p> <p>(iv) a testing protocol for the bottom ash during the Site commissioning period.</p> <p>(d) The Owner shall implement the Testing Protocol on the Commencement Date of Operation.</p>	<p>The MOECC approved the Ash Sampling and Testing Protocol dated June 2014 and was implemented on the Commencement Date of Operation, February 9, 2015.</p>
101	<p>(e) The Owner shall carry out the required bottom and fly ash compliance testing in accordance with the document entitled "Ash Sampling and Testing Protocol", listed in the attached Schedule.</p>	<p>The 2019 ECA Report states that the bottom ash testing results continue to meet the definition of solid non-hazardous material. Bottom Ash Test Checklist is used to document sampling. There was no fly ash testing completed in 2018 as per the Ash Sampling and Testing Protocol. The next fly ash testing will take place in fall 2020.</p>
102	<p>Residual Waste Testing ECA 7(8) For handling of the bottom ash as a solid non-hazardous waste, the Owner shall follow the following schedule for compliance testing:</p> <p>(a) for the Site commissioning period, the bottom ash shall be tested in accordance with the Testing Protocol approved by the Director;</p> <p>(b) for the period following the Site commissioning period, the bottom ash shall be tested for the content of the combustible materials on an annual basis, until the compliance testing results indicate that the bottom ash meets the "incinerator ash" definition from the O. Reg. 347 for three (3) consecutive years, following which a triennial compliance testing event may be carried out;</p>	<p>a) completed and no updates in 2019 b) see item 101</p>
103	<p>(c) should any annual or triennial compliance testing event indicate that the bottom ash does not meet the "incinerator ash" definition, prior to each of the next three (3) shipments from the Site, compliance testing of each of the three (3) shipments shall be carried out. Once three (3) consecutive tests re-establish compliance with the "incinerator ash" definition from the O. Reg. 347 and that the bottom ash does not exceed the Leachate Toxicity Criteria, the compliance testing schedule set out in Condition 7.(8)(b) may be resumed; and</p> <p>(d) should the results of any compliance testing of the bottom ash indicate that the concentrations of the leachate toxic contaminants in the bottom ash equal to or exceed the Leachate Toxicity Criteria, the bottom ash shall be handled as a hazardous waste. Once three (3) consecutive tests re-establish that the bottom ash does not exceed the Leachate Toxicity Criteria, the bottom ash compliance testing schedule set out in Condition 7.(8)(b) may be resumed.</p>	<p>See item 101.</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
104	<p>7 (9) (a) For handling of the bottom ash as a hazardous waste and for handling of the fly ash, prior to final disposal at a hazardous waste landfill site in Ontario, the Owner shall undertake any sampling and testing that would be required to comply with the LDR requirements set out in the EPA and the O. Reg. 347.</p>	See item 101.
105	<p>ECA 7(9)(b) The Owner shall follow the following schedule for compliance testing: (i) prior to each of the first three (3) shipments of the ash from the Site, the ash shall be tested so that for the compliance with the LDR requirements can be demonstrated;</p> <p>(ii) following the three (3) initial compliance testing events, the ash shall be tested on an annual basis, until the compliance testing results indicate that the ash meets the LDR requirements during the three (3) consecutive years, following which a triennial compliance testing may be carried out; and</p> <p>(iii) should any annual or triennial compliance testing event indicate that the ash does not meet the LDR requirements, prior to next three (3) shipments from the Site, compliance testing of each of the three (3) shipments shall be carried out. Once three (3) consecutive tests re-establish compliance with the LDR requirements, the compliance testing schedule set out in Condition 7.(9)(b)(ii) may be resumed.</p>	See item 101.
106	<p>Soil Testing: ECA 7(10)</p> <p>(a) Within one hundred and twenty (120) days from the date of this Certificate, the Regions shall undertake the soil testing in accordance with the Soil Testing Plan required by this Certificate.</p> <p>(b) The soil testing shall be repeated every three (3) years or as agreed upon in writing by the Regional Director.</p>	DYEC 2017 Soil Testing Report, RWDI, November 20, 2017. The next soil sampling will take place in August 2020.
107	<p>Disposal of Residual Waste</p> <p>ECA 7(11) The Owners shall ensure that no portion of the Residual Waste undergoing compliance testing is transferred from the Site until the results of the compliance testing required by this Certificate demonstrate compliance with the relevant Ministry's requirements.</p> <p>ECA 7(12) Bottom ash that is not a hazardous waste, as defined in the O. Reg. 347, may be disposed of at an approved non-hazardous waste landfill site or at a site approved to accept such waste by an appropriate government agency of equivalent jurisdiction.</p> <p>ECA 7(13) Residual Waste shall be treated to comply with the LDR requirements set out in the EPA and the O. Reg. 347 prior to disposal of at an approved hazardous waste landfill site or at a site approved to accept such waste by an appropriate government agency of equivalent jurisdiction.</p>	See item 101.
108	<p>Groundwater and Surface Water Monitoring</p> <p>ECA 7(14)</p> <p>(a) The Regions shall develop and implement the Groundwater and Surface Water Monitoring Plan, in accordance with the requirements set out in the EA Approval and as determined to be acceptable to the Regional Director.</p> <p>(b) The Regions shall report the results of the Groundwater and Surface Water Monitoring program to the Regional Director and to the Director in accordance with the schedule set out in the EA Approval and in accordance with the requirements of Condition 14.</p> <p>(c) The Regions shall post the Groundwater and Surface Water Monitoring Plan and the results of the Groundwater and Surface Water Monitoring program on the Owner's web site for the Facility in accordance with the requirements of the EA Approval and Condition 15.</p>	<p>a) Groundwater and Surface Water Monitoring Plan, Stantec, September 14, 2011 (submitted to MOECC September 15, 2011). MOECC letters of acceptance October 14, 2011. Request to MOECC for Change to Surface Water Monitoring Program, submitted April 29, 2016. MOECC letter of acceptance May 17, 2016. Ministry approved reduction in GW sampling frequency on May 7, 2019.</p> <p>b) 2019 Annual Groundwater Surface Water Annual Report, RWDI, April 20, 2020</p> <p>c) posted on web site: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/GroundSurfaceWaterReports.aspx</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence
109	<p>ECA 8 NUISANCE IMPACT CONTROL and HOUSEKEEPING Odour Management (1)</p> <p>(a) The Owner shall maintain a negative air pressure atmosphere in the Tipping Building at all times to contain any potential odours within the confines of the Tipping Building.</p> <p>(b) (i) Once per year, or as required by the District Manager, the Owner shall undertake a test to measure the worse case scenario negative air pressure atmosphere throughout the Tipping Building, while the activities approved in this Certificate are carried out in the Tipping Building.</p> <p>(ii) Notwithstanding the requirements set out in Condition 8.(1)(b)(i), the Owner shall install sufficient instrumentation to measure the air flow into the Boilers and demonstrate that adequate air flow is maintained to maintain a negative air pressure atmosphere throughout the Tipping Building.</p> <p>(c) In the event that adequate negative air pressure cannot be maintained, the Owner shall implement any necessary additional odour containment and control measures, including, but not necessarily limited to, those in the required Contingency and Emergency Response Plan.</p>	<p>Supporting Evidence Sept 1-2, 2020</p> <p>2019 Odour Management and Mitigation Monitoring Report, Covanta, November 2019: "regular maintenance and inspection activities are performed to ensure that doors and roof vents are closed and that the building envelope remains in good condition." Reviewed Waste Screening Report and Unacceptable Waste Logs.</p>
110	<p>ECA 8(2) The Owner shall ensure that the entrance and exit doors into the Tipping Building, the Residue Building and the Grizzly Building are kept closed at all times except to permit the entry or exit of the respective waste transport vehicles and waste handling equipment into and out of these Buildings.</p> <p>(3) The Owner shall ensure that, at all times, the air from the Tipping Building, the Residue Building, the Grizzly Building and from the Equipment is exhausted through an appropriate and fully functional APC Equipment approved by this Certificate.</p> <p>(4) The Owner shall undertake appropriate housekeeping activities, including regular cleaning of the tipping floor to control potential sources of fugitive odour emissions.</p> <p>(5) The Owner shall ensure that no Waste handling equipment or empty storage containers are stored outside, unless they have been washed to prevent fugitive odour emissions.</p>	<p>8(2) The door of the Grizzly building (facing west) was open during the site tour and no waste handling equipment was observed entering or exiting the building. All other doors were closed except for when receiving trucks.</p> <p>8(3) Observed during site visit - no reported issues or upsets in 2019.</p> <p>8(4) Interior of tipping floor was observed to be clean during site visit. Minor odour was noticed outside the tipping room floor when the door was open but it was reported as being the Clarington WPCP but auditor notices that it did wane when the door closed.</p> <p>8(5) No waste handling equipment or empty storage containers were observed to be stored outside.</p>
111	<p>ECA 8 (6) The Owner shall regularly clean all equipment and storage areas that are used to handle, process and store waste at the Site, including the surfaces of the outdoor spill containment areas, as required.</p> <p>(7) (i) Prior to the receipt of Waste at the Site, the Owner shall provide documentation which outlines the testing carried out by a licensed structural engineer to confirm the effectiveness of the containment in the buildings, conveyors and tanks and silos at the Site.</p> <p>(ii) The testing shall be carried out and repeated as directed by the District Manager in accordance with the test protocol prepared in consultation with and approved by the District Manager.</p> <p>(iii) These tests shall be repeated as directed or agreed by the District Manager.</p> <p>(8) The Owner shall prepare and implement an Odour Management and Mitigation Plan in accordance with the requirements set out in the EA Approval and as determined to be acceptable to the Regional Director.</p>	<p>8(6) Weekly Environmental Site Inspection Form and Outside Environmental Checklist</p> <p>8(7) (i-iii) no updates in 2019</p> <p>8(8) Odour Management and Mitigation Plan in place. 2019 Odour Management & Mitigation Monitoring Report, November 2019</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
112	<p>ECA 8(9) (a) In addition to the requirements set out in the EA Approval, the Odour Management and Mitigation Plan shall include the following:</p> <ul style="list-style-type: none"> (i) identification of all potential sources of odourous emissions;(ii) description of the preventative and control measures to minimize odourous emissions from the identified sources; (ii) description of the preventative and control measures to minimize odourous emissions from the identified sources; (iii) procedures for the implementation of the Odour Management and Mitigation Plan; (iv) inspection and maintenance procedures to ensure effective implementation of the Odour Management and Mitigation Plan; and (v) procedures for verification and recording the progress of the implementation of the Odour Management and Mitigation Plan. <p>(b) The Owner shall continue to submit an updated Odour Management and Mitigation Plan until such time as the Regional Director notifies the Owner in writing that further submissions are no longer required.</p>	<p>Odour Management and Mitigation Plan, Golder, Issued August 2011 and Revised December 2014</p> <ul style="list-style-type: none"> (i) Section 4.1 (ii) Section 4.4 (iii) Section 4.5 (iv) Section 5.0 v) Section 6.0 <p>(b) Acceptance letter from MOECC, August 21, 2012, regarding Odour Management and Mitigation Plan</p>
113	<p>ECA 8(10) Vehicles and Traffic</p> <ul style="list-style-type: none"> (a) The Owner shall ensure that all vehicles transporting waste to and from the Site are not leaking or dripping waste when arriving at or leaving the Site. (b) Should the Owner become aware that the truck(s) delivering waste to the Site have leaked wastewater on the municipal roadways, the Owner shall immediately report the violation to the owner of the vehicle(s) and to the District Manager. (c) The Owner shall ensure that the exterior of all vehicles delivering Waste to the Site or hauling waste from the Site is washed prior to the trucks' departure from the Site, if necessary. (d) Any necessary truck washing shall occur only in the designated wash down area of the Tipping Building or the Residue Building. 	<ul style="list-style-type: none"> a) None observed during site visit. Scale House operators inspect trucks upon arrival and departure. See also note above about visual instruction to drivers. b) None reported in 2019 c) Washing was not required in 2019 d) On site staff confirmed that if required washing would take place on the Tipping Floor. Covanta indicated that the loader is also occasionally washed on the tipping floor.
114	<p>ECA 8(11) The Owner shall ensure that there is no queuing or parking of vehicles that are waiting to enter the Site on any roadway that is not a distinct part of the Site.</p>	<p>Did not observe queuing or parked vehicles waiting to enter the site during the site visit.</p>
115	<p>ECA 8(12) Litter The Owner shall:</p> <ul style="list-style-type: none"> (a) take all practical steps to prevent the escape of litter from the Site; (b) pick up litter around the Site on a daily basis, or more frequently if necessary; and (c) if necessary, erect litter fences around the areas causing a litter problem. 	<p>Very minor litter was observed at the site on September 2, 2020. The roads are swept every weekend to remove litter and dirt.</p>
116	<p>ECA 8(13) Dust The Owner shall ensure that all on-site roads and operations/yard areas are regularly swept/washed to prevent dust impacts off-Site.</p>	<p>DYEC-Fugitive Dust and odour control SOP D-ENV-003 - Sweeper log. Outside environmental checklist.</p>
117	<p>ECA 8(14) Vermin and Vectors</p> <p>The Owner shall:</p> <ul style="list-style-type: none"> (a) implement necessary housekeeping procedures to eliminate sources and potential sources of attraction for vermin and vectors; and (b) hire a qualified, licensed pest control professional to design and implement a pest control plan for the Site. The pest control plan shall remain in place, and be updated from time to time as necessary, until the Site has been closed and this Certificate has been revoked. 	<p>Abell Pest Management Program (Abell Pest Control) last updated Jan 22, 2019. There are 43 exterior stations and 23 interior stations, based on the 2019 Monthly Pest Control Status Reports. Pest control bait stations observed throughout the facility, including exterior to the Grizzly Building.</p>
118	<p>Visual Screening ECA 8(15) The Owner shall provide visual screening for the Site in accordance with the documentation included in the attached Schedule "A".</p>	<p>Municipality of Clarington still needs to sign off on tree installation. The trees have been installed but continue to die-off; this has been an on-going issue. The type of tree that was approved by Municipality does not suit the area. Continuing to work on a solution with Covanta and Clarington.</p>

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Item	Condition	Supporting Evidence Sept 1-2, 2020
119	<p>9. STAFF TRAINING ECA 9(1) (a) The Owner shall ensure that all operators of the Site are trained with respect to the following, as per the specific job requirements of each individual operator: (i) terms and conditions of this Certificate and the requirements of the EA Approval; (ii) operation and management of the Site, or area(s) within the Site, as per the specific job requirements of each individual operator, and which may include procedures for receiving, screening and identifying Waste, refusal, handling, processing and temporarily storing wastes, operation of the Equipment, the APC Equipment, the CEM System and the Works; (iii) testing, monitoring and operating requirements; (iv) maintenance and inspection procedures;</p>	No change in 2019.
120	<p>(v) recording procedures; (vi) nuisance impact control and housekeeping procedures; (vii) procedures for recording and responding to public complaints; (viii) an outline of the responsibilities of Site personnel including roles and responsibilities during emergency situations; (ix) the Contingency and Emergency Response Plan including exit locations and evacuation routing, and location of relevant equipment available for emergency situations; (x) environmental, and occupational health and safety concerns pertaining to the wastes to be handled; (xi) emergency first-aid information; and (xii) relevant waste management legislation and regulations, including the EPA, the OWRA, the O. Reg. 347, the O. Reg. 419/05 and the Ministry guidelines affecting thermal treatment facilities.</p>	See item 119.
121	<p>ECA 9(2) The Owner shall ensure that all personnel are trained in the requirements of this Certificate relevant to the employee's position: (a) upon commencing employment at the Site in a particular position; (b) whenever items listed in Condition 9.(1) are changed or updated; and (c) during the planned refresher training.</p>	See item 119.
122	<p>10. COMPLAINTS / ODOUR-CONTAMINANT EMISSIONS RESPONSE PROCEDURE ECA 10(1) The Owner or a designated representative of the Owner shall be available to receive public complaints caused by the operations at the Site twenty-four (24) hours per day, seven (7) days per week.</p>	DYEC from Waste Complaint Protocol for Design, Construction and Operations, June 20, 2011. Online Feedback Form, email or telephone number as per website.
123	<p>ECA 10(2) If at any time, the Owner or the Ministry receives a complaint or the Owner or the Provincial Officer detects an emission of odour or any contaminant, (Emission Event), from the Site, in addition to the requirements set out in the EA approval, the Owner shall record all relevant information in the computerized tracking system and shall respond to the complaint/Emission Event according to the following procedure:</p>	Odour complaints were received on March 21, 2019, July 30, 2019 and September 6, 2019 and the MECP was notified as documented in the 2019 Complaint logs.
124	<p>Step 1: Record of Complaint/Emission Event ECA 10 (2)(a) (i) The Owner shall record each complaint/Emission Event and each record shall include the following: (A) name, address and the telephone number of the complainant, if known; (B) time and date of the complaint/Emission Event; (C) details of the complaint; and (ii) After the complaint/Emission Event has been recorded in the tracking system, the Owner shall immediately report to the District Manager by phone or e-mail during office hours and to the Ministry's Spills Actions Centre at 1-800-268-6060 after office hours on the receipt of the complaint or occurrence of the Emission Event.</p>	See item 123.

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Item	Condition	Supporting Evidence Sept 1-2, 2020
125	<p>Step 2: Investigation and Handling of Complaint/Emission Event ECA 10(2)(b)</p> <p>The Owner shall immediately initiate investigation of the complaint/Emission Event. As a minimum, the investigation shall include the following: (i) determination of the activities being undertaken at the Site at the time of the complaint/Emission Event;</p> <p>(ii) meteorological conditions including, but not limited to the ambient temperature, approximate wind speed and its direction.</p> <p>(iii) determination if the complaint is attributed to activities being undertaken at the Site and if so, the possible cause(s) of the complaint/Emission Event; and</p> <p>(iv) determination of the remedial action(s) to address the cause(s) of the Complaint/Emission Event, and the schedule for the implementation of the necessary remedial action(s).</p>	See item 123.
126	<p>ECA 10(2)(c) The Owner shall respond to the complainant, if known, and the response shall include the results of the investigation of the Complaint, the action(s) taken or planned to be taken to address the cause(s) of the Complaint, and if any follow-up response(s) will be provided.</p> <p>(d) Upon completed investigation of the Complaint/Emission event, the Owner shall, within three (3) business days, submit a report to the District Manager on the Complaint, on the action(s) taken or planned to be taken to address the cause(s) of the Complaint and on all proposed action(s) to prevent recurrence of the Complaint/Emission Event in the future.</p>	See item 123.
127	<p>ECA 10(3) If, in the opinion of the District Manager, failure of the APC Equipment and/or any other process or equipment upset or malfunction results in off-site Complaint/Emission Event, confirmed by the Owner or a Provincial Officer of the Ministry, the Owner shall, immediately upon notification from the District Manager, implement any necessary additional control measures, including, but not necessarily limited to, those in the Contingency and Emergency Response Plan required by this Certificate.</p>	N/A no equipment upset or malfunction related to Complaint/Emission event in 2019.
128	<p>ECA 10(4) If the District Manager deems the additional control measures taken as per condition 10.(3) to be unsuitable, insufficient or ineffective, the District Manager may direct the Owner, in writing, to take further measures to address the noted failure, upset or malfunction including pursuant to section 39 of the EPA requiring a reduction in the receipt of Waste, cessation of the receipt of Waste, removal and off-site disposal of Waste from the Tipping Building as well as making repairs or modifications to equipment or processes.</p>	See item 127.
129	<p>11. CONTINGENCY and EMERGENCY RESPONSE PLAN</p> <p>ECA 11 (1)(a) The Owner shall develop and implement a Contingency and Emergency Response Plan in accordance with the requirements set out in the EA Approval.</p> <p>(b) Notwithstanding the requirements set out in the EA Approval, the Contingency and Emergency Response Plan shall be prepared in consultation with the District Manager or designate, the local Municipality and the Fire Department.</p> <p>ECA 11(2) In addition to the requirements set out in the EA Approval, the Contingency and Emergency Response Plan, as a minimum, shall include the following:</p> <p>(a) the Site plan clearly showing the equipment layout and all storage areas for wastes and reagents.</p>	<p>11(1)(a) Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014). Completed as a pre-condition requirement.</p> <p>11(1)(b) Section 13 Document Review</p> <p>11(2)(a) Appendix A Equipment layout and all storage areas for wastes and reagents</p> <p>ECA Notice No. 1 (Issued August 12, 2014) included the Spill Contingency and Emergency Response Plan.</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
130	<p>ECA 11 (2)(b) a list of Site personnel responsible for the implementation of the contingency measures and various emergency response tasks and their training requirements;</p> <p>ECA 11 (2)(c) a list of equipment and materials required for the implementation of the contingency measures and the emergency situation response;</p> <p>ECA 11 (2)(d) maintenance and testing program for equipment required for the implementation of the contingency measures and the emergency situation response;</p> <p>ECA 11 (2)(e) procedures to be undertaken as part of the implementation of the contingency measures and the emergency situation response;</p> <p>ECA 11 (2)(f) names and telephone numbers of waste management companies available for emergency response.</p>	<p>Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014).</p> <p>11(2)(b) Appendix B3 and Appendix D1 and D2.</p> <p>11(2)(c) Section 11 Spill kit inventory, Section 5 Emergency equipment and testing</p> <p>11(2)(d) Section 5 Schedule for inspections.</p> <p>11(2)(e) Section 6.</p> <p>11(2)(f) Appendix B3.</p>
131	<p>ECA 11 (2)(g) notification protocol, with names and telephone numbers of persons to be contacted, including the Owner, the Site personnel, the Ministry of the Environment Spills Action Centre and the York Durham District, the local Fire and Police Departments, the local Municipality, the local Medical Officer of Health, and the Ministry of Labour;</p> <p>ECA 11 (2)(h) procedures and actions to be taken should the incoming Waste not meet the applicable quality criteria specified in this Certificate;</p> <p>ECA 11 (2)(i) procedures and actions to be taken should the outgoing Residual Waste fail to meet the criteria specified in this Certificate;</p> <p>ECA 11 (2)(j) procedures and actions to be taken should the current disposal options for the outgoing Residual Waste become unavailable;</p> <p>ECA 11 (2)(k) design of the contingency measure, procedures and actions should the emissions from the Site, including the fugitive odour/dust emissions, cause occurrences of public Complaints;</p> <p>ECA 11 (2)(l) procedures and actions to be taken should the Owner be unable to maintain the negative pressure in the Tipping Building;</p> <p>ECA 11 (2)(m) procedures and actions to be taken should the occurrence of Complaints require the Owner to suspend the waste processing activities at the Site; and</p>	<p>Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014).</p> <p>11(2)(g) Appendix B3.</p> <p>11(2)(h) Section 7.</p> <p>11(2)(i) Section 7 Waste Procedures</p> <p>11(2)(j) Section 7 Waste Procedures</p> <p>11(2)(k) Section 9 and Section 10.</p> <p>11(2)(l) Section 9 Procedure for Negative Pressure.</p> <p>11(2)(m) Section 8 -Complaints.</p>
132	<p>ECA 11 (2)(n) identification and risk assessment of all reasonably foreseeable incidents that may result in a discharge into the natural environment of any contaminant in an amount, concentration or level in excess of that prescribed by the Regulations and/or imposed by this Certificate, including but not limited to:</p> <p>(i) a breakdown of the Facility/Equipment or part of the Facility/Equipment, including the APC Equipment and the CEM Systems associated with the Boilers;</p> <p>(ii) CEM Systems indicate that the Boilers and associated APC Equipment have been out of compliance with the Performance Requirements;</p> <p>(iii) any change in process parameters which may result in non compliance with the Performance Requirements;</p> <p>(iv) power failure resulting in the use of the Emergency Diesel Generator or Total Power Failure; and</p> <p>(v) description of the preventative and control measures to minimize the occurrence or impacts of the above incidents; and</p>	<p>Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014).</p> <p>11(2)(n) Section 10 Risk Analysis & Preventative Measures, Section 11 Spills</p> <p>11(2)(n)(i) Section 10 CEMs</p> <p>11 (2) (n) (ii) Section 10 CEMs</p> <p>11 (2) (n) (iii) Section 10 CEMs</p> <p>11 (2) (n) (iv) Section 10 Power Failures</p> <p>11 (2) (n) (v) Section 10 Risk Analysis & Preventative Measures</p>
133	<p>(vi) procedures for corrective measures and timelines to take to address the above incidents in a timely manner to effectively prevent or minimize the discharge of any contaminant into the natural environment and continue to maintain compliance with the EPA , the Regulations and this Certificate, including procedures for Waste Processing Rate reduction, waste feed cut-off, Controlled Shutdown or Emergency Shutdown of the Boilers as applicable.</p>	<p>Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014).</p> <p>11(2)(n)(vi) Section 12 Shut Down of Facility - Complete & Controlled</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
134	<p>ECA 11 (3) The Owner shall submit the finalized Contingency and Emergency Response Plan to the Director a minimum of one hundred and twenty (120) days prior to the Commencement Date of Operation, for approval.</p> <p>ECA 11 (4) An up-to-date version of the Contingency and Emergency Response Plan shall be kept at the Site at all times, in a central location available to all staff, and it shall be available for inspection by a Provincial Officer upon request.</p> <p>ECA 11 (5) The Owner shall ensure that the names and telephone numbers of the persons to be contacted in the event of an emergency situation are kept up-to-date, and that these numbers are prominently displayed at the Site and at all times available to all staff and emergency response personnel.</p> <p>ECA 11 (6) The Contingency and Emergency Response Plan shall be reviewed on a regular basis and updated, as necessary. The revised version of the Contingency and Emergency Response Plan shall be submitted to the local Municipality and the Fire Department for comments and to the District Manager for comments and concurrence.</p> <p>ECA 11 (7) The Owner shall implement the recommendations of the updated Contingency and Emergency Response Plan, immediately upon receipt of the written concurrence from the District Manager.</p>	<p>11(3) Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014).</p> <p>11(4) Covanta has their own internal DYEC Emergency Action Plan/Fire Safety Plan Revision 12.0 Updated December 7, 2018 and is currently working to up-date their spill contingency plan.</p> <p>11(5) Emergency contact list posted in Covanta Control Room (Appendix H from EAP, rev 15).</p> <p>11(6) See ECA 11(4) above</p> <p>11(7) ECA Notice No. 1 (Issued August 12, 2014) included the Spill Contingency and Emergency Response Plan and updated Appendix A</p>
135	<p>ECA 11(8) Containment evaluations performed under the Spill Contingency and Emergency Response Plan shall be conducted by the Owner in accordance to procedures agreed by the District Manager pursuant to Conditions 8.(7)(i),(ii) and (iii).</p>	<p>See item 134.</p>
136	<p>ECA 12. EMERGENCY SITUATION RESPONSE and REPORTING</p> <p>(1) The Owner shall immediately take all measures necessary to contain and clean up any spill or leak which may result from the operation at this Site and manage any emergency situation in accordance with the Contingency and Emergency Response Plan.</p> <p>(2) The Owner shall ensure that the equipment and materials listed in the Contingency and Emergency Response Plan are immediately available at the Site, are in a good state of repair, and fully operational at all times.</p> <p>(3) The Owner shall ensure that all Site personnel responsible for the emergency situation response are fully trained in the use of the equipment and related materials, and in the procedures to be employed in the event of an emergency.</p> <p>(4) All Spills as defined in the EPA shall be immediately reported to the Ministry's Spills Action Centre at 1-800-268-6060 and shall be recorded in the log book as to the nature of the emergency situation, and the action taken for clean-up, correction and prevention of future occurrences.</p>	<p>12(1) Spill Reporting Form is used to document any spills. Covanta DYEC Emergency Action Plan/Fire Safety Plan Revision 12.0 dated December 7, 2018.</p> <p>(2) As per the Covanta DYEC Emergency Action Plan/Fire Safety Plan.</p> <p>(3) Training on the Covanta DYEC Emergency Action Plan/Fire Safety Plan occurs annually.</p> <p>(4) The CO exceedance of May 4th, 2019 and July 20th, 2019 was reported to the Spills Action Centre on May 4, 2019 and July 21, 2019. There were no other reportable spills documented in 2019.</p>
137	<p>ECA 13. SUBMISSIONS to the REGIONAL DIRECTOR or DISTRICT MANAGER</p> <p>(1) The Owner shall notify the District Manager in writing, at least six (60) days prior to the scheduled date for the first receipt of Waste at the Site, as to whether or not the construction of the Facility has been carried out in accordance with this Certificate to a point of Substantial Completion.</p> <p>(2) (a) The Owner shall forthwith notify the District Manager and the Spills Action Centre by telephone, when any of the following incidents occur that may result in a discharge into the natural environment of any contaminant in an amount, concentration or level in excess of that prescribed by the Regulations and/or imposed by this Certificate:</p> <p>(i) CEM Systems indicate that the Boilers and associated APC Equipment have been out of compliance with the Performance Requirements triggering a Waste Processing Rate Reduction, Waste Feed cut-off, Controlled Shutdown or Emergency Shutdown as specified in the Emergency Response and Contingency Plan;</p> <p>(ii) failure of the APC Equipment associated with the Boilers; and</p> <p>(iii) power failure resulting in the use of the emergency diesel generator or Total Power Failure.</p>	<p>1) Complete and no update for 2019.</p> <p>2) (i)(ii) none reported for 2019</p> <p>2) (iii) A power outage occurred on July 20, 2019. The CO exceedance was reported on July 21, 2019.</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
138	<p>13 (2) (b) In addition to fulfilling the notification requirements from the EPA, the Owner shall prepare and submit a written report to the District Manager with respect to any of the above said occurrences, within five (5) calendar days of the occurrence, in the following format:</p> <ul style="list-style-type: none"> (i) date of the occurrence; (ii) general description of the occurrence; (iii) duration of the occurrence; (iv) effect of the occurrence on the emissions from the Facility; (v) measures taken to alleviate the effect of the occurrence on the emissions from the Facility; and (vi) measures taken to prevent the occurrence of the same or similar occurrence in the future. 	<p>DYEC 5 Day Notification Report for CO exceedance occurring on May 9, 2019 and July 25, 2019.</p>
139	<p>ECA 13. SUBMISSIONS to the REGIONAL DIRECTOR or DISTRICT MANAGER CONTINUED</p> <p>(3) Should a Spill, as defined in the EPA, occur at the Site, in addition to fulfilling the requirements from the EPA and applicable regulations, the Owner shall submit to the District Manager a written report within three (3) calendar days outlining the nature of the Spill, remedial measure taken and the measures taken to prevent future occurrences at the Site.</p> <p>(4) (a) Within ninety (90) days from the date of this Certificate, the Regions shall prepare and submit to the District Manager for concurrence, a Soil Testing Plan to monitor the impact of the Site operations at the locations where the ambient air monitoring is proposed by the Owner in accordance with the requirements set out in the EA Approval.</p>	<p>3) See item 148 4 a) DYEC Soils Testing Plan, Revision 3, March 7, 2014</p>
140	<p>(b) (i) This Plan shall ensure that representative samples of the soil to be tested are collected in sufficient numbers and that the samples are properly preserved and tested so that reliable data on the soil characteristics is collected.</p> <p>(ii) As a minimum, the Plan shall include testing for cadmium, lead, chromium, nickel, cobalt, copper, molybdenum, selenium, zinc and mercury, Dioxins and Furans.</p> <p>(iii) This Plan shall comply with the Ministry's regulatory requirements for sampling and testing of soil and it shall include the rationale for the proposed methods.</p> <p>(iv) This Plan be kept at the Site at all times and be available for inspection by a Provincial Officer upon request.</p>	<p>See item 106.</p>
141	<p>ECA 14. RECORDS KEEPING</p> <p>(1) Any information requested by the Ministry concerning the Facility and its operation under this Certificate, including, but not limited to, any records required to be kept by this Certificate, shall be provided to the Ministry, upon request, in a timely manner.</p> <p>(2) The Owner shall retain, for a minimum of seven (7) years from the date of their creation, except as noted below, all reports, records and information described in this Certificate.</p>	<p>1) Monthly meeting are conducted with the Region, Covanta and the MECP. 2) Records were available for review.</p>
142	<p>Daily Activities</p> <p>(3) The Owner shall maintain an on-Site written or digital record of activities undertaken at the Site. All measurements shall be recorded in consistent metric units of measurement. As a minimum, the record shall include the following:</p> <ul style="list-style-type: none"> (a) date of record and the name and signature of the person completing the report; (b) quantity and source of the incoming Waste received at the Site; (c) records of the estimated quantity of Waste thermally treated in the Boilers; (d) quantity of the Unacceptable Waste received at the Site by the end of the approved Waste receipt period and the type(s) of the Unacceptable Waste received; 	<p>a-b) Scale House Operators send out the Daily Customer/Material Report summarizing inbound and outbound tickets, truck ID, weight, broken down by MSW Durham, MSW York, bottom ash, fly ash, ferrous, non-ferrous. Data is entered directly into the on-line system, that generates the report. c) Covanta Production Activities and Data - reports the monthly refuse received (by Region), processed (by unit), bypassed, reagents used, residual wastes shipped and electricity generated d) Unacceptable Waste Log and Waste Screening Report - Tipping Floor</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence
143	<p>(e) quantity and type of the Residual Waste shipped from the Site, including any required outgoing Residual Waste characterization results;</p> <p>(f) destination and/or receiving site(s) for the Residual Waste shipped from the Site;</p> <p>(g) quantity and type of any Rejected Waste accepted at the Site;</p> <p>(h) destination and/or receiving site(s) for the Rejected Waste shipped from the Site;</p> <p>(i) housekeeping activities, including litter collection and washing/cleaning activities, etc.</p> <p>(j) amount of electricity produced;</p> <p>k) amount of excess electricity exported to the electrical grid.</p>	<p>Supporting Evidence Sept 1-2, 2020</p> <p>e) quantities and type included in Daily Waste Logs</p> <p>f) see item 59</p> <p>g) In 2019, unacceptable waste included pipes, bath tub, helium tank, soft tub hot tub, propane tanks, exavator track, and truck bed liner.</p> <p>h) Unacceptable waste is removed by Photech Environmental Solutions Inc. and nonprocessable waste is removed by Waste Management of Canada Corporation.</p> <p>i) complete daily and weekly environmental activity</p> <p>j and k) excel production stats</p>
144	<p>Monitoring and Testing Records</p> <p>ECA 14 (4) The Owner shall maintain an on-Site written or digital record of activities undertaken at the Site. All measurements shall be recorded in consistent metric units of measurement. As a minimum, the record shall include the following:</p> <p>(a) day and time of the activity;</p> <p>(b) all original records produced by the recording devices associated with the CEM Systems;</p> <p>(c) a summary of daily records of readings of the CEM Systems, including:</p> <p>(i) the daily minimum and maximum 4-hour average readings for carbon monoxide; (ii) the daily minimum and maximum one hour average readings for oxygen;</p> <p>(iii) the daily minimum and maximum 10-minute average readings for organic matter; (iv) the daily minimum and maximum 24-hour average readings for sulphur dioxide; (v) the daily minimum and maximum 24-hour average readings for nitrogen oxides;</p> <p>(vi) the daily minimum and maximum 24-hour average readings for hydrogen chloride;</p> <p>(vii) the daily minimum and maximum 6-minute average and 2-hour average opacity readings; and</p> <p>(viii) the daily minimum and maximum one-hour average readings for temperature measurements.</p>	<p>Observed digital records in the Control Room. CEMS data is also available online: https://www.durhamyorkwaste.ca/EmissionsData/EmissionsData.aspx</p>
145	<p>ECA 14 (4) (d) records of all excursions from the applicable Performance Requirements as measured by the CEM Systems, duration of the excursions, reasons for the excursions and corrective measures taken to eliminate the excursions;</p> <p>(e) all records produced during any Acoustic Audit;</p> <p>(f) all records produced during any Source Testing;</p> <p>(g) all records produced by the long term sampling program for Dioxins and Furans required by this Certificate;</p> <p>(h) all records produced during the Residual Waste compliance testing;</p> <p>(i) all records produced during the Soil Testing;</p> <p>(j) all records produced during the Groundwater and Surface Water Monitoring required by this Certificate; (k) all records produced during the Ambient Air Monitoring required by this Certificate;</p>	<p>(d) Two excursions occurred in 2019:</p> <p> May 4th, 2019 during the 3:00 am hour. The four-hour CO rolling average on Unit 2 was recorded as 45 mg/Rm³ (compared to 40 mg/Rm³) due to wet refuse causing temperature and steam flow reduction and over-feeding.</p> <p> July 20th, 2019 during the 11:00 pm hour. The four-hour CO rolling average on Unit 2 was recorded as 55 mg/Rm³ (compared to 40 mg/Rm³) due to power outage.</p> <p>(e) no Acoustic Audit completed in 2019; no longer required.</p> <p>(f) Ortech 2019 Compliance Emission Testing Report;</p> <p>(g) Ortech Report: DYEC 2019 Compliance Emission Testing in Accordance with ECA no. 7306-8FDKNX, date November 18, 2019;</p> <p>(h) Residual Waste compliance testing records reviewed on site;</p> <p>(i) Soil Testing not required in 2019;</p> <p>(j) Groundwater and Surface Water Monitoring Report viewed on site;</p> <p>(k) Ambient Air Monitoring report available viewed on site.</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
146	<p>(l) all records associated with radiation monitoring of the incoming Waste, including but not limited to: (i) transaction number; (ii) hauler; (iii) vehicle ID; (iv) alarm level; (v) maximum CPS; (vi) uSv/hr; (vii) comment;(viii) background CPS; (ix) driver time in and out; and (x) name of the Trainer Personnel that carried out the monitoring.</p> <p>(m) results of the containment testing carried out in the buildings, conveyors, tanks and silos, as required; (n) results the negative pressure in the Tipping Building carried out, as required.</p>	<p>The 2019 ECA Annual Report, section 2.4, states that there were no loads of waste rejected from the Facility in 2019 due to radiation. This was confirmed in interview with scale house operator.</p> <p>Scale House Operators send out the Daily Customer/Material Report summarizing inbound and outbound tickets, truck ID, weight, broken down by MSW Durham and MSW York.</p>
147	<p>Inspections/Maintenance/Repairs ECA 14 (5) The Owner shall maintain an on-Site written or digital record of inspections and maintenance as required by this Certificate. As a minimum, the record shall include the following: (a) the name and signature of the Trained Personnel that conducted the inspection; (b) the date and time of the inspection; (c) the list of any deficiencies discovered, including the need for a maintenance or repair activity; (d) the recommendations for remedial action; (e) the date, time and description of actions (repair or maintenance) undertaken; (f) the name and signature of the Trained Personnel who undertook the remedial action; and (g) an estimate of the quantity of any materials removed during cleaning of the Works.</p>	<p>see items above</p>
148	<p>Emergency Situations ECA 14 (6) The Owner shall maintain an on-Site written or digital record of the emergency situations. As a minimum, the record shall include the following: (a) the type of an emergency situation; (b) description of how the emergency situation was handled; (c) the type and amount of material spilled, if applicable; (d) a description of how the material was cleaned up and stored, if generated; and (e) the location and time of final disposal, if applicable; and (f) description of the preventative and control measures undertaken to minimize the potential for re-occurrence of the emergency situation in the future.</p>	<p>There were exceedances on May 4 and July 20, 2019 of carbon monoxide.</p> <p>No other reportable spills in 2019.</p>
149	<p>Complaints Response Records ECA 14 (7) The Owner shall establish and maintain a written or digital record of complaints received and the responses made as required by this Certificate.</p>	<p>2019 ECA Annual Report Section 13 and monthly complaints log.</p>
150	<p>Training ECA 14 (8) The Owner shall maintain an on-Site written or digital record of training as required by this Certificate. As a minimum, the record shall include the following: Page 41- Number 7306-8FDKNX (a) date of training; (b) name and signature of person who has been trained; and (c) description of the training provided.</p>	<p>see above</p>
151	<p>Reports ECA 14 (9) The Owner shall keep at the Site the following reports required by this Certificate: (a) the ESDM Report (b) the Acoustic Assessment Report; (c) the Annual Report; and (d) the Third Party Audit.</p>	<p>a) October 2019 source testing includes updated 2019 ESDM (Appendix 27 Dispersion Modelling Results for the 2019 Testing Program, Ortech [Technical Memo dated November 18, 2019 from Golder Associates). b) Acoustic removed as condition of ECA c) available on website d) available on website</p>

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
152	<p>15. REPORTING Annual Report (1) By March 31st following the end of each operating year, the Owner shall prepare and submit to the District Manager and to the Advisory Committee, an Annual Report summarizing the operation of the Site covering the previous calendar year.</p> <p>This Annual Report shall include, as a minimum, the following information:</p> <p>(a) a summary of the quality and the quantity of the Wastes accepted at the Site, including the maximum amount of the Waste received annually and daily and the sources of the Waste;</p> <p>(b) a summary of the quality and the quantity of the Residual Waste shipped from the Site, including the analytical data required to characterize the Residual Waste, the off-Site destinations for the Residual Waste and its subsequent use, if known;</p> <p>(c) estimated material balance for each month documenting the maximum amount of wastes stored at the Site;</p> <p>(d) annual water usage;</p>	<p>2019 Annual Report has been posted as of August 30, 2020. The 2019 Annual Report submission letter to the MECP is dated March 30, 2020.</p> <p>The report was submitted to the waste to energy committee via email - dated March 30, 2019 from the DYEC Administrative Assistant Melodie Smart.</p>
153	<p>(e) annual amount of the electricity produced and the annual amount of the electricity exported to the electrical grid;</p> <p>(f) summaries and conclusions from the records required by Conditions 14.(3) through 14.(8) of this Certificate;</p> <p>(g) the Emission Summary Table and the Acoustic Assessment Summary Table for the Facility as of December 31 from the previous calendar year;</p> <p>(h) a summary of dates, duration and reasons for any environmental and operational problems, Boilers downtime, APC Equipment and CEM System malfunctions that may have negatively impacted the quality of the environment or any incidents triggered by the Emergency Response and Page 42- Number 7306-8FDKNX Contingency Plan and corrective measures taken to eliminate the environmental impacts of the incidents.</p>	See item 152.
154	<p>(i) a summary of the dates, duration and reasons for all excursions from the applicable Performance Requirements as measured by the CEM Systems or as reported by the annual Source Testing, reasons for the excursions and corrective measures taken to eliminate the excursions;</p> <p>(j) results of the evaluation of the performance of the long-term sampling system in determining the Dioxins and Furans emission trends and/or fluctuations for the year reported on as well as demonstrating the ongoing performance of the APC Equipment associated with the Boilers;</p> <p>(k) dates of all environmental complaints relating to the Site together with cause of the Complaints and actions taken to prevent future Complaints and/or events that could lead to future Complaints.</p>	See item 152.
155	<p>(l) any environmental and operational problems that could have negatively impacted the environment, discovered as a result of daily inspections or otherwise and any mitigative actions taken;</p> <p>(m) a summary of any emergency situations that have occurred at the Site and how they were handled;</p> <p>(n) the results and an interpretive analysis of the results of the groundwater and surface water, including an assessment of the need to amend the monitoring programs;</p> <p>(o) summaries of the Advisory Committee meetings, including the issues raised by the public and their current status;</p>	See item 152.
156	<p>(p) any recommendations to improve the environmental and process performance of the Site in the future; (q) statement of compliance with this Certificate, including compliance with the O. Reg. 419/05 and all air emission limits based on the results of source testing, continuous monitoring and engineering calculations, as may be appropriate; and</p> <p>(r) interpretation of the results and comparison to the results from previous Annual Reports to demonstrate the Facility's impact on the environment.</p>	See item 152.

**Appendix D1
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
157	<p>Third Party Audit ECA 15 (2)</p> <p>(a) The Regions shall ensure that an independent technical review of the operations at the Site is undertaken in accordance with the requirements of the EA Approval.</p> <p>(b) In addition to the Third Party Audit requirements set out in the EA approval, the Third Party Audit shall include the following: Page 43- Number 7306-8FDKNX</p> <p>(i) a review of the data from the monitoring and testing required by this Certificate; (ii) a review of all complaints received about the operation of the Facility;</p> <p>(iii) any recommendations for improving the operation of the Facility received from the Advisory Committee; and</p> <p>(iv) a recommendation of any improvements that could be made to ensure that the operation of the Facility is optimized and is protective of the health and safety of people and the environment.</p> <p>(3) The Regions shall submit a Written Audit Report on the results of the independent technical review to the Regional Director in accordance with the Audit Plan and retain a copy at the Site.</p>	<p>Third Party Independent Audit, DYEC Facility Operations Phase Audit - 2018 prepared by BluMetric Environmental Inc., dated April 26, 2019 (letter to MECP dated April 30, 2019).</p> <p>MECP Response letter dated October 9, 2019 confirming receipt of the report.</p>
158	<p>Soil Testing Report 15 (4) Within one (1) month of completion of each Soil Testing event, the Regions shall submit to the District Manager a Soil Testing Report, which includes the details on the sampling/testing procedures, the results of the testing and a comparison with the results obtained during the previous Soil Testing.</p>	<p>No soil sampling events were required for 2019. In accordance with Section 3.2 of the DYEC Soils Testing Plan, the next sampling event is scheduled for August 2020.</p>
159	<p>PUBLIC ACCESS TO DOCUMENTATION</p> <p>ECA 16(1) The Owner shall, at all times, maintain documentation that describes the current operations of the Facility. The Owner shall post the documentation at the website for the undertaking and during regular business hours, the Owner shall make the following documents available for inspection at the Site by any interested member of the public, upon submission to the Ministry for review:</p> <p>(a) a current ESDM Report that demonstrates compliance with the Performance Limits for the Facility regarding all Compounds of Concern;</p> <p>(b) a current Acoustic Assessment Report that demonstrates compliance with the Performance Limits for the Facility regarding noise emissions; (c) the most recent Annual Report;</p> <p>(d) the most current Third Party Audit Report;</p> <p>(e) Odour Management and Mitigation Plan, prepared in accordance with the requirements of the EA Approval;</p> <p>(f) Noise Monitoring and Reporting Plan, prepared in accordance with the requirements of the EA Approval; and</p> <p>(g) Groundwater and Surface Water Monitoring and Reporting Plan, prepared in accordance with the requirements of the EA Approval.</p>	<p>Documents are available on the website: https://www.durhamyorkwaste.ca/Documents/Documents.aspx</p>
161	<p>(2) The Owner shall ensure that necessary hardware and software are provided at a location available to the public, to provide on-line real-time reporting of the operating parameter data for the Facility, including acceptable operating limits, stack emissions, and all other parameters for which continuous monitoring is required and that continuous records of the same be kept and made available to the public.</p>	<p>See item 159</p>
162	<p>ECA 17. ADVISORY COMMITTEE (1) The Regions shall establish an Advisory Committee in accordance with the requirements set out in the EA Approval.</p>	<p>Committee met on October 17, 2019 as per ECA Annual Report 2019. Minutes will be posted to the DYEC website following acceptance at next meeting which was conducted January 16, 2020.</p>
163	<p>ECA 18. CLOSURE of the SITE amended</p> <p>(1) A minimum of nine (9) months prior to closure of the Site, the Regions shall submit, for approval by the Director, a written Closure Plan for the Site. This Plan shall include, as a minimum, a description of the work that will be done to facilitate closure of the Site and a schedule for completion of that work.</p> <p>(2) Within ten (10) days after closure of the Site, the Regions shall notify the Director and the District Manager, in writing, that the Site is closed and that the approved Closure Plan has been implemented.</p>	<p>N/A</p>

**Appendix D2
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
1	General Requirements EA 2(1) The proponent shall comply with the provisions in the environmental assessment which are hereby incorporated in this Notice of Approval by reference except as provided in these conditions and as provided in any other approval or permit that may be issued for the site or the undertaking.	No new ECA amendments in 2019.
2	EA 2(2) These conditions do not prevent more restrictive conditions being imposed under other statutes.	see Item 1
3	EA 2(3) A statement must accompany the submission of any documents, reporting requirements or written notices required by this Notice of Approval to be submitted to the Director or Regional Director identifying which conditions the submission is intended to address in this Notice of Approval.	Letter included with DYEC 2019 Compliance Monitoring Report, dated October 31, 2019, submission.
4	Public Record EA 3(1) Where a document, plan or report is required to be submitted to the ministry, the proponent shall provide two copies of the final document, plan or report to the Director: a copy for filing in the specific public record file maintained for the undertaking and a copy for staff use.	As requested by the Ministry a hard copy and an electronic copy are provided to the Ministry.
5	EA 3(2) The proponent shall provide additional copies of the documents required for the public record file to the following for access by the public: a) Regional Director; b) District Manager; c) Clerks of the Regional Municipality of Durham, the Regional Municipality of York, and the Municipality of Clarington; and, d) Advisory Committee (as required in Condition 8 of this Notice of Approval).	Copies of the 2019 ECA Annual Report by Owners (Januszkiewicz, McDowell and Neild) were sent to those listed as stated in the submission cover letter dated March 30, 2020.
6	EA 3(3) The EAAB file number EA-08-02 shall be quoted on all documents submitted by the proponent pursuant to this Condition.	MECP file #: EA-08-02 was referenced on cover letter
7	Compliance Monitoring Program EA 4(1) The proponent shall prepare and submit to the Director a Compliance Monitoring program outlining how it will comply with conditions in the Notice of Approval and other commitments made in the environmental assessment. EA 4(2) A statement shall accompany the submission of the Compliance Monitoring Program indicating that the submission is intended to fulfill Condition 4 of this Notice of Approval. EA 4(3) The proponent shall implement the Compliance monitoring program as it may be amended by the Director.	Completed in 2011.
8	EA 4(4) The Compliance Monitoring Program shall describe how the proponent will monitor its fulfilment of the provisions of the environmental assessment pertaining to mitigation measures, public consultation, and additional studies and work to be carried out; the fulfilment of all other commitments made by the proponent during the environmental assessment process; and the conditions included in this Notice of Approval.	Refer to Appendix A of the Compliance Monitoring Program and the 2019 Compliance and Monitoring Report.
9	EA 4(5) The Compliance Monitoring Program shall contain an implementation schedule.	Completed in 2011.
10	EA 4(6) The Director may require amendments to the Compliance Monitoring Program, including the implementation schedule. If any amendments are required by the Director, the Director will notify the proponent of the required amendments in writing.	There were no amendments received in 2019.

**Appendix D2
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
11	EA 4(7) The proponent shall implement the Compliance Monitoring Program, as it may be amended by the Director.	DYEC 2019 Compliance Monitoring Report, dated October 25, 2019.
12	EA 4(8) The proponent shall make the documentation pertaining to the Compliance Monitoring Program available to the ministry or its designate in a timely manner when requested to do so by the ministry.	DYEC 2019 Compliance Monitoring Report, dated October 25, 2019.
13	EA Compliance Reporting 5(1) The proponent shall prepare an annual Compliance Report which describes its compliance with the conditions of approval set out in this Notice of Approval and which describes the results of the proponent's environmental assessment compliance Monitoring Program required by Condition 4.	Submission of DYEC 2019 Compliance Monitoring Report Letter, dated October 31, 2019.
14	EA 5(2) The annual Compliance Report shall be submitted to the Director within one year from the date of approval, with the first report being due in 2011, and shall cover all activities of the previous 12 month period.	Completed in 2011.
15	EA 5(3) Subsequent compliance reports shall be submitted to the Director on or before the anniversary of the date of approval each year thereafter. Each Compliance Report shall cover all activities of the previous 12 month period.	Durham/York Energy from Waste Project Submission of the 2019 Compliance Monitoring Report letter to MECP dated October 31, 2019.
16	EA 5(4) The proponent shall submit annual Compliance Reports until all conditions in this Notice of Approval and the commitments in the environmental assessment are satisfied.	See item 15
17	EA 5(5) Once all conditions in this notice of approval have been satisfied, or have been incorporated into any other ministry approval, the proponent shall indicate in its annual Compliance Report that the Compliance Report is its final Compliance Report and that all conditions in the Notice of Approval have been satisfied.	Ongoing fulfillment of conditions. Refer to 2019 Compliance Monitoring Report.
18	EA 5(6) The proponent shall retain either on site or in another location approved by the Director, a copy of each of the annual Compliance Reports and any associated documentation of compliance monitoring activities.	Copies are retained on the facility website and on site.
19	EA 5(7) The proponent shall make the Compliance Reports and associated documentation available to the ministry or its designate in a timely manner when requested to do so by the ministry.	Compliance reports are available online: https://www.durhamyorkwaste.ca/Documents/FacilityManagementPlans/ComplianceMonitoring.aspx
20	Complaint Protocol EA 6(1) The proponent shall implement a Complaint Protocol setting out how it will deal with and respond to inquires and complaints received during the design, construction and operation of the undertaking.	Completed in 2011.
21	EA 6(2) The Complaint Protocol shall be provided to the advisory committee for review prior to submission to the Director.	Completed in 2011.
22	EA 6(3) The proponent shall submit the Complaint Protocol to the Director within one year from the date of approval or a minimum of 60 days prior to the start of construction, whichever is earlier.	Completed in 2012.
23	EA 6(4) The Director may require the proponent to amend the Complaint Protocol at any time. Should an amendment be required, the Director will notify the proponent in writing of the required amendment and date by which the amendment must be completed.	Refer to ECA Condition for summary of 2019 complaints.
24	EA 6(5) The proponent shall submit the amended Complaint Protocol to the Director within the time period specified by the Director in the notice.	There were no amendments to the Complaint Protocol in 2019.

**Appendix D2
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
25	Community Involvement EA 7(1) The proponent shall prepare and implement a Community Communications Plan . The plan shall be prepared in consultation with the EAAB and to the satisfaction of the Director.	Completed in 2013.
26	EA 7(2) The proponent shall finalize and submit the Community Communications Plan to the Director prior to the initial receipt of non-hazardous municipal solid waste at the site.	Completed in 2013.
27	EA 7(3) The community Communications Plan shall include at a minimum details on: a) How the proponent plans to disseminate information to interested members of the public and any Aboriginal communities; b) How interested members of the public and any Aboriginal communities will be notified and kept informed about information on documents related to the undertaking, and when and how the information will be made available. c) The procedures for keeping interested members of the public and Aboriginal communities informed about information on documents related to the undertaking, and when and how the information will be made available.	Completed in 2013.
28	EA 7(4) The proponent shall give notice and provide information about the undertaking to interested members of the public and Aboriginal communities through an internet web site and by other means. Such information shall include: a) Activities that are part of the undertaking, including monitoring activities; b) Reports and records related to the undertaking that are required to be submitted under this Notice of Approval or under any other ministry approvals that apply to the undertakings; and, c) Information on the Complaint Protocol required by Condition 6 of this Notice of Approval.	Documents available on website. No change from 2018.
29	EA 7(5) The proponent shall hold public meetings to discuss the design, construction and operation of the undertaking, including, but not limited to: a) At least one meeting prior to the start of construction; b) At least one meeting prior to the receipt of non-hazardous municipal solid waste on site; and, c) At least one meeting a minimum of six months but not later than 12 months after the initial receipt of non-hazardous municipal solid waste on the site.	Completed in 2016.
30	EA 7(6) The proponent shall provide notice of the public meetings a minimum of 15 days prior to the meeting.	Refer to item 29.
31	EA 7(7) The proponent shall give the Director written notice of the time, date and location of each of the required community meetings a minimum of 15 days prior to the meeting.	Refer to item 29.
32	Advisory Committee EA 8(1) The proponent shall establish an advisory committee to ensure that concerns about the design, construction and operation of the undertaking are considered and mitigation measures are implemented where appropriate.	Advisory Committee established in 2011.
33	EA 8(2) The proponent shall provide administrative support for the advisory committee including, at a minimum: a) Providing a meeting space for advisory committee meetings; b) Recording and distributing minutes of each meetings; c) Preparing and distributing meeting notices; and, d) Preparing an annual report about the advisory committee's activities to be submitted as part of the Compliance Reports required by Condition 5 of this Notice of Approval.	EFWAC Meeting # 16 July 10, 2019 as per ECA Annual Report 2019. Minutes will be posted to the DYEC website following acceptance at the next meeting. The next meeting date was not posted to the website as of September 1, 2020.

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Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting EvidenceSept 1-2, 2020
34	<p>EA 8(3) The proponent shall invite one representative from each of the following to participate on the advisory committee:</p> <p>a) Each of the lower tier municipalities in the Regional Municipality of Durham and, b) Each of the lower tier municipalities in the Regional Municipality of York.</p>	Completed in 2010.
35	<p>EA 8(4) The proponent shall invite one representative from Central Lake Ontario Conservation Authority, and any other local conservation authorities that may have an interest in the undertaking to participate on the advisory committee.</p>	Completed in 2010.
36	<p>EA 8(5) The proponent shall invite one representative from each of the following local community groups to participate on the advisory committee:</p> <p>a) Durham CLEAR; b) Durham Environmental Watch; and, c) Zero Waste 4 Zero Burning.</p>	Completed in 2010.
37	<p>EA 8(6) The proponent may also invite other stakeholders to participate in the advisory committee, including, but not limited to, interested members of the public, Aboriginal communities, and other federal or provincial agencies.</p>	Completed in 2010.
38	<p>EA 8(7) A representative from the ministry shall be invited to attend meetings as an observer.</p>	Completed in 2010.
39	<p>EA 8(8) The advisory committee shall be provided with a copy of the documents listed below for information and may review the documents as appropriate and provide comments to the proponent about the documents, including the:</p> <p>a) Compliance Monitoring Program required by Condition 4; b) Annual Compliance Report required by Condition 5; c) Complaint Protocol required by Condition 6; d) Community Communications Plan required by Condition 7; e) The annual reports required by Condition 10; f) Ambient Air Monitoring and Reporting Plan and the results of the ambient air monitoring program required by Condition 11.</p>	Completed. No updates in 2019.
40	<p>g) Air Emissions Monitoring Plan required by Condition 12; h) Written report prepared and signed by the qualified professional required by Condition 16.5; i) Spill Contingency and Emergency Response Plan required by Condition 17; j) Odour Management and Mitigation Plan and the Odour Management and Mitigation Monitoring Reports required by Condition 18; k) Noise Monitoring and Reporting Plan as required by Condition 19; l) Groundwater and Surface Water Monitoring Plan, the results of the groundwater and surface water monitoring program, and the annual report on the results of the groundwater and surface water monitoring program required by Condition 20; and, m) Notice in writing of the date that municipal solid waste is first received as required by Condition 23.</p>	Completed. No updates in 2019.
41	<p>EA 8(9) The proponent shall hold the first advisory committee meeting within three months of the date of approval. At the first meeting, the advisory committee shall develop a Terms of Reference outlining the governance and function of the advisory committee.</p>	Completed in 2011.

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Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
42	<p>EA 8(10) The Terms of Reference shall, at a minimum, include:</p> <ul style="list-style-type: none"> a) Roles and responsibilities of the advisory committee members; b) Frequency of meetings; c) Member code of conduct; d) Protocol for dissemination and review of information including timing; and, e) Protocol for dissolution of the advisory committee. 	Completed in 2011.
43	<p>EA 8(11) The proponent shall submit the advisory committee's Terms of Reference to the Director and Regional Director.</p>	Completed in 2011.
44	<p>Consultation with Aboriginal Communities EA 9(1) The proponent shall continue to consult with any interested Aboriginal communities during the detailed design and implementation of the undertaking.</p>	Completed in 2012.
45	<p>Waste Diversion EA 10(1) The proponent shall make a reasonable effort to work cooperatively with all lower tier municipalities to ensure that waste diversion programs, policies and targets set by the Regional Municipalities are being met. EA 10(2) The proponent shall prepare and implement a Waste Diversion Program Monitoring Plan.</p>	10(1) and (2) Durham Waste Diversion Program Monitoring Plan Letter dated October 21, 2011, indicates that the Region continues to work with all lower tier municipalities regarding waste diversion. York Integrated Waste Management Master Plan, September 2013, indicates collaboration between Regional and local councils, residents, businesses, schools and community groups.
46	<p>EA 10(3) The Waste Diversion Program Monitoring Plan shall provide a description of monitoring and reporting which shall at minimum include:</p> <ul style="list-style-type: none"> a) Results of a source diversion programs and policies to determine the waste diversion rates and practices at both the regional and lower tier municipal level within the Regional Municipalities of Durham and York. b) Progress in the diversion programs, policies, practices and targets described in the environmental assessment at both the regional and lower tier municipal level within the Regional Municipalities of Durham and York. c) Monitoring results for any additional diversion programs, policies, practices and targets carried out within the Regional Municipalities of Durham and York, which are not described in the environmental assessment. 	Completed in 2011.
47	<p>EA 10(4) The proponent shall prepare and submit to the Director and Regional Director, commencing one year after the approval of the undertaking, annual reports detailing the results of the Waste Diversion Program Monitoring Plan. 10(5) The proponent shall post the Waste Diversion Program Monitoring Plan and the annual reports required on the proponent's web site for the undertaking.</p>	10(4) Waste Management Annual Report 2018, Region of Durham, submitted to the MECP on October 31, 2019. 2018 Annual Solid Waste Diversion Report, York Region, submitted to the MECP on October 15, 2019. 10(5) Reports accessed on website on September 1, 2020.
48	<p>Ambient Air Monitoring EA 11(1) The proponent shall prepare, in consultation with the ministry's Central Region Office and to the satisfaction of the Regional Director, an Ambient Air Monitoring and Reporting Plan for the undertaking.</p>	Completed in 2012.
49	<p>EA 11(2) The proponent shall submit the Ambient Air Monitoring and Reporting Plan to the Director and Regional Director a minimum of nine months prior to the start of construction or by such other date as agreed to in writing by the Regional Director.</p>	Completed in 2012.
50	<p>EA 11(3) The proponent shall establish a working group that will provide advice on the development of the Ambient Air Monitoring and Reporting Plan. The Regions will, at a minimum, extend an invitation to Health Canada, the Durham Region Health Department, York Region Public Health Services, one participant from the advisory committee, and any other relevant federal or provincial government agencies including the ministry.</p>	Completed in 2011.

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Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
51	<p>EA 11(4) The Ambient Air Monitoring and Reporting Plan shall include at a minimum:</p> <p>a) An ambient air monitoring program which includes an appropriate number of sampling locations. Siting of the sampling locations shall be in accordance with the Ministry of the Environment's Operation Manual for Air Quality Monitoring in Ontario, March 2008, as amended from time to time;</p> <p>b) The proposed start date for and frequency of the ambient air monitoring and reporting to be carried out;</p> <p>c) The contaminants that shall be monitored as part of the Ambient Air Monitoring and Reporting Plan; and</p> <p>d) At least one meeting on an annual basis between the proponent and the Regional Director to discuss the plan, the results of the ambient air monitoring program and any changes that are required to be made to the plan by the Regional Director.</p>	<p>a), b), c) Completed in 2012.</p> <p>d) Annual meeting was scheduled for November 1, 2019. The monthly DYEC meetings with MECP, Covanta, and York and Durham Regions were scheduled, via teleconference, from 10 to 11 a.m. on the third Thursday of each month in 2019. The 2019 annual meeting was completed on November 1, 2019 with the MECP for the DYEC 2018 annual reports' review for GW, SW and AAM</p>
52	<p>EA 11(5) The proponent shall implement the ambient air monitoring program prior to the receipt of non-hazardous municipal solid waste on the site or at such other time that may be determined by the Regional Director and communicated to the proponent in writing and shall continue the monitoring until such time as the Regional Director notifies the proponent in writing that the Ambient Air Monitoring Program is no longer required.</p>	<p>Quarterly Ambient Air Monitoring continued in 2019. (see item 56)</p>
53	<p>EA 11(6) The Regional Director may require changes to be made to the Ambient Air Monitoring and Reporting Plan and the proponents shall implement the plan in accordance with the required changes.</p>	<p>No changes in 2019.</p>
54	<p>EA 11(7) The proponent shall report the results of the ambient air monitoring program to the Regional Director in accordance with the Ambient Air Monitoring and Reporting Plan.</p>	<p>Ambient Air Quality Monitoring Reports 2018: Ambient Air Quality Monitoring Reports 2019: Q1 - Quarterly Ambient Air Quality Monitoring Report, RWDI, May 14, 2019 Q2 - Quarterly Ambient Air Quality Monitoring Report, Stantec, August 12, 2019 Q3 - Ambient Air Quality Monitoring Report, RWDI AIR Inc., November 14, 2019 Q4 - Ambient Air Quality Monitoring Report, RWDI AIR Inc., February 10, 2020</p>
55	<p>EA 11(8) Audits will be conducted by the ministry, as outlined in the Ministry of the Environment's Audit Manual for Air Quality Monitoring in Ontario, March 2008 to confirm that siting and performance criteria outlined in the Operations Manual are met. The proponent shall implement any recommendations set out in the audit report regarding siting of the sampling locations and performance criteria. The proponent shall implement the recommendations in the audit report within three months of the receipt of an audit report from the ministry.</p>	<p>RWDI, Annual Ambient Air Quality Monitoring Report, May 13, 2020: Ministry Audits were completed in Q1 and Q2 on the continuous analyzers, all met audit criteria except high volume sampler at Courtice Station on February 15, 2019. Maintenance was completed and Ministry re-audited on February 28, 2019; audit criteria met at that time.</p>

**Appendix D2
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
56	EA 11(9) The proponent shall post the Ambient Air Monitoring and Reporting Plan and the results of the Ambient Air Monitoring Program on the proponent's web site for the undertaking upon submission of the plan or results of the program to the ministry.	Ambient Air Quality Monitoring Plan, Stantec Consulting Ltd., May 8, 2012. MOECC letters of acceptance May 30, 2012 and June 5, 2012. Ambient Air Quality Monitoring Reports 2019: Q1 - Quarterly Ambient Air Quality Monitoring Report, RWDI, May 14, 2019 Q2 - Quarterly Ambient Air Quality Monitoring Report, Stantec, August 12, 2019 Q3 - Ambient Air Quality Monitoring Report, RWDI AIR Inc., November 14, 2019 Q4 - Ambient Air Quality Monitoring Report, RWDI AIR Inc., February 10, 2020
57	EA Emissions Monitoring 12(1) The proponent shall install, operate and maintain air emissions monitoring systems that will record the concentrations of the contaminants arising from the incinerator of waste.	Refer to ECA Condition 7(2)
58	EA 12(2) The air emissions monitoring systems shall be installed and operational prior to the receipt of non-hazardous municipal solid waste at the site.	Completed in 2015.
59	EA 12(3) The proponent shall prepare and implement an Air Emissions Monitoring Plan. The Plan shall be prepared, in consultation with the ministry and to the satisfaction of the Director.	Completed in 2016.
60	EA 12(4) The Air Emissions Monitoring Plan shall include, at a minimum: a) Identification of all sources of air emissions at the site to be monitored; b) Identification of which contaminants will be monitored by continuous emissions monitoring and which by stack testing; c) The proposed start date for and frequency of air emissions monitoring; d) The frequency of and format for reporting the results of air emissions monitoring; e) The contaminants that shall be monitored, which shall include at a minimum those contaminants set out in Schedule 1 to this Notice of Approval; and, f) A notification, investigation and reporting protocol to be used in the event that the concentration(s) of one or more of the contaminants released from an emission source that requires approval under Section 9 of the Environmental Protection Act exceed the relevant limits.	Completed in 2016.
61	EA 12(5) The proponent shall submit the Air Emissions Monitoring Plan to the Director, a minimum of six months prior to the start of construction or by such other date as agreed to in writing by the Director.	Refer to item 59.
62	EA 12(6) The proponent shall [prepare and] implement an Air Emissions Monitoring Plan such that the monitoring commences when the first discharges are emitted from the facility to the air or at such other time as the Director may agree to in writing and shall continue until such time as the director notifies the proponent in writing that the Air Emissions Monitoring Plan is no longer required. 12(7) The proponent shall post the reports of the air emissions monitoring systems on the proponents web site for the undertaking. 12(8) For those contaminants that are monitored on a continuous basis, the proponent shall post on the proponent's website for the undertaking the results of the monitoring for each of those contaminants in real time.	Refer to item 59.

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Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Sept 1-2, 2020
63	<p>Air Emissions Operational Requirements EA 13(1) The proponent is expected to operate the undertaking in accordance with Schedule 1 of this Notice of Approval. If the facility is not operating in accordance with Schedule 1, the operator is required to take steps to bring the facility back within these operational requirements.</p>	<p>• On May 4th, 2019, the Schedule 1 standard for carbon monoxide was exceeded in boiler unit #2 during the hour ending at 3:00 am, reaching a 4-hour rolling average value of 45 mg/m³ as compared to the Schedule 1 standard of 40 mg/m³. On July 20th, 2019, the Schedule 1 standard for carbon monoxide was exceeded in boiler unit #2 during the hour ending at 11:00 pm, reaching a 4-hour rolling average value of 55 mg/m³ as compared to the Schedule 1 standard of 40 mg/m³. The MECP Spills Action Centre was notified of the occurrence on May 4th and July 21, 2019.</p> <p>• During the remainder of the period covered by this report, the facility was compliant with all air emissions requirements in Schedule 1.</p>
64	<p>EA 13(2) Schedule 1 sets out the operational requirements the ministry expects the facility to meet during the normal operating conditions of the facility when operating under a steady state but does not include start up, shut down, or malfunction.</p>	Refer to Item 63.
65	<p>EA 13(3) The timing and frequency of monitoring for a contaminant in Schedule 1 shall be as required by the approval granted to the facility under the Environmental Protection Act, should approval be granted.</p>	Completed.
66	<p>Daily Site Inspection EA 14(1) The Proponent shall conduct a daily inspection of the site including the non-hazardous municipal solid waste received at the site, each day the undertaking is in operation to confirm that:</p> <p>(a) The site is secure;</p> <p>(b) the operation of the undertaking is not causing any nuisance impacts;</p> <p>(c) the operation of the undertaking is not causing any adverse effects on the environment;</p> <p>(d) The undertaken is being operated in compliance with the conditions in this Notice of Approval and any other ministry approvals issued for the undertaking; and</p> <p>(e) Only non-hazardous waste is being received at the site.</p>	See Environmental Compliance Approval Conditions 3 (6), 3 (7), 3(8), 5 (5), 14 (3), and 14 (5).
67	<p>EA 14(2) If, as a result of the daily inspection, any deficiencies are noted by the employee in regards to the factors set out in 14(1) above, the deficiency shall be remedied immediately by the proponent. If necessary to remedy the deficiency, the proponents shall cease operations at the site until the deficiency has been remedied.</p>	See Environmental Compliance Approval Conditions 5 (5), 14 (3), and 14 (5).
68	<p>Daily Site Inspection cont'd EA 14(3) A record of the daily inspections shall be kept in the daily log book required in condition 15. The information below must be recorded in the daily log book by the person completing the inspection and includes the following information:</p> <p>(a) the name and signature of the person that conducted the daily inspection; (b) the date and time of the daily inspection;</p> <p>(c) a list of deficiencies discovered during the daily inspection; (d) any recommendation for action; and,</p> <p>(e) the date, time and description of actions taken.</p> <p>14(4) The proponent shall retain either on site or in another location approved by the District Manager, a copy of the daily log book and any associated documentation regarding the daily site inspections.</p>	See Environmental Compliance Approval Conditions 5 (5), 14 (2), 14 (3), and 14 (5).

**Appendix D2
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Item	Condition	Supporting Evidence Sept 1-2, 2020
69	<p>Daily Record Keeping EA 15(1) The proponent shall maintain a written daily log which shall include the following information:</p> <ul style="list-style-type: none"> (a) Date; (b) Types, quantities and source of non-hazardous municipal solid waste received; (c) Quantity of unprocessed, processed and residual non-hazardous municipal solid waste on the site; (d) Quantities and destination of each type of residual material shipped from the site; (e) the record of daily site inspections required to be maintained by condition. 	See ECA Conditions 5 (5), 14 (3) and 14 (5).
70	<p>EA 15(1) (f) A record of any spills or process upsets at the site, the nature of the spill or process upset and the action taken for the clean up or correction of the spill or process upset, the time and date of the spill or process upset, and for the spills, the time that the ministry and other persons were notified of the spill pursuant to the reporting requirement of the Environmental Protection Act;</p> <ul style="list-style-type: none"> (g) A record of any waste that was refused at the site, including: amounts reason for refusal and actions taken; and, h) The name and signature of the person completing the report. 	See ECA Conditions 5 (5), 14 (3) and 14 (5).
71	<p>EA 15(2) The proponent shall retain either on site or in another location approved by the District Manager, a copy of the daily log book and any associated documentation.</p>	See Environmental Compliance Approval Conditions 5 (5), 14 (3), and 14 (5).
72	<p>EA 15(3) The proponent shall make the daily log book and any associated documentation available to the ministry or its designate in a timely manner when requested to do so by the ministry.</p>	See ECA Condition 14(1).
73	<p>Third Party Audits EA 16(1) The proponent shall retain the services of a Qualified, Independent Professional Engineer to carry out an independent audit of the undertaking.</p>	DYEC 2019 Third Party Audit Report - Operations Year 2018
74	<p>EA 16(2) Within six months from the date of approval or other such date as agreed to in writing by the Regional Director, the proponent shall submit to the Director and the Regional Director, the name of the Qualified, Independent Professional Engineer and the name of the company where he/she is employed.</p>	No change for 2019.
75	<p>EA 16(3) The proponent shall submit an audit plan to the satisfaction of the Regional Director that sets out the timing of and frequency for the audits, as well as the manner in which the audits are to be carried out.</p>	No change to audit plan see Item 73.
76	<p>EA 16(4) The audit shall include, at a minimum, the following:</p> <ul style="list-style-type: none"> a) A detailed walkthrough of the entire site; b) A review of all operations used in connection with the undertaking; and, c) A detailed review of all records required to be kept by this Notice of Approval or under any other ministry approvals for the undertaking. d) The proponent shall obtain from the Qualified, Independent Professional Engineer, a written report of the audit prepared and signed by the Qualified, Independent Professional Engineer that summarizes the results of the audit. 	Refer to ECA condition 15 (2).
77	<p>EA 16(5) The proponent shall submit the written report summarizing the result of the audit to the Regional Director no later than 10 business days following the completion of the audit.</p>	Refer to ECA condition 15 (3).

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Item	Condition	Supporting Evidence Sept 1-2, 2020
78	EA 16(6) The proponent shall retain either on site or in another location approved by the Regional Director, a copy of the written audit report and any associated documentation.	Refer to ECA condition 15 (3).
79	EA 16(7) The proponent shall make the written audit report and any associated documentation available to the ministry or its designate in a timely manner when requested to do so by the ministry.	Refer to ECA condition 14 (1).
80	EA 16(8) The proponent shall post the written audit report and any associated documentation available for the undertaking following submission of the report to the ministry.	No change. See item 79.
81	Spill Contingency and Emergency Plan EA 17(1) The proponent shall prepare and implement a spill contingency and emergency response plan. 17(2) The proponent shall submit to the director, the Spill Contingency and Emergency Response Plan a minimum of 60 days prior to the receipt of non-hazardous municipal solid waste at the site or such other date as agreed to in writing by the Director.	Completed in 2014.
82	EA 17(3) The Spill Contingency and Emergency Response Plan shall include, but is not limited to: a) Emergency response procedures, including notification procedures in case of a spill, fires, explosions or other disruptions to the operations of the facility; b) Cell and business phone numbers and work locations for all person(s) responsible for the management of the site; c) Emergency phone numbers for the local ministry office, the ministry's spill action centre, and the local Fire Department; d) Measures to prevent spills, fires and explosions; e) Procedures for use in the event of a fire.	Completed in 2014.
83	EA 17(3) f) Details regarding equipment for spill clean-up and all control and safety devices; g) Shut down procedures for all operations associated with the undertaking including alternative waste disposal site locations; h) Maintenance and testing program for spill clean up equipment and fire fighting equipment i) Training for site operations and emergency response personnel; and j) A plan, identifying the location and nature of wastes on site.	Completed in 2014.
84	EA 17(4) The proponent shall provide the Spill Contingency and Emergency Response Plan to the District Manager, the local Municipality of Clarington and the local Municipality of Clarington Fire Department a minimum of 30 days prior to the initial receipt of non-hazardous municipal solid waste at the site or such other date as agreed to in writing by the Director.	Completed in 2014.
85	EA 17(5) The proponent shall take all necessary steps to contain and clean up a spill on the site. A spill or upset shall be reported immediately to the ministry's Spills Action Centre at (416) 325-3000 or 1-800-268-6060.	The Spills Action Centre was notified on May 4th, 2019 and July 21th, 2019 regarding the exceedance of CO.

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Item	Condition	Supporting Evidence Sept 1-2, 2020
86	<p>Odour Management and Mitigation EA 18(1) The proponent shall prepare, in consultation with the ministry's Central Region Office and to the satisfaction of the Regional Director, and implement an odour management and Mitigation Plan for the undertaking.</p> <p>18(2) The Proponent shall prepare and submit the Odour Management and Mitigation Monitoring reports annually to the Regional Director with the first report submitted beginning six months following the initial receipt of non-hazardous municipal solid waste at the site or such other date as agreed to in writing by the Regional Director.</p>	<p>18(1) completed in 2015 18(2) 2019 Odour Management and Mitigation Monitoring Report</p>
87	<p>EA 18(3) The Odour Management and Mitigation Plan shall include at a minimum:</p> <ul style="list-style-type: none"> a) Standard operating and shut down procedures; b) Maintenance schedules; c) Ongoing monitoring for and reporting of odour; d) Corrective action measures and other best management practices for ongoing odour control and for potential operational malfunctions; e) A schedule for odour testing at sensitive receptors; and, f) A section that specifically addresses odour control measures should operation of the undertaking be disrupted or cease. 	<p>Completed in 2015.</p>
88	<p>EA 18(4) The proponent shall prepare and submit the Odour Management and Mitigation Monitoring Reports annually to the Regional Director with the first report submitted beginning six months following the initial receipt of non-hazardous municipal solid waste at the site or such other date as agreed to in writing by the Regional Director.</p>	<p>2019 Odour Management and Mitigation Monitoring Report.</p>
89	<p>EA 18(5) The Odour Management and Mitigation Monitoring Reports shall be submitted every 12 months from the date of the submission of the first report or until such time as the Regional Director notifies the proponent in writing that the odour management and Mitigation Monitoring Reports are no longer required.</p> <p>EA 18(6) The Proponent shall post the Odour Management and Mitigation Monitoring Reports on the proponent's web site for the undertaking following submission of the reports to the Regional Director.</p>	<p>No change in 2019.</p>
90	<p>Noise Monitoring and Reporting EA 19(1) The proponent shall prepare, and implement a Noise Monitoring and Reporting Plan for the undertaking.</p>	<p>No change in 2019.</p>
91	<p>EA 19(2) The proponent shall submit the Noise Monitoring and Reporting Plan to the Director a minimum of 90 days prior to the start of construction or such other date as agreed to in writing by the Director.</p>	<p>Completed in 2011.</p>
92	<p>EA 19(3) The Noise Monitoring and Reporting Plan shall include a protocol to ensure that the noise emissions from the facility comply with the limits set out in the Ministry of the Environment's Publication NPC-205 "Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban)", October 1995, as amended from time to time.</p>	<p>Completed in 2011.</p>
93	<p>EA 19(4) The proponent shall post the Noise Monitoring and Reporting Plan and on the proponent's web site for the undertaking following submission of the plan to the Director.</p>	<p>Available on website on April 1, 2019.</p>

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Item	Condition	Supporting Evidence Sept 1-2, 2020
94	Groundwater and Surface Water Monitoring and Reporting EA 20(1) Prior to the start of construction, the proponent shall identify any areas where the undertaking may affect groundwater or surface water. For those areas, the proponent shall prepare and implement, in consultation with the ministries Central Region Office and to the satisfaction of the Regional Director, a Groundwater and Surface Water Monitoring Plan.	Completed in 2016.
95	EA 20(2) The proponent shall provide the Groundwater and Surface Water Monitoring Plan to other any government agencies for review and comment, as may be appropriate.	Reduction in GW sampling frequency was approved by the Ministry on May 7, 2019.
96	EA 20(3) The Groundwater and Surface Water Monitoring Plan shall include at a minimum: a) A groundwater and surface water monitoring program; b) The proposed start date and frequency of groundwater and surface water monitoring; c) The contaminants that shall be monitored as part of the groundwater and surface water monitoring program; and, d) At least one meeting each year between the proponent and the Regional Director to discuss the plan, the results of the monitoring program and any changes that are required to be made to plan by the Regional Director.	a), b), c) Completed in 2012. d) Annual meeting conducted on November 1, 2019.
97	EA 20(4) The proponent shall submit the Groundwater and Surface Water Monitoring Plan to the Regional Director a minimum of 90 days prior to the start of construction or such other date as agreed to in writing by the Regional Director.	Refer to Item 94.
98	EA 20(5) The Regional Director may require changes to be made to the Groundwater and Surface Water Monitoring Plan and the proponent shall implement the plan in accordance with the required changes.	Refer to Item 94.
99	Groundwater and Surface Water Monitoring and Reporting EA 20(6) The groundwater and surface water monitoring program shall commence prior to the receipt of non-hazardous municipal solid waste at the site or such other time as agreed to in writing by the Regional Director and shall continue until such time as the Regional Director notifies the proponent in writing that the groundwater and surface water monitoring program is no longer required.	2019 Annual Groundwater Surface Water Annual Report, RWDI, April 20, 2020
100	EA 20(7) Thirty days after waste is first received on site, the proponent shall prepare and submit to the Director and Regional Director, a report containing all of the results of the groundwater and surface water monitoring program.	Refer to Item 99.
101	EA 20(8) The proponent shall prepare and submit to the Director and Regional Director an annual report containing the results of the groundwater and surface water monitoring program. The first report shall be submitted 12 months from the start of the monitoring program and every year thereafter.	Refer to Item 99.
102	EA 20(9) The proponent shall prepared and submit to the director and Regional Director, a reporting containing the results of the groundwater and surface water monitoring program within 30 days of any of the following events: (a) A spill occurs on site; (b) A fire or explosion occurs on site; (c) A process upset; or (d) Any disruption to normal operations that may directly or indirectly have an impact on groundwater or surface water.	Refer to ECA condition 7(14)(b)

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Item	Condition	Supporting Evidence Sept 1-2, 2020
103	EA 20(10) The proponent shall post the Groundwater and Surface Water Monitoring plan and all reports required by this condition on the proponent's web site for the undertaking following submission of the plan and reports to the ministry.	No change in 2019.
104	Types of Waste and Service Area EA 21(1) Only non-hazardous municipal solid waste from municipal collection within the jurisdictional boundaries of the Regional Municipality of Durham and the Regional Municipality of York may be accepted at this site.	Refer to ECA Conditions 2 (1), 2 (2), 2 (3).
105	EA 21(2) Materials which have been source separated for the purposes of diversion shall not be accepted at this site. This prohibition does not apply to the non-recyclable residual waste remaining after the separation of the recyclable materials from the non-recyclable materials at the materials recycling facility or other processing facility.	Refer to ECA Condition 2(3)(b).
106	EA 21(3) The proponent shall ensure that all incoming waste is inspected prior to being accepted at the site to ensure that only non-hazardous municipal solid waste is being accepted.	Refer to ECA Condition 4(2) and 4(3).
107	EA 21(4) If any materials other than non-hazardous municipal solid waste are found during inspection or operation, the proponent shall ensure that management and disposal of the material is consistent with ministry guidelines and legislation.	Refer to ECA Condition 4(3).
108	Amount of Waste EA 22(1) The maximum amount of non-hazardous municipal solid waste that may be processed at the site is 140,000 tonnes per year.	From the 2019 ECA Annual Report, total of 139,271 tonnes of waste was received; the maximum processed was 140,000 tonnes. Measures of waste: 1. weigh scale - calibrated quarterly 2. crane scale - calibrated in 2015 3. pit inventory - semi quantitative 4. the amount of waste process (for ECA) is actually determined by HHV Steam / Energy produced.
109	Notice of the Date Waste First Reviewed EA 23(1) Within 15 days of the receipt of the first shipment of waste on site, the proponent shall give the Director and Regional Director written notice that the waste has been received.	No change in 2019.
110	Construction and Operation Contracts EA 24(1) In carrying out the undertaking, the proponent shall require that its contractors, subcontractors and employees: a) full fill the commitments made by the proponent in the environmental assessment process, including those made in the environmental assessment and in the proponent's responses to comments received during the environmental assessment comment periods; b) meet applicable regulatory standards, regarding the construction and operation of the undertaking; c) obtain any necessary approvals, permits or licenses; and, d) have the appropriate training to perform the requirements of their position.	Refer to ECA condition 9(1) and 6
111	Amending procedures EA 25(1) Prior to implementing any proposed changes to the undertaking, the proponent shall determine what Environmental Assessment Act requirements are applicable to the proposed changes and shall fulfill those Environmental Assessment Act requirements.	No amendments in 2019.

APPENDIX E

Photograph of Waste Oil Drum Spill



Figure 1: During the virtual site visit, a small quantity of liquid was noted on the floor beside the waste oil drum. The above picture was provided to BluMetric following the audit and was taken after the liquid had been wiped up.

Sent by Email

October 2, 2020

Toronto and Region Conservation Authority
info@trca.ca

Subject: [Report PLN 16-20](#)
The Draft Carruthers Creek Watershed Plan 2020–2030
Prepared by Toronto and Region Conservation Authority
- City of Pickering Recommendations to the Draft Watershed Plan
File: A-1400-001-20

The Council of the Corporation of the City of Pickering considered the above matter at a meeting held on September 28, 2020 and adopted the following resolution:

1. That the Toronto and Region Conservation Authority (TRCA) be requested to revise the Draft Carruthers Creek Watershed Plan (CCWP), as follows:
 - (a) Providing greater clarity about the “77%” figure identified as the potential increase in downstream peak flows under the hypothetical land use Scenario 3 modelling analysis including: explaining that it is a “worst case” scenario and why; identifying the rainfall and storm duration parameters for a Hurricane Hazel type event; and relating the modelled increases in peak flows to the proposed management recommendations;
 - (b) Revising Management Recommendation 3.1.1 respecting the protection, expansion and restoration of the Natural Heritage System (NHS) in the watershed, to reflect discussion in the introductory text that precedes Table 8: NHS Management Recommendations, to allow consideration of alternative configurations, size and composition for an enhanced NHS to that identified on Map 2 of the Draft CCWP; and,
 - (c) Adding a new Management Recommendation 1.3.6 stating that TRCA continues to support and enhance the existing flood model by increasing the number of rainfall monitoring stations and stream flow gauges on all tributaries including the most minor.

2. That a copy of this Report and Council's resolution be forwarded to the TRCA, the Region of Durham and the Town of Ajax.

A copy of the original Report is attached for your reference.

Should you require further information, please do not hesitate to contact the undersigned at 905.420.4660, extension 2019.

Yours truly



Susan Cassel
City Clerk

SC:rp
Enclosure

Copy: Ralph Walton, Regional Clerk/Director of Legislative Services, Regional Municipality of
 Durham
 Nicole Cooper, Clerk, Town of Ajax

 Interim Chief Administrative Officer
 Director, City Development & Chief Building Official

Sent by Email

October 2, 2020

Shaun Collier
Mayor
Town of Ajax
Shaun.Collier@ajax.ca

Subject: Re: Use of Lottery Proceeds for Legions – Financial Hardships due to COVID-19
Corr. 45-20
File: A-1400-001-20

The Council of the Corporation of the City of Pickering considered the above matter at a meeting held on September 28, 2020 and adopted the following resolution:

1. That Corr. 45-20, dated September 2, 2020, from Shaun Collier, Mayor, Town of Ajax, regarding Use of Lottery Proceeds for Legions – Financial Hardships due to COVID-19, be endorsed; and,
2. That a copy of this Resolution be forwarded to the Hon. Doug Downey, Ministry of the Attorney General, Durham MPP's, and Durham Regional Municipalities.

A copy of the original correspondence is attached for your reference.

Should you require further information, please do not hesitate to contact the undersigned at 905.420.4660, extension 2019.

Yours truly



Susan Cassel
City Clerk

SC:rp
Enclosure

Copy: The Hon. Doug Downey, Ministry of the Attorney General
Lorne Coe, Member of Provincial Parliament, Whitby
Jennifer French, Member of Provincial Parliament, Oshawa
Lindsey Park, Member of Provincial Parliament, Durham
The Hon. Rod Phillips, Member of Provincial Parliament, Ajax
The Hon. Laurie Scott, Member of Provincial Parliament, Haliburton-Kawartha Lakes-Brock
The Hon. Peter Bethlenfalvy, Member of Provincial Parliament, Pickering-Uxbridge
Ralph Walton, Regional Clerk/Director of Legislative Services, Regional Municipality of Durham
Nicole Cooper, Clerk, Town of Ajax
Becky Jamieson, Clerk, Township of Brock
Anne Greentree, Municipal Clerk, Municipality of Clarington
Mary Medeiros, City Clerk, City of Oshawa
John Paul Newman, Director of Corporate Services/Clerk, Township of Scugog
Debbie Leroux, Director of Legislative Services/Clerk, Township of Uxbridge
Chris Harris, Clerk, Town of Whitby

Interim Chief Administrative Officer



Office of the Mayor

Tel. 905-683-4550
Fax. 905-683-8207

TOWN OF AJAX

65 Harwood Avenue South
Ajax ON L1S 2H9
www.ajax.ca

Hon. Doug Downey
Ministry of the Attorney General
doug.downey@pc.ola.org

September 2, 2020

Dear Minister Downey,

As I'm sure you are aware, COVID-19 has exacerbated the financial hardships faced by branches of the Royal Canadian Legion across the province by eliminating many of their revenue sources.

Ajax Council is a long-time supporter of the work done by the Legion in our community. In the last year alone, the Ajax Legion has donated over \$55,000 to causes in Ajax for young people and seniors alike, despite their own financial challenges.

I want to express my appreciation for your government's commitment to Legions as noted in your announcement of the Resilient Communities Fund through the Ontario Trillium Foundation. The Town will be supporting the Legion in its application for an upgraded HVAC system in advance of the December 2 deadline.

However, as eligible projects through this fund are limited to capital investments, there is still a substantial gap for operating funding faced by Legions across the province.

This gap has been made clearer than ever throughout the course of the pandemic, and has been unintentionally exacerbated by Section 2.7.4. of the AGCO's Lottery Licensing Policy. As you may be familiar, this section outlines how a Legion branch's lottery proceeds may be used and under what circumstances they may be approved by the lottery licensing agent. In Ajax, the Town's By-Law Services Department is the Ajax Legion's lottery licensing agent.

In winter 2016, the Town's Manager of By-Law Services spoke with the Manager of Eligibility Gaming, Mr. Tony Cuda, at the AGCO on two occasions regarding the eligible uses of lottery proceeds for the Royal Canadian Legions across the province, including the 2% cap on use of net lottery proceeds.

While there is a provision for the licensing authority to increase the maximum allowable percentage if the branch can prove the need, this is subjective and limiting – especially in a time of uncertainty. Other registered charities and not-for-profit organizations can use most of their charitable proceeds to pay for their operational expenses, but Legions are limited to only 2%.

This requirement places unfair hardship on Legions across the province, and it is my hope that you and your government will reconsider this position and dramatically increase this cap to prevent Legions from across Ontario from closing.

Legions are cornerstones of our communities and they need to be supported through any possible means during these troubling and uncertain times.

I look forward to your response, and am happy to provide any additional information you may need.

Sincerely,

A handwritten signature in black ink, appearing to read 'Shaun Collier', written in a cursive style.

Shaun Collier
Mayor
Town of Ajax

CC: Hon. Rod Phillips, MPP Ajax
Hon. Mark Holland, MP Ajax
Patricia Milne, President of the RCL Branch 322
Cam Guthrie, Chair of Ontario Big City Mayors

Dear Mayor, Council Members, Health Officer, Planning Dept

October 2020

Before the end of this year, 5G will be expanding into your area along with 17 other cities in Ontario.

Most cities are not aware about what 5G wireless entails, other than it's supposed to provide faster internet. This is proven false, and the Telecom Industry also negates to inform the public and Cities regarding the dire health consequences with 5G, especially regarding children. Cities also don't seem to be aware that this is not just a Federal or Provincial issue, but you have the power to enact moratoriums and ensure cell towers and small cells aren't placed near schools or homes. Studies have shown that cancer clusters are prevalent within 500m of towers.

250 scientists from 41 countries have written hundreds of peer reviewed science-based papers about the biologically harmful effects on people and the environment. Canada and Ontario are falling behind the many other nations/cities who have enacted restrictions and moratoriums on 5G placements and deployment, many using the Precautionary Approach and Nuremberg Code. China, Russia, Italy and Switzerland have RF limits 50 times safer than Canada.

The telecom industry has not performed any safety testing, is denied liability insurance, therefore is self-insured per single occurrence only, and the Federal governments' guidelines (Safety Code 6) are outdated with no safety testing done for millimeter waves. 5G is not just about untested technology, it's also about biology and misdirected authority. Consultation and informed consent have been taken away from the citizens.

5G entails many aspects, I've tried to streamline them as much as possible omitting volumes of research and data.

A moratorium would give your City time to have many questions answered and ensure the safety of residents, and limit possible liabilities.

Should you wish to have only a very quick overview, please watch the below two videos, which total less than 12 minutes with previous Microsoft President/CEO Frank Clegg who left the industry and is now pursuing citizen safety and industry accountability. The third video (24min) has to do with schools with Dr.Havas.

I've been requesting that the City of Hamilton (my home) to enact a moratorium on 5G thereby immediately stopping any further tower/small cell placements, deployment and contracting of such until it is proven safe, but haven't had much positive feed back to date. I'm hoping other cities will be more proactive. I respectfully, and pleadingly ask that you consider enacting a moratorium (as Niagara Falls, and several cities in Quebec have done) as soon as possible thereby immediately stopping any further tower/small cell placements, deployment and contracting of such.

I'm available either through email and welcome any questions or comments that you may have.

Respectfully,

Monica Nikopoulos, Stoney Creek, ON
ROHP, CNCP

April 2020 News video

2:50min

https://www.youtube.com/watch?v=Z-3-0Of6KmU&fbclid=IwAR3_431XB0wjU-YRwj9NYR3lnXGSBPNx0TnY9gmWKIBzB9Rz1Ygx02NMqDU

Frank Clegg, Microsoft past President/CEO May 2020, 5G Appeal and moratorium

8:42min

https://www.youtube.com/watch?v=xW7BbztmuYg&feature=emb_share&fbclid=IwAR1Rsd9d1qXJJohsK8IHwsSiok8Wa-LSIbSZOqjDPvzskqZLjBSztb29as

Wifi in Schools is Safe: True or False:

24min

<https://www.youtube.com/watch?v=6v75sKAUFdc>

5G OVERVIEW

WHAT

- 5th Generation of wireless Internet of Things (IoT)
- will connect with each other wireless phones, smart watches, appliances, cars, smart meters, medical records, private and corporate data, banking and finances, diapers, pacifiers, toothbrushes, etc
- thousands of satellites are being deployed [2], millions of cell towers erected (MIMO-Multiple input/multiple output), millions of small cell residential boxes (estimated cereal box sized, but may be much larger) placed 100-200m apart on lamp, traffic and hydro poles, on buildings and schools, inside man hole covers [3], disguised as city furniture, trees, décor, etc
- 5G is in addition to 1,2,3,4G existing wired fibre optic connections, it is not replacing previous versions. Therefore the levels of radiation are in addition to existing radiation from products ie cell phones, wifi
- promises to deliver lightening speed connections and downloads
- may cause higher electrical and power grid demands, possible surges
- non ionizing radiation is currently used for 1-4G - low frequency, low energy, long waves
- 5G is high frequency, high energy, short millimeter (mm) waves, long term untested, test sites in Canada (Vancouver, Calgary, Edmonton, Montreal, GTA) and globally
- 5G uses millimeter radio frequency (RF) waves and microwaves which emit radiation similar to microwave ovens. Data is transmitted through RF waves. 1-4G does not use mm waves and does not radiate, data is transmitted through cables
- 5G RF is beam forming [4,5] and travels through air, buildings, people/animals, but can suffer interference with some matters ie trees, therefore, trees may and are being cut down [6]

WHO

- Led by the telecom industry (ie Bell, Telus, Rogers) accountable to shareholders from billion dollar industry to trillion dollar industry in economic activity
- industry has not done safety testing for 5G [1]
- are self monitoring for RF limits/exposures
- are in the business for promoting a product meeting existing guidelines
- makes profit by collecting and selling data from “smart” product usage
- Canada and US have very similar guidelines and policies/mandates, among the highest allowable exposure limits in the world
- US FCC (Federal Communications Committee) is industry regulator. ISED (Innovation, Science and Economic Development Canada (Industry Canada)) is Canada's equivalent to FCC
- Health Canada sets standards/guidelines for Safety Code 6 (SC-6, 1929, 1978), does not ensure RF limits are monitored, has not done safety testing for 5G other than industry led hypothetical safety studies in labs for 6 min exposure
- ISED relies on and enforces SC-6, regulates wireless communication equipment and antenna installations. They do not ensure RF limits are monitored. ISED's mission is to promote and support industry
- CWTA (Cdn Wireless Telecommunications Assn) is industry's lobby group
- Tom Wheeler, Chair US FCC (industry regulator) stated that economic gain is preferable to waiting for testing and standards. The FCC also stands to gain billions from telecom industry [7]
- Insurance industry deems microwave radiation a “pollutant” along with smoke and asbestos and has many exclusions to insurance coverages. Therefore industry is self insured per single occurrence [8, 9, 9a]

CITY CONCERNS

GOVERNMENT / INDUSTRY POLICY

CONCERNS

1) Industry/ISED dictates to City tower and small cell placements on public property, thousands/millions placed in residential areas. Small Cells can be placed every 100-200m distance immediately outside of homes and schools. Industry will not accept possible health risks as cause for denial of tower/cell placements.

- some units require cooling equipment to avoid overheating

2) Some central cell boxes are heavy and could pose hazards during wind, snow, ice storms by falling on people/property, insufficient fall zones around street lights

4) Industry can increase cell tower height up to 25% through Antenna Siting Procedure [14]

-up to 24% tower height increase requires no public consultation or informed consent

5) no public consultation/notification for less than 15m height exemption for New Antenna Systems

6) Industry relies on Safety Code 6 (SC-6) for safety guidelines, no limits on non-thermal effects, outdated data stating tissue damage doesn't occur unless tissue heating is evident [15]

1) no public consultation, no informed consent, no disclosure on health risks, devalued homes, EHS (Electro Hyper Sensitivity) persons discrimination, involuntarily irradiated 24/7, placed at schools -excessive noise from cooling the ancillary equipment (up to 28 cubic feet) for each antenna would disturb residents, devalue homes, decrease quality of life -Cell towers in residential areas could create liability issues for peoples with EHS (W.H.O. Recognized disability) as "the Canadian Human Rights Commission recognizes EHS and states those living with environmental sensitivities are entitled to the protection of the Canadian Humans Rights Act, which prohibits discrimination on the basis of disability." [10]

- could the City be liable for not ensuring protection of vulnerable persons? [10a]

- if persons become disabled and cannot work and cannot afford to relocate, is the City prepared to handle an influx of disability related medical demands and unproductive members of community? [11]

- what safety precautions will workers near antennas/small cells have? ie firefighters [12], pilots [12a]

- Red flag warning if industry denies dialogue regarding placements due to health concerns and will not state that it is safe [13]

2) personal safety risk, property damage, per event occurrence may not adequately cover risks

-is City liable if industry does not have adequate coverage?

4) no public consultation, no informed consent, devalued homes, no disclosure on health risks, EHS persons discrimination, involuntarily irradiated 24/7. Industry cannot be relied upon to adequately disclose to residents any potential health risks, devalued homes. Residents are notified up to 3 times height of tower only, therefore many residents in neighborhood would not receive notification but would be greatly impacted, can be placed near schools affecting children [14a]

5) no public consultation, no informed consent, devalued homes, no disclosure on health risks, EHS persons discrimination, involuntarily irradiated 24/7, can be placed near schools affecting children

6) SC-6 (1978) [16] created by Health Canada with minimal updates, is outdated by today's technologies, does not include mm waves. Health Canada and FCC have not done any real life testing and falsely assumes non-thermal effects are harmless [13, 10]. Wifi doesn't heat tissue, but measured harmful effects are documented. Similar if you were to heat a chicken pot pie in the microwave. The outer crust can be cool (like non-thermal tissue heating) but the inside of the pie is hot. This is because the radiation heats up moist matter faster than dry matter. The thermal testing done for SC-6 were not full body effects, only localized derma for 6 minutes. Thousands of current research/scientists/nations have proven with weighted evidence that non thermal heating is very harmful but industry chooses to ignore data. Health Canada also retracted safety claims for asbestos, cigarette smoking, BPA, flame retardants, mercury, lead, thalidomide, urea formaldehyde insulation. May 31, 2011 WHO / IARC (World Health Organization/International Agency for Research on Cancer) classified radio frequency electromagnetic fields as possibly carcinogenic to humans 2B carcinogen (same category as lead, DDT, HIV, methylmercury compounds) [17]

CITY CONCERNS

GOV'T/ INDUSTRY POLICY

CONCERNS

7) SC-6 states "While Health Canada recommends limits for safe human exposure, Health Canada does not regulate the general public's exposure to electromagnetic RF energy." "...these limits to provide *significant level of protection for the general public*"

7) Health Canada does not state anywhere that 5G RF are harmless, especially with high frequency, high load data including mm waves. Real life simulations increase pulse activation s that can result in exponentially increased negative cellular damage. SC-6 guidelines do not include mm waves, nor has been tested humans for RF exposure for mm waves, with data load, or tested long term. Health Canada does not have the software to do proper studies. [18]

-SC-6 is exempt from Federal liabilities

-Industry also avoids wording that could imply any possible liabilities. European 5G tests showed directional systems of some wildlife severely compromised. Birds flew into objects, bees could not return to their hives resulting in death, spontaneous bird and insects deaths. [19, 20, 21, 21a, 21b, 21c, 21d]

- no public consultation, no informed consent to be involuntarily irradiated omnipresent 24/7, not informed about documented harmful health effects (comparable to tobacco industry law suits), no consent for data collection/privacy invasion, EHS persons discrimination

-The City may be held liable for not doing due diligence by blindly consenting to industry's mandates/technological upgrades by not contesting it and not representing/advocating for the safety and well being of the citizens, using the Precautionary Principal. City representatives, as persons of trust may also be held personally liable.

(under UCC Universal Commercial Code) [22]

Precautionary principle states that, in cases of serious or irreversible threats to the health of humans or ecosystems, acknowledged scientific uncertainty should not be used as a reason to postpone preventive measures. [23]

Criminal Code of Canada: Section 19: "Ignorance of the law by a person who commits an offense, is not an excuse for committing that offense" (This also applies when you're just "following orders".)

265(1) A person commits an assault when (a) without the consent of another person, he applies force intentionally to that other person, directly or indirectly; (b) he attempts or threatens, by an act or a gesture, to apply force to another person, if he has, or causes that other person to believe on reasonable grounds that he has, present ability to effect his purpose; or (c)....

Sec. 2. In this Act, "bodily harm" means any hurt or injury to a person that interferes with the health or comfort of the person and that is more than merely transient or trifling in nature;

265(1) A person commits an assault when (a) without the consent of another person, he applies force intentionally to that other person, directly or indirectly; (b) he attempts or threatens, by an act or a gesture, to apply force to another person, if he has, or causes that other person to believe on reasonable grounds that he has, present ability to effect his purpose; or (c) while openly wearing or carrying a weapon or an imitation thereof, he accosts or impedes another person or begs.

265(3) For the purposes of this section, no consent is obtained where the complainant submits or does not resist by reason of (a) the application of force to the complainant or to a person other than the complainant; (b) threats or fear of the application of force to the complainant or to a person other than the complainant; (c) fraud; or (d) the exercise of authority. [24]

221. Causing Bodily Harm by Criminal Negligence [25]

-The idea of informed consent has been universally accepted and now constitutes Article 7 of the United Nations' International Covenant on Civil and Political Rights. It also served as the basis for International Ethical Guidelines for Biomedical Research Involving Human Subjects proposed by the World Health Organization.

International Nuremberg Code: 1) The voluntary consent of the human subject is absolutely essential

4) The experiment should be so conducted as to avoid all unnecessary physical and mental suffering and injury. 5) No experiment should be conducted where there is an *a priori* reason to believe that death or disabling injury will occur; except, perhaps, in those experiments where the experimental physicians also serve as subjects. 6) The degree of risk to be taken should never exceed that determined by the humanitarian importance of the problem to be solved by the experiment [26]

CITY CONCERNS

GOVERNMENT / INDUSTRY POLICY

CONCERNS

8) SC-6- "While Health Canada recommends limits for safe human exposure, Health Canada does not regulate the general public's exposure to electromagnetic RF energy." *"the onus is on the control of the RF energy emitting source, to ensure that in any 6-minute time averaging period, the exposure limits will not be exceeded"* [28]

9) SC-6 "Canada's limits are consistent with the science-based standards used in other parts of the world (eg including the United States, European Union, Japan, Australia and New Zealand)"

10) Industry is denied certain liability insurances involving mm RF, and is self insured for single occurrences [31a]

11) Promises to deliver faster networking, better connectivity, faster download speeds.

12) municipal trees will be cut down as they can interfere with radio wave reception

8) RF is used by the military for crowd control by "turning up" the RF (Active Denial System) to produce burning skin and eyes. Russia considers RF a bio weapon (1977) [27] [4]
-can be used for citizen surveillance during lock downs and martial law
-can be controlled via satellites by other nations as form of warfare
-can industry and City ensure residents that all towers and small cells are regularly monitored and no excessive RF limits will be reached, especially with global hacking being an issue?
-can industry and City ensure potential power surges limit human exposure and will not knock out the power grid/create fires because of beam forming risks?

9) Many countries and cities (ie Niagara Falls [30]) have enacted 5G restrictions and moratoriums. China, Russia, and parts of Italy and Switzerland have guidelines that are 50 times safer than Canada.
-Many nations include specific restrictions regarding children, near schools, playgrounds, hospitals, nursing homes, banned wifi in schools/daycare, some countries have banned children under 2 using a phone. Lawsuits globally are taking place from RF harms caused to human health. [31,32,33,34,10a]
- can the City handle the predicted influx of autism, cataracts, dermatitis, heart attacks, dementia, depression, chronic fatigue patients and increase in disability cases?

10) Should a unit overheat/explode/catch fire and cause injury to a car, a house and a person simultaneously, industry's insurance may not cover all three occurrences. Does the industry have adequate insurance? -would the city be liable in any way if the industry's insurance isn't adequate? - what assurance do citizens/City have should a power surge occur and cause wide spread damage to homes, electrical appliances, phones, computers because of penetrating millimeter wave beams?

11) These claims are proven false [31b, 31c]. Wired is 100 times faster, uses 3.5-10 times less power with less strain on the electrical grid thus less costly and more green, is more maintenance free, is more reliable and most infrastructure is already in place utilizing 4G. [31] The Institute for Electrical and Electronics Engineers (IEEE) indicates, "Wireless technologies will continue to consume at least 10 times more power than wired technologies when providing comparable access rates and traffic volumes." Investing in rural wired should be considered for wider coverage as 5G RF pose extreme fire risks in fields/forests [35]. Bell Canada's website states "Bell's 5G is backed by fibre, the world's best network technology. This allows for a faster and more reliable network"..... "providing the best foundation for 5G." [36]

-Industry neglects to detail data security vulnerabilities. Because RF waves are used, it's similar to turning on the radio. But it would be our data that would be airing. Current cabled networks are much less prone to hacking. 5G RF waves unsecure all private and corporate data, cell phone conversations and texts, medical records, banking and retail transactions, , appliance usage, smart cars. How will the City ensure citizens data is secure? Can the electrical grid handle added strain?

12) trees are required for air quality, reducing city heat, required for insects/birds for foliage and vegetable proliferation both urban and rural. 5G is shown to dry out foliage inducing fire hazards both urban and rural. Residential areas will look barren and unappealing decreasing property values, farmers crops could be compromised [35,37]

MORATORIUM SUGGESTIONS / EXAMPLES

A moratorium would give the City time to have many questions answered and ensure the safety of residents, and limit possible legal liabilities.

He who is silent, when he ought to have spoken and was able to, is taken to agree. Contract Law may offer some additional assistance to the City as the law demands that the consent of the party be both free and informed [38]. Industry clearly has not undertaken measures to inform either the public at large or the City of all of 5G's implications.

Globally, many nations and cities are placing restrictions and moratoriums on 5G activities, cell tower and small cell placements, especially concerning schools and children, and regaining their City's authority and decision making. Since 5G is installed on public property, the public/City should have a voice in placements and regulations and not the industry. It should not be up to the public to prove it is unsafe but it is the industry's responsibility to prove it is safe before installation, failure to do so is unlawful.

The wording and reasons for a moratorium are many, some examples are citing no public informed consultations and consent, workers near RF emitters cannot be adequately protected, insufficient studies to ensure no undue expenses to City/infrastructures/health care system, conflicting data to ensure public safety, data security, Criminal & Nuremberg Codes, unclear liability issues which may fall onto the City and it's representatives personally.

Even if industry is in the processes and motions of erecting towers/cells etc, the City can still have work stopped immediately. Contract Law in Canada states "No one can be held to a promise involuntarily made. When consent is given by error, under physical or moral duress, or as a result of fraudulent practices, the contract may be declared null and void at the request of the aggrieved party. In certain types of contractual relationship, the law demands that the consent of the party be both free and informed." [38]

Some examples of inclusions for moratoriums are:

1. It is critical that all levels of Government [39]

Acknowledge that current assumptions about the safety of electromagnetic radiation (EMR) are outdated and must be revised.

Offer protection and choice for electrosensitive individuals and children who are exposed to EMR in their homes and schools.

2. Health Canada must overhaul its process for updating Safety Code 6.

Implement the recommendations of the House of Commons, Standing Committee on Health 2010 Report.

Provide full disclosure for all information regarding all studies and documents reviewed, included and excluded; funding of all participants.

Update all analysis/guidelines to keep pace with the rapid acceleration of technology.

3. Industry Canada must update CPC-2-0-03 Radiocommunication and Broadcasting Antenna Systems.

Eliminate exemption guidelines and notify residents of all new cell towers or antennae planned in their community.

Consultation must include all issues of concern to the public

Some real authority needs to rest with local land use authorities

As technology advances and becomes a bigger part of our lives, Canadians' exposure to electromagnetic radiation (EMR) from sources like cell phones, wi-fi, cordless phones and cell towers is growing exponentially. Unfortunately, there is no proof that EMR emissions are safe. More and more studies are emerging that suggest non-ionizing radiation is actually biologically harmful and that chronic long-term exposure can lead to cumulative damage. In addition, studies in Israel and Brazil have linked long term exposure to cell towers with an increase in cancer.

MORATORIUM SUGGESTIONS / EXAMPLES con't...

Suggestions to Niagara Falls from C4st.org delegation [40]

1. Provide public education as to safer options and use of digital devices.
2. To ensure that Public Health is being protected, collect data and report back to the public anonymized details of adverse effects of wireless installations. Establish a hotline and/or website for the public to report.
Recognize potential for and limit liability
3. Require proof of liability insurance against harmful effects of the RFR on health, from all telecommunications companies deploying wireless technologies in the jurisdiction.
4. Require public notice and consultation for all wireless antennae deployment, including on smaller poles (that are closer to people), or in the vicinity of schools/daycares, until there is further information and study of health and environmental effects. **Should Council be over-ruled, this will be on the public record and be relevant regarding liability in the event of harms attributed to this radiation.**
5. **Raise this issue with the Federation of Canadian Municipalities, and seek review of the agreement with the Canadian Wireless Telecommunications Association.**
6. Question the true need for further wireless infrastructure, and whether fibre options are maximized. Fibre optic and wired connectivity is safer, faster, more secure and resilient, and is more climate-friendly because it entails lower greenhouse gases.
7. Should the City lease space on poles for antennae, this agreement should be audited to determine the fraction of real costs that are recouped or subsidized
8. **We encourage that any contract or lease agreement be renewed on an annual basis.** Thus if we learn, for example, that people are becoming ill or that birds are dying or that there are any adverse biological/heath effects, the antennas can be removed legally and in a timely fashion.
9. **Place a moratorium on the installation of small cell antennae on city owned property until Safety Code 6 is update using the international standards of scientific review**

.....

Guelph Calls for Moratorium: [41]

That the City of Guelph calls upon the Minister of Industry not to approve any new radio communications facilities within the City of Guelph until the review of Safety Code 6 is completed.

That the City of Guelph's resolution be forwarded to the Federation of Canadian Municipalities (FCM), Association of Municipalities of Ontario (AMO), the Prime Minister of Canada and Cabinet, and all Members of Parliament.

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Niagara Falls Moratorium, June 2020 [42]

The report recommends for the information of Council.

ORDERED on the motion of Councillor Lori Lococo, Seconded by Councillor Carolyn Ioannoni that the City of Niagara Falls request the Federal Government to review:

- the necessity for municipal consultation of 5G placement of antennas and towers through the Antenna Tower Siting Procedure.
- the removal of the up to 25% increase of height exemption of Existing Antenna Systems, which would allow for consultation.
- the removal of the less than 15 metres height exemption for New Antenna Systems, which would allow for consultation.
- the removal of the Non-Tower Structures exemption (antennas on buildings, water towers, lamp posts, etc), which would allow for consultation.

Carried Unanimously

MORATORIUM SUGGESTIONS / EXAMPLES con't...

TEMPLATE RESOLUTION: CALL ON THE GOVERNMENT OF CANADA TO STOP THE ROLL-OUT OF 5G NETWORKS AND ENSURE THAT THE FIBRE-OPTIC NETWORK IS AVAILABLE TO ALL CANADIANS
http://cqlpe.ca/pdf/Model_Resolution.pdf

HESA 2015 12 RECOMMENDATIONS FOR CITIES

RADIOFREQUENCY ELECTROMAGNETIC RADIATION AND THE HEALTH OF CANADIANS

Report of the Standing Committee on Health, June 2015

http://www.c4st.org/images/hesa-2015/412_HESA_Rpt13-e.pdf

REQUEST FOR MORATORIUM TO ISED on the issuance of new licenses

Canada Gazette, Part I, June, 2017, "Consultation on Releasing Millimetre Wave Spectrum to Support 5G", notice

<http://c4st.org/c4st-submission-to-the-industry-science-and-economic-development-ised-public-consultation-on-5g/>

FURTHER RESEARCH

September 30, 2019, **Niagara Falls Information Session,**

-Presentation to the public by Frank Clegg, Meg Sears, Magda Havas Part 1 - 60min

<https://www.youtube.com/watch?v=rWScefg7y3c&t=2s>

What is 5G	9:06 - 13:00
Live sperm exposure, global sources	24:15 - 27:57
Crowd control/weapon	27:57 - 30:53
WHO recognizes EMR injury	31:43 - 32:41
Live blood cell WiFi	33:58 - 34:10
Tissue heating false premise	45:00 - 45:40

-Presentation to the public by Frank Clegg, Meg Sears, Magda Havas, Part 2 - 40min

<https://www.youtube.com/watch?v=hfbdu2oiik8&t=16s>

Legislation other countries	3:14 - 6:47
Wired vs wireless security/power drain	6:51 - 7:56
Industry strategies	7:57 - 15:36
Q & A -5G test- birds falling out of sky	25:28 - 26:06
- 24/7exposure	28:20 - 30:18

Wifi in Schools is Safe: True or False: <https://www.youtube.com/watch?v=6v75sKAUFdc> 24min

Aug 6, 2020 News Article: **700-plus Medical and Scientific Professionals Urge the FCC to Hold Off Approving Spectrum for 5G**

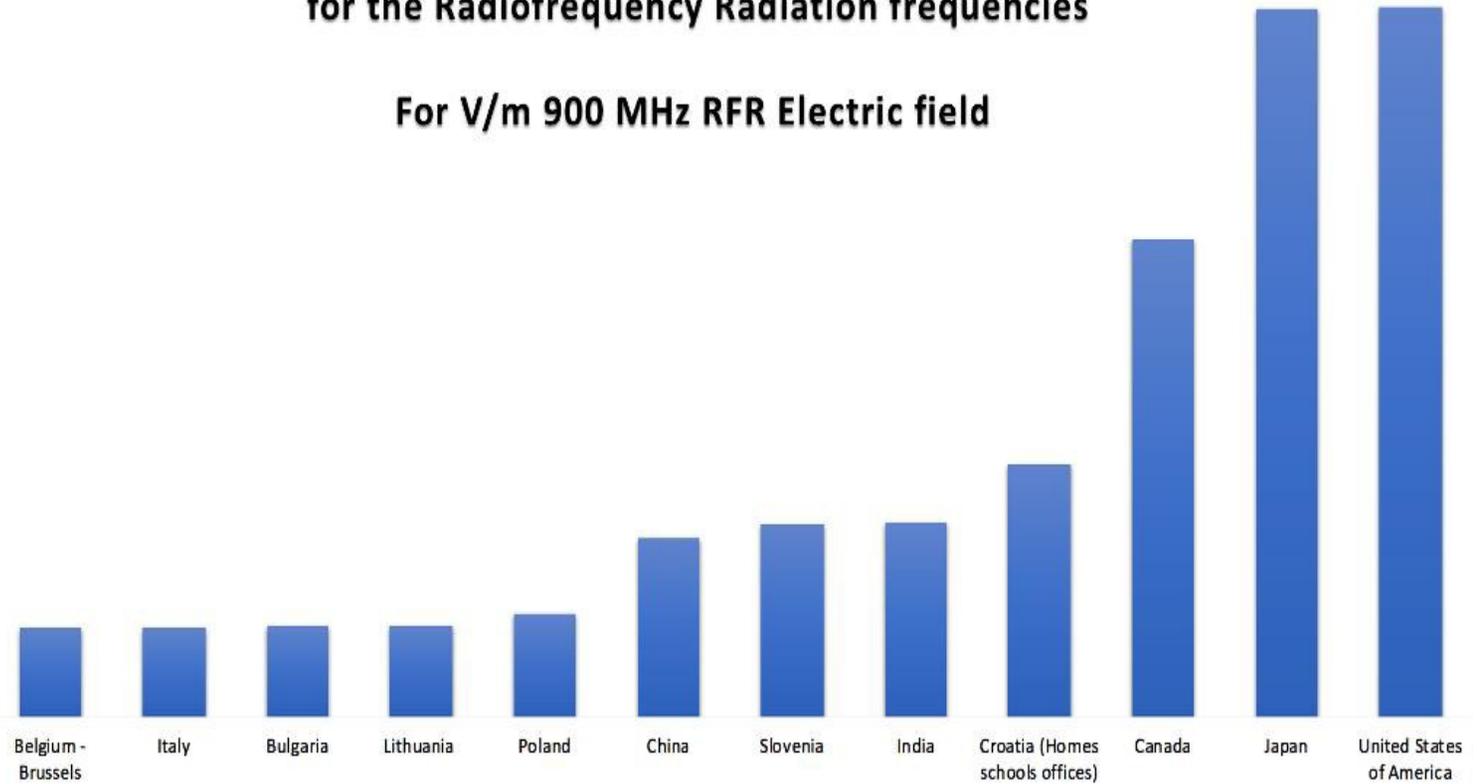
<https://verocommunique.com/2020/08/06/700-plus-medical-and-scientific-professionals-urge-the-fcc-to-hold-off-approving-spectrum-for-5g/>

<http://c4st.org/5gappeal/>

<https://ehtrust.org/international-actions-to-halt-and-delay-5g/>

Comparison of Selected Countries Permissible Limits for the Radiofrequency Radiation frequencies

For V/m 900 MHz RFR Electric field



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- [4] <https://www.youtube.com/watch?v=rWScefg7y3c&t=2s> Crowd control/weapon 27:57 – 30:53 C
- [5] <https://www.5gworldpro.com/5g-knowledge/100-how-beamforming-exactly-works-in-5g-nr.html>
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Email sent from Jim Abernethy, former Mayor of Clarington, to Chairman Henry and Members of Regional Council.

August 7, 2020

RE: Anaerobic Digestion (AD) Project - RFQ Process - Region of Durham

Good morning Mr. Chairman and Members of Council,

I have been following the public process in the Region of Durham site selection and RFQ processes for your Anerobic Digestion (AD) project.

Mr. Chairman you may recall yourself and I, along with some of your current Members of Council were very much involved together in the decision-making process for the Clarington Energy-From-Waste project.

During my term as Mayor of Clarington (2006-2010), I felt responsible for thoroughly understanding the various waste management processes available to the Region of Durham ahead of the Provincial decision to approve the York-Durham EFW facility in Clarington. Those various options included Anerobic Digestion (AD) facilities.

My due diligence included touring approximately 18 facilities during trips to Europe (twice), Florida, British Columbia, and Nova Scotia. Please note I paid personally for all of those trips, fulfilling my 2006 election campaign promise of "no" international trips on the taxpayer's dime.

I have no opinion on your site selection process, nor your decision to implement an AD facility within the Region of Durham.

However, I did gain considerable knowledge about the waste industry and the RFP process. I would like to share my thoughts

on your current RFP process and the direction you have given Regional Staff to negotiate a partnership agreement with EPCOR for the AD facility you are planning to build.

You might be interested to know the City of Edmonton has now released a Request For Proposal (RFP) for an AD facility to be built for the City of Edmonton.

I understand you have directed staff to investigate the possibility of joint venturing the ownership of our Durham AD facility with EPCOR, a private company owned by the taxpayers of Edmonton.

As part of your due diligence, may I suggest you pay close attention to the similarities in the Edmonton AD project and how they relate to our Durham AD project.

I understand there are various bidding teams competing for the Edmonton contract, forming up and preparing their responses to the Edmonton RFP.

I understand one of those possible bidding teams participating in the Edmonton RFP should give concern to all Members of the Region of Durham. This potential bidding team consists of:

- Epcor – GHD – Suez.
- Stantec is the “Owners Engineer”

The point being, GHD is the Engineer you have hired to oversee your RFP process and eventual build-out of the project. There appears to be a conflict of interest for GHD based on the historical partnership and business relationships GHD has with the potential Edmonton bidding team member companies.

In my opinion, you have an obligation to the taxpayers of the

Region of Durham to further investigate any potential conflict of interest as it relates to all companies participating in your AD project. As Councillors, you may even have dire personal consequences with respect to the Ontario Conflict of Interest Act, if you approve a project without taking steps to vet any potential conflict of interests among companies participating in your AD project.

Here is how I understand the bidding teams may stack up:

	<u>Durham Region</u>	<u>Edmonton</u>
Team:	Suez Stantec	Suez GHD Epcor
Owners	Epcor	N/A
Owners Eng	GHD	Stantec

For example, if Suez wins the Durham Region bid with the structure they have and the players involved, there could be law suits filed against the Region for a variety of reasons.

Is this where you want to lead the Region of Durham? Is the Region innocently walking into this? What can you do to protect the best interests of Region of Durham taxpayers?

Questions you should be asking your Integrity Commissioner, Legal Council, Commissioner of Works, and GHD:

1. What is the business relationship GHD has with the potential bidding team members?
2. Has GHD, Stantec, Suez or GHD disclosed to the Region any past joint ventures or business partnerships with each other, if any?

3. Has your legal department investigated partnership and historical business relationships between these companies?
4. Can GHD be the Engineer for the Region of Durham (designing & evaluating team participating in the RFQ process) if they are competing against those same teams in other markets.
5. Have you consulted with your Integrity Commissioner for an opinion on GHD's potential conflict of interest?
6. What does this mean for you personally if it is determined GHD has a conflict of interest ?
7. Can EPCOR be an owner or partner of the Durham AD project and at the same time have a role in the process of selecting the supplier(s) to build and operate the facility?

These are important questions you should be asking as you formulate your RFP plan to build the Durham AD facility ?

Thank you for your consideration in this matter.

Sincerely,



Jim Abernethy
Former Mayor of Clarington (2006-10)
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