



The Regional Municipality of Durham

Works Committee Agenda

Council Chambers
Regional Headquarters Building
605 Rossland Road East, Whitby

Wednesday, February 6, 2019

9:30 AM

1. Declarations of Interest

2. Adoption of Minutes

A) Works Committee meeting – [January 9, 2019](#)

Pages 4 - 15

3. Statutory Public Meetings

There are no statutory public meetings

4. Delegations

4.1 A. Williamson, President, Pine Grove Cemetery Board, re: Regional Water Installation at the Ontario Pine Grove Cemetery

5. Presentations

There are no presentations

6. Waste

6.1 Correspondence

A) Information Report #[2018-INFO-127](#): Single Use Plastics

16 - 24

Recommendation: Receive for Information

This item was tabled at the January 9, 2019 Works Committee meeting.

6.2 Reports

- | | | |
|----|--|---------|
| A) | City of Vancouver Single-Use Items Reduction Strategy
(2019-WR-1) | 25 - 31 |
| | This item was tabled at the January 9, 2019 Works Committee meeting. | |
| B) | Award of Request for Proposal #633-2018 Energy from Waste Facility Professional Services for Operations and Maintenance Monitoring Services for the Durham York Energy Centre
(2019-WR-2) | 32 - 35 |
| C) | Energy from Waste – Waste Management Advisory Committee (Host Community Agreement Committee) Membership Appointments (2019-WR-3) | 36 - 42 |

7. Works

7.1 Correspondence

7.2 Reports

- | | | |
|----|---|----------------|
| A) | Site Plan Agreement for the Regional Municipality of Durham Municipal Hazardous and Special Waste Facility, in the Municipality of Clarington (2019-W-10) | 43 - 45 |
| B) | Report on Private Wells on Fielding Court in the Town of Ajax
(2019-W-11) | 46 - 59 |
| C) | Bulk Water Filling Stations and Hydrant Permits – Status Updates (2019-W-12) | 60 – 67 |
| D) | Additional Background Information Regarding the Legalities of the 2005 Ontoro Boulevard and Range Road Petition Process and Proposed Next Steps (2019-W-13) | 68 - 91 |

8. Advisory Committee Resolutions

There are no advisory committee resolutions to be considered

9. Confidential Matters

There are no confidential matters to be considered

10. Other Business

11. Date of Next Meeting

Wednesday, March 6, 2019 at 9:30 AM

12. Adjournment

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The Regional Municipality of Durham

MINUTES

WORKS COMMITTEE

Wednesday, January 9, 2019

A regular meeting of the Works Committee was held on Wednesday, January 9, 2019 in the Lower Level Boardroom (LL-C), Regional Headquarters Building, 605 Rossland Road East, Whitby, Ontario at 9:30 AM

Present: Councillor Mitchell, Chair
Councillor Marimpietri, Vice-Chair
Councillor Barton
Councillor Crawford
Councillor John Neal
Councillor Smith
Regional Chair Henry

Also

Present: Councillor Ashe left the meeting at 11:34 AM
Councillor Collier left the meeting at 11:35 AM
Councillor Dies
Councillor Joe Neal

Absent: Councillor McLean

Staff

Present: E. Baxter-Trahair, Chief Administrative Officer
G. Anello, Manager, Waste Planning and Technical Services, Works Department
J. Demanuele, Director of Business Services, Works Department
J. Harness, Manager of Administrative Services & Real Estate, Works Department
J. Hunt, Director of Legal Services, Corporate Services – Legal Services
R. Jagannathan, Director of Transportation and Field Services, Works Department
M. Januszkiewicz, Director of Waste Management, Works Department
J. Paquette, Manager (Works), Corporate Communications
N. Pincombe, Director of Business Planning, Economic Studies & Risk Management, Finance Department
J. Presta, Director of Environmental Services, Works Department
S. Rashad, Systems Support Specialist, Corporate Services – IT
S. Siopis, Commissioner of Works
S. Penak, Committee Clerk, Corporate Services – Legislative Services

1. Declarations of Interest

There were no declarations of interest.

2. Adoption of Minutes

Moved by Councillor Smith, Seconded by Regional Chair Henry,
(1) That the minutes of the regular Works Committee meeting held on
Wednesday, December 12, 2018, be adopted.

CARRIED

3. Statutory Public Meetings

There were no statutory public meetings.

4. Delegations

4.1 George Rocoski, Chair, and Paul Ankrett, Vice-Chair, Energy from Waste-Waste Management Advisory Committee, re: Annual Update Report

G. Rocoski appeared before the Committee with a PowerPoint presentation in regard to the Energy from Waste–Waste Management Advisory Committee Annual Update Report. A copy of the presentation was provided as a handout.

Highlights from the presentation included:

- Committee Members 2016-2017
- 2018 Committee Update
- 2018 Committee Meetings
 - Thursday, March 1, 2018
 - Thursday, May 24, 2018
 - Thursday, August 23, 2018
- 2018 Events
- 2018 Summary
- 2019 Anticipated Areas of Interest

G. Rocoski highlighted the purpose of the Committee; live-streaming of the EFW–WMAC meetings; status of anaerobic digestion; extension of the term of appointment to the Committee; and updates on the emissions from the Durham York Energy Centre (DYEC).

Moved by Councillor John Neal, Seconded by Regional Chair Henry,
(2) That G. Rocoski be granted a one-time 2-minute extension in order to finish his delegation.

CARRIED

G. Rocoski responded to questions from the Committee.

S. Siopis noted that arrangements can be made for Committee members to tour the Durham York Energy Centre and other solid waste management facilities.

5. Presentations

5.1 John Presta, Director of Environmental Services, re: 2019 Water Supply and Sanitary Sewerage Business Plans and Budgets (2019-W-7) [Item 7.2G]

J. Presta provided a PowerPoint presentation regarding the 2019 Water and Sanitary Sewerage Business Plans and Budgets.

Highlights from the presentation included:

- Durham's Sanitary Sewerage System at a Glance
- Durham's Water Supply System at a Glance
- Durham Region Strategic Plan
- Sanitary Sewerage System Performance in 2017
- Watermain Performance – Five-year Summary
- Water Supply System Performance Indicators for the last 5 years
- Sanitary Sewage Electricity Cost and Consumption
- Water Supply Electricity Cost and Consumption
- Water and Sanitary Sewage Electricity Charge Accounts
- The Proposed 2019 Budgets
- Water and Sanitary Sewerage User Rate Increase
- Sanitary Sewerage Budget Summary
- Sanitary Sewerage Capital Program – Construction of Municipal Services
- Sanitary Sewerage Capital Funding Breakdown for the Construction of Municipal Services
- Sanitary Sewerage Operating Budget
- Water Supply Budget Summary
- Water Supply Capital Program – Construction of Municipal Services
- Water Supply Capital Funding Breakdown for the Construction
- Water Supply Operating Budget
- Major Projects:
 - Centre St. from Miller St. to Dunlop St., Whitby
 - Bloor St. from Ritson Rd. to Wilson Rd., Oshawa
 - Courtice Trunk Sanitary Sewer and Feedermain
 - Newcastle Water Supply Plant and Sanitary Sewage Pumping Station

J. Presta advised that the Sanitary Sewerage Program and the Water Supply Program is user rate supported and is not financed by property taxes. He advised that the Water and Sanitary Sewerage User Rate overall combined increase was 1.8%.

J. Presta responded to questions regarding how contingencies are built into various projects; and whether polybutylene replacement was included in the budget.

Councillor Joe Neal referenced page 74 of the agenda (Attachment #1 to Report #2019-W-7) and asked for clarification on how the \$41 million was estimated for the Construction of Municipal Services in Newcastle, and the 0.15% increase for the water supply system.

S. Siopis agreed to provide Councillor Joe Neal with further information regarding the \$687,000 allocated in the budget for new Fleet/Equipment.

6. Waste

6.1 Correspondence

A) Information Report #2018-INFO-127: Single Use Plastics

Discussion ensued with respect to actions being taken in Durham Region regarding single use plastics and the implications resulting from the international markets not accepting single use plastics. Additional discussion ensued regarding the actions being taken by the Provincial Government and the move toward extended producer responsibility.

Moved by Regional Chair Henry, Seconded by Councillor Marimpietri,
(3) That Information Report #2018-INFO-127 of the Commissioner of Works be received for information.

CARRIED
(MOTION TABLED LATER IN THE MEETING)
(See Motion (4))

It was the consensus of the Committee that the agenda be altered in order to consider Item 6.2 A), Report #2019-WR-1: City of Vancouver Single-Use Items Reduction Strategy next.

6.2 Reports

A) City of Vancouver Single-Use Items Reduction Strategy (2019-WR-1)

Report #2019-WR-1 from S. Siopis, Commissioner of Works, was received.

Detailed discussion ensued regarding extended producer responsibility and the potential for Durham Region to follow along similar lines; whether Durham has any influence in getting corporations/local companies to reduce packaging; and the importance of continuing public education related to product packaging.

Staff was requested to draft a motion as an amendment that acknowledges the issues raised in Report #2018-INFO-127 and Report #2019-WR-1; the need for urgent action; and outlines what is best for Durham Region. The motion should also be forwarded to the Provincial and Federal governments as a statement of Council's position. Staff was directed to bring the motion back to the next Works Committee meeting to be held on February 6, 2019.

Discussion ensued regarding the tabling of Items 6.1A) Information Report #2018-INFO-127: Single Use Plastics and 6.2 A) City of Vancouver Single-Use Items Reduction Strategy (2019-WR-1) in order to allow staff to draft the appropriate motion for consideration with the reports at the next Works Committee meeting.

Moved by Regional Chair Henry, Seconded by Councillor Marimpietri,
(4) That Report #2018-INFO-127 and Report #2019-WR-1 of the Commissioner of Works be tabled to the next Works Committee meeting to be held February 6, 2019.

CARRIED

6. Waste

6.1 Correspondence

B) Information Report #2018-INFO-158: Durham York Energy Centre Source Test Update

In response to a question, S. Siopis advised that there were no concerns with how the Durham York Energy Centre is operating.

Staff agreed to provide Councillor Joe Neal with hard copies of the memos attached to Report #2018-INFO-158, and an update regarding the operations of the AMESA cartridge.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,
(5) That Information Report #2018-INFO-158 of the Commissioner of Works be received for information.

CARRIED

7. Works

7.1 Correspondence

A) Correspondence dated December 5, 2018 from the City of Oshawa re: Proposed Community Safety Zones for the U.O.I.T and Durham College Campus Area

Moved by Councillor Marimpietri, Seconded by Councillor Barton,
(6) That the correspondence from the City of Oshawa regarding proposed community safety zones for the U.O.I.T and Durham College Campus Area dated December 5, 2018 be referred to consideration of Report #2019-W-8 of the Commissioner of Works.

CARRIED

7.2 Reports

- A) Issuance of an Encroachment Agreement within the Road Allowance at the Corner of Westney Road North (Regional Road 31) and Kingston Road West (Regional Highway #2), in the Town of Ajax (2019-W-1)
-

Report #2019-W-1 from S. Siopis, Commissioner of Works, was received.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,
(7) That we recommend to Council:

- A) That an Encroachment Agreement with Durham Condominium Corporation 102 permitting the encroachment of a walkway located at 2 Westney Road North, in the Town of Ajax extending 7.5 metres (24.6 feet) within the Kinston Road (Regional Highway #2) road allowance be approved; and
- B) That the Regional Chair and Clerk be authorized to execute all documents associated with this agreement.

CARRIED

- B) Site Plan Agreement for the Construction of the Newcastle Water Supply Plant, in the Municipality of Clarington (2019-W-2)
-

Report #2019-W-2 from S. Siopis, Commissioner of Works, was received.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,
(8) That we recommend to Council:

That the Regional Chair and Clerk be authorized to execute all documents associated with the site plan agreement and building permit process for the construction of the new Newcastle Water Supply Plant, in the Municipality of Clarington.

CARRIED

- C) Petition for the Construction of a Watermain on Ontoro Boulevard and Range Road, in the Town of Ajax (2019-W-3)
-

Report #2019-W-3 from S. Siopis, Commissioner of Works, was received.

Discussion ensued regarding the details of the petition for the construction of a watermain on Ontoro Boulevard and Range Road, in the Town of Ajax; whether a new petition was possible; and whether there was any compromise available regarding subsidizing the landowners for the cost of the watermain or decreasing the interest rate.

Moved by Councillor John Neal, Seconded by Councillor Smith,

- (9) That Report #2019-W-3 of the Commissioner of Works be referred back to staff for a report to include additional information from Legal – Corporate Services for the next Works Committee to be held on February 6, 2019.

CARRIED

- D) Extension of Water Services to Replace Private Wells in the Range Road/Ontoro Boulevard Area, in the Town of Ajax (2019-W-4)

Report #2019-W-4 from S. Siopis, Commissioner of Works, was received.

Detailed discussion ensued regarding the initial request for petition for services in July 2005 from residents of the Range Road/Ontoro Boulevard area; when the Greenbelt Act came into force; and the outcomes of the Greenbelt review that occurred in 2016.

J. Hunt advised he would provide Councillor Joe Neal with information regarding the maps of impacted properties after the Greenbelt Act came into force.

Councillor Collier referenced numerous documents including Section 2.1 of Report #2018-INFO-80: Petition – Range Road/Ontoro Boulevard Area Construction of Watermain. J. Hunt advised of the complex legislative background regarding the Range Road/Ontoro Boulevard Area. Councillor Collier requested that the 2005 petition be upheld.

Moved by Councillor John Neal, Seconded by Councillor Smith,

- (10) That Report #2019-W-4 of the Commissioner of Works be referred back to staff for a report to include additional background information from Legal – Corporate Services regarding the legalities of the 2005 petition on Ontoro Boulevard and Range Road for the next Works Committee to be held on February 6, 2019.

CARRIED

Staff advised that they would come back to the next Works Committee meeting to be held February 6, 2019 with additional background information regarding the 2005 petition on Ontoro Boulevard and Range Road.

E) Report on Tenders and Additional Financing for Regional Municipality of Durham Contract D2018-005 for Townline Road (Regional Road 55) and Pebblestone Road Intersection Modifications in the City of Oshawa and Municipality of Clarington (2019-W-5)

Report #2019-W-5 from S. Siopis, Commissioner of Works, was received.

In response to a question, staff advised the Committee that Hard-Co Construction Ltd. would have the ability to do the paving themselves or contract it out.

S. Siopis agreed to provide Councillor Joe Neal with information on whether Hard-Co Construction Ltd. provides the actual paving services or sub-contracts the service out.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,
(11) That we recommend to Council:

- A) That the low compliant bid of Hard-Co Construction Ltd., in the amount of \$1,166,186*, be awarded for Regional Municipality of Durham Contract D2018-005 resulting in a total estimated project cost of \$2,124,000;
- B) That the previously approved project budget of \$1,662,000 be increased for \$462,000 to a revised total project budget of \$2,124,000;
- C) That the funding for the additional project commitments in the amount by \$462,000 be provided from the following source:

Reallocation from Contingencies within Project R1402 Taunton Road and Enfield Road Intersection Modifications:

Residential Development Charges	\$282,744
Commercial Development Charges	\$41,580
Roads Capital Reserve	<u>\$137,676</u>
Total Reallocated Financing	<u>\$462,000</u>

- D) That the Regional Chair and Clerk be authorized to execute Regional Municipality of Durham Contract D2018-005.

(* before applicable taxes

CARRIED

F) Approval to Award Sole Source Engineering Services for Phase II of the Supervisory Control and Data Acquisition System and Process Optimization Data Integration Services for the York-Durham Duffin Creek Water Pollution Control Plant, in the City of Pickering (2019-W-6)

Report #2019-W-6 from S. Siopis, Commissioner of Works, was received.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,
(12) That we recommend to Council:

- A) That the Works Department be provided approval to award a sole source engineering agreement to Eramosa Engineering Inc. to provide Phase II of the Supervisory Control and Data Acquisition System and Process Optimization Data Integration Services for the York-Durham Duffin Creek Water Pollution Control Plant at an upset limit not to exceed \$125,000* to be contingent on approval of funding within the 2019 Duffin Creek Water Pollution Control Plant Budget; and
- B) That the Commissioner of Finance be authorized to execute the necessary engineering services agreement.
(*) before applicable taxes

CARRIED

G) Works Department – 2019 Water Supply and Sanitary Sewerage Business Plans and Budgets (2019-W-7)

Report #2019-W-7 from S. Siopis, Commissioner of Works, was received.

A revised page 1 of Report #2019-W-7 was provided as a handout.

Staff provided clarification and details regarding the total project cost of the new well and pumphouse with standby power for the Brock (Sunderland) System. Staff further clarified the following acronyms: S – Study, EA – Environmental Assessment, D – Design, and C – Construction.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,
(13) That we recommend to the Finance and Administration Committee for subsequent recommendation to Regional Council:

- A) That the Works Department's portion of the proposed 2019 Budget for the Water Supply System be approved, representing a net program cost of \$92.423 million inclusive of the proposed 2019 Water Supply Capital Program (gross proposed program totalling \$110.0 million); and
- B) That the Works Department's portion of the proposed 2019 Budget for the Sanitary Sewerage System be approved, representing a net program cost of \$75.963 million inclusive of the proposed 2019 Sanitary Sewerage Capital Program (gross proposed program totalling \$106.4 million).

CARRIED

This item will be considered at the Finance & Administration Committee meeting to be held on Tuesday, January 15, 2019.

H) New Community Safety Zone and Speed Limit Reduction – Simcoe Street
Between Niagara Drive/Selleck Lane and the Campus Ice Centre Access –
University of Ontario Institute of Technology and Durham College (2019-W-8)

Report #2019-W-8 from S. Siopis, Commissioner of Works, was received.

Staff responded to questions regarding implementation of automated speed enforcement in school and community safety zones; the importance of working with the various stakeholders in the community including the Durham Regional Police Service (DRPS); the amount of enforcement that could be provided in these zones; and the possibility of an overpass.

S. Siopis advised that staff would follow-up with DRPS regarding their involvement in the stakeholders group.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,
(14) That we recommend to Council:

- A) That Corporate Services – Legal Services be directed to prepare an amending by-law to amend By-Law 44-2006, generally in the form included as Attachment #2 to Report #2019-W-8, for presentation to Regional Council for passage; and
- B) That staff be authorized to take all steps required and necessary to give effect to the amendments contemplated to By-Law 44-2006 as indicated in the form included as Attachment #2 to Report #2019-W-8.

CARRIED

I) Purchase of Land Required for the Adelaide Avenue (Regional Road 58)
Extension Project, in the Municipality of Clarington (2019-W-9)

Report #2019-W-9 from S. Siopis, Commissioner of Works, was received.

A revised page 5 of Report #2019-W-9 was provided as a handout.

S. Siopis agreed to provide Councillor Joe Neal with the preliminary outline of the property/road alignment requirements for the Adelaide Avenue Extension Project, in the Municipality of Clarington.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,
(15) That we recommend to Council:

- A) That the following purchase agreement be approved:

Adelaide Avenue (Regional Road 58) Extension Project – Townline Road
(Regional Road 55) to Trulls Road, Municipality of Clarington

Estate of Barbara Anita Butters	18 Lawson Road Part of Lot 35, Concession 3 Municipality of Clarington Identified as PIN 26707-0034	\$476,500
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- B) That additional costs, estimated to be \$35,000, for the demolition of the house be approved, if necessary;
- C) That financing for the acquisition be provided from the funds allocated in the approved project budget; and
- D) That the Regional Chair and Clerk be authorized to execute all documents associated with the agreement.

CARRIED

8. Advisory Committee Resolutions

There were no advisory committee resolutions to be considered.

9. Confidential Matters

There were no confidential matters to be considered.

10. Other Business

10.1 Northwood Recycling and Energy Inc. Private Transfer Station

M. Januszkiewicz responded to questions regarding the Northwood Recycling and Energy Inc. Private Transfer Station and the policies that surround private transfer sites and the waste they accept from the Greater Toronto Area.

M. Januszkiewicz advised she would contact the City of Toronto to enquire whether they were bringing waste to this transfer station; and discuss with the City of Oshawa staff regarding resident complaints. She also advised that she would contact the environmental officers asking for advice and report back to the Committee.

10.2 Presentations on Works Initiatives

Regional Chair Henry requested that for future meetings, staff put together short presentations on a regular basis that highlight the various Works initiatives. Topics could include: submersibles in reservoirs; leachate collection at the Brock Landfill; and landfill mining.

10.3 Ontario Good Roads Association (OGRA) Conference

S. Siopis reminded the Committee of the OGRA Conference to be held February 24-27, 2019 and to contact Lori Rosamond for registration details.

10.4 Blue Salt Use for Winter Road Maintenance

In response to a question from Councillor John Neal, R. Jagannathan advised he would investigate and advise on any advantages of using blue salt on Regional Roads.

10.5 Paving Quality

In response to a question from Councillor Joe Neal, S. Siopis advised staff would follow-up with him regarding a paving quality issue near Ritson Road and Highway 2 in Oshawa.

11. Date of Next Meeting

The next regularly scheduled Works Committee meeting will be held on Wednesday, February 6, 2019 at 9:30 AM in the Lower Level Boardroom (LL-C), Regional Headquarters Building, 605 Rossland Road East, Whitby.

12. Adjournment

Moved by Councillor Regional Chair Henry, Seconded by Councillor Barton,
(16) That the meeting be adjourned.

CARRIED

The meeting adjourned at 12:19 PM

Respectfully submitted,

D. Mitchell, Chair

S. Penak, Committee Clerk



The Regional Municipality of Durham Information Report

From: Commissioner of Works
Report: [#2018-INFO-127](#)
Date: August 31, 2018

Subject:

Single Use Plastics

Recommendation:

Receive for information.

Report:

1. Purpose

1.1 This report provides an update on actions taken in Canada regarding single use plastics and implications for actions specific to the Regional Municipality of Durham (Region).

2. Background

2.1 At its meeting of May 9, 2018, Regional Council supported a motion for Regional staff to report back to the Committee of the Whole on the legal and practical implications of banning certain single-use plastics.

2.2 Staff has previously reported on other aspects of single use plastics. In 2013, Regional Council received Report #2013-WR-10 which concluded that, similar to the threatened legal action against the City of Toronto, the Region would likely face a legal challenge if it imposed non-voluntary measures on retailers to ban or charge for single use plastic bags. In 2007, Regional Council received Report #2007-WR-14 outlining the Region's participation with local retailers to launch a retailer take-back program for single use plastic bags. This program is still in place today. Participating retailers are listed on the Region's website.

3. Discussion

3.1 Single use plastics include plastic bags, plastic water bottles, cups and other drink containers, cup lids, drinking straws, stir sticks, cutlery, plates and fast food take-out containers.

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- 3.2 Even with advanced recycling systems, Canada only captures 11 percent of plastic for recycling leaving the rest for disposal. Improper disposal of plastics can result in contamination of waterways. Plastics can end up in the lakes and rivers from storm water runoff through rivers or streams, or litter blown directly into the waterways.
 - 3.3 International efforts to curb plastic waste include the Ocean Plastics Charter (Charter) that was launched at the G7 Leaders' Summit in Quebec in June and signed by five of the G7 countries.
 - 3.4 In support of the Charter, Canada has initiated consultation on a National Zero Plastics Waste Strategy. The federal government is seeking input from all Canadians regarding issues related to plastic waste and marine litter and how to achieve zero plastic waste. Through its involvement in the Regional Public Works Commissioners of Ontario Solid Waste Sub-Committee, the Region participated in the consultation in support of a national extended producer responsibility program for plastics. (See Attachment #1).
 - 3.5 Also, the Canadian Council of Ministers of the Environment (CCME) has launched a consultation on a Draft Framework for Zero Plastic Waste. The focus of the CCME consultation is developing a circular economy for plastics to create a demand for plastic packaging to be collected and reused. A CCME identified action area to support a circular economy is government initiatives to minimize single-use plastics.
 - 3.6 Both of these federal initiatives work toward a national strategy to address plastic use and capture for recycling and to minimize single use plastics.
 - 3.7 In Ontario, the 2016 Waste-Free Ontario Act was intended to move the province toward a full extended producer responsibility program for all paper and packaging. Future regulations under the Act will also drive circular economy actions for plastic packaging.
 - 3.8 The nation-wide and provincial initiatives to reduce plastic waste will be a more effective and well-received approach than individual city or municipal actions given the global scale of business in 2018. A national and provincial approach will also ensure accommodations are in place for people with disabilities who may rely on single use plastics such as drinking straws. The Region should support these initiatives.
 - 3.9 The Region will continue to promote recycling of plastics in the residential blue box program and plastic bag return to retail programs. The Region could also consider encouraging residents to seek out and use alternatives to plastics on a voluntary basis.

4. Conclusion

- 4.1 Reducing the prevalence of single use plastics in the environment has gained global attention in 2018 leading many national governments to initiate efforts to reduce the use of single use plastics and increase the capture of plastics for recycling. The Government of Canada has identified plastic waste as a priority issue and is actively consulting on actions.
- 4.2 Rather than take a piece-meal approach that could be challenged legally, the Region will continue to support federal and provincial efforts to develop policies and action plans to curb the use of single-use plastics in Canada and increase the capture and recycling of all plastics in Canada.

5. Attachments

Attachment #1: Letter dated June 19, 2018 providing input on a National Zero Plastic Waste Strategy for Canada

Respectfully submitted,

Original signed by:

S. Siopis, P.Eng.
Commissioner of Works



Sent via email: ec.plastiques-plastics.ec@canada.ca

June 19, 2018

Plastics Consultation
 Environment and Climate Change Canada
 351 St. Joseph Blvd., Place Vincent Massey, 9-064
 Gatineau, QC K1A 0H3

To Whom It May Concern,

Thank you for the opportunity to provide input on a National Zero Plastic Waste Strategy for Canada. We are pleased to support your efforts on this comprehensive federal-provincial-territorial approach to keep plastic within the economy and out of disposal and the environment. We applaud your leadership on this issue in Canada and on the international stage.

We are writing to you on behalf of the Municipal Resource Recovery & Research Collaborative (M3RC). M3RC is comprised of representatives from:

- Association of Municipalities of Ontario (AMO),
- City of Toronto,
- Regional Public Works Commissioners of Ontario (RPWCO), and
- Municipal Waste Association (MWA).

The purpose of M3RC is to develop and promote policies and programs on behalf of all municipalities in Ontario to support the transition to a circular economy. We understand the importance of this transition to protect our environment and support economic growth. M3RC does not usurp or replace the autonomy of individual municipalities, but provides advice and recommendations to staff and municipal councils for consideration and action.

Ontario's Municipal Waste Diversion Programs:

A common focus of all of our organizations is the establishment and effective operation of programs to reduce waste generation and ensure materials (products, packaging and organics) are recaptured at the end-of-life and reutilized. Municipal governments understand both the economic and environmental opportunities associated with driving Ontario towards a circular economy. One of the most significant challenges that we face today is the recycling of plastic and plastic composite products and packaging. We continue to see exponential growth in plastic materials, many of which do not have viable end markets and which often displace recyclable paper, metal and glass packaging that have long been the backbone of the internationally renowned Ontario municipal Blue Box recycling system.

Even with one of the best waste collection and management systems in the world, Canada only recycles 11%¹ of its plastic waste, leaving almost 90% sent to disposal and in some cases reaching our lakes, rivers and ocean basins.² This is a critical problem for Ontario and indeed for the country as a whole. Your government is uniquely positioned to set Canada on a path to sustainable use of plastics and to set an inspiring example for other countries which face the very same challenges.

A Solution is Available - Producer Responsibility:

The producers of plastics products and packaging (commonly the brand holder or the first importer into Canada) exert the greatest influence on product design and material selection. The critical mechanism for establishing a circular economy for plastics is regulating full producer responsibility for products and packaging distributed in Canada. International experience has demonstrated a clear linkage between making producers responsible for recovering and managing their used products and creating the necessary market conditions to reduce pollution of the environment and to return valuable resources to the economy.³ We are asking your support for wider implementation of producer policies and regulations to address growing public demand for more effective management of plastics and other product and packaging materials.

The Rationale for Action:

There are a number of key factors at play that illustrate the need for producers to take the lead responsibility to address pollution from plastics and other materials as we move to a circular economy:

1. More Complex Packaging Stream with Less Value

Plastics use has increased 620% over the last 40 years, resulting in 8.3 billion metric tonnes produced globally.⁴ This significant shift to plastics from other traditional packaging materials has meant substantial cost increases to Canadian municipalities who are forced to pay for the costs of properly managing these materials. The rapid growth of difficult to recycle plastic packaging specifically has led to a \$33 million cost premium to the Ontario Blue Box system compared to the traditional packaging materials and has reduced the value of other recycled commodities. While many new plastic packaging types such as laminates may have other appealing attributes, they

¹ Includes both residential and IC&I sources.

² Jambeck, Jenna. "Identifying Our Main Challenges." Lecture, Informing Canada's G7 Presidency – A Workshop on Global Marine Plastics Solutions, Ottawa, Ontario, Canada, April 25, 2018.

³ OECD, *Extended Producer Responsibility: Updated Guidance for Efficient Waste Management*, 2016. Available at <http://www.oecd.org/development/extended-producer-responsibility-9789264256385-en.htm>.

⁴ Jambeck, Jenna. "Identifying Our Main Challenges." Lecture, Informing Canada's G7 Presidency – A Workshop on Global Marine Plastics Solutions, Ottawa, Ontario, Canada, April 25, 2018.

do not have commercially viable end recycling markets and end up either as pollution in the environment or in over-burdened disposal sites.

2. More Waste Products and Packaging Leaking into Our Environment

Increasing amounts of plastic waste products and packaging are ending up in our oceans, lakes, rivers and other bodies of water and pose a dire threat to sensitive ecosystems, wildlife, communities, and individuals. This is a growing public health and safety issue as well as an environmental concern. It is of particular concern to municipal governments who are forced to deal with plastics at the “end of the pipe” as litter, in the waste stream, through recycling programs, or at wastewater treatment facilities. Recent studies estimate 8 million tonnes of plastics are ending up in our oceans annually.⁵ An additional 10,000 tonnes per year is estimated to be entering the Great Lakes.⁶ This has profound impacts on marine mammals, fish and birds. In addition, microplastics are increasingly being found in our drinking water with uncertain health impacts.

3. Weak End Markets

The problem with current commodity markets is it is often cheaper to purchase virgin materials than recycled materials. This is especially relevant for plastics which are the fastest growing component of the waste stream. The external costs associated with extracting new resources or properly managing these materials at end of life are currently not taken into account. As a result, a vicious cycle is created whereby more and more virgin materials are used to make products or packaging that end up in our environment and the economics to properly manage them are not there. Commodity markets for recycled materials are exceptionally weak currently. This is putting substantial financial pressure on municipal governments and increasing system costs while they have no ability to affect the necessary change.

4. A Level Playing Field Needed for Brand Holders

Some large brand holders are demonstrating leadership in promoting responsible stewardship of their products and packaging, however many others are not. This produces an unlevel playing field on which these companies compete. Some producers improperly label and advertise about the recyclability and compostability of their products, which undermines the legitimate efforts being made by other companies. These products add unnecessary costs to municipal recycling programs and can degrade the value of recovered materials that have been designed for

⁵ J. R. Jambeck et al., *Plastic waste inputs from land into the ocean* (Science, 13 February 2015).

⁶ M. J. Hoffman and E. Hittinger, *Inventory and transport of plastic debris in the Laurentian Great Lakes* (Marine Pollution Bulletin, Vol 115, 15 February 2017).

recycling. This practice also confuses consumers and erodes citizen confidence that the efforts that they have put into separating materials for recycling is helping to protect the environment. The Competition Bureau did release guidance on environmental claims on recycling.⁷ The guide notes that to claim recyclability there needs to be accessible collection systems and facilities to process the materials and a market to reutilize them. However, this guidance does not appear to be having its intended impact. Perhaps regulation should be considered to ensure compliance.

5. Lack of Disposal Capacity

The capacity to dispose of wastes in Ontario is shrinking. A 2010 Ontario Auditor General's report stated that one in five municipalities surveyed stated that they had insufficient disposal capacity to meet their community's needs. Similar concerns are also being raised in the United States.⁸ Ensuring more of these materials are reutilized will help to reduce the need for new disposal sites.

6. Municipalities cannot drive systematic change in product design

Municipalities do not have the ability to influence the design of products and packaging nor the material they are made of. These are decisions made solely by producers. Municipalities, however, are forced to plan, manage, operate and help fund the collection and management of the products and packaging that producers choose to sell, usually without any prior consultation or coordination.

National Zero Plastic Waste Strategy

The key components of a national zero plastic waste strategy developed in partnership with provinces, territories, municipal governments, and Indigenous peoples, would include the following:

1. A focus on making producers fiscally responsible to manage their products and packaging at their end-of-life. Jurisdictions around the world are introducing policies and regulations to require all producers to take full responsibility for the end-of-life management of the products and packaging they introduce into the market. Ontario, through the *Resource Recovery and Circular Economy Act, 2016* is a leading example of this trend. Many elements of this legislation are relevant to all regions of Canada.

⁷ Canadian Standards Association, *Environmental claims: A guide for industry and advertisers*, 2008. Available at [http://www.competitionbureau.gc.ca/eic/site/cb-bc.nsf/vwapj/guide-for-industry-and-advertisers-en.pdf/\\$FILE/guide-for-industry-and-advertisers-en.pdf](http://www.competitionbureau.gc.ca/eic/site/cb-bc.nsf/vwapj/guide-for-industry-and-advertisers-en.pdf/$FILE/guide-for-industry-and-advertisers-en.pdf).

⁸ Waste Dive, *US landfill capacity to drop 15% over next 5 years*, May 8, 2018. Available at <https://www.wastedive.com/news/us-landfill-capacity-decrease-SWEEP/523027/>.

2. Establishment of consistent national definitions (e.g. circular economy, resource recovery, recycling), performance standards, and measurement protocols including auditing to gauge progress towards zero plastic waste.
3. Targeted action on reducing single use plastic products and packaging (which could include bans, fees, or recycled content requirements).
4. Targeted action on eliminating the use of problematic types of plastics and plastic additives.
5. Set national mandatory targets that are at a minimum matching those that leading producers have already agreed to⁹: By 2025, Canada should transform the plastic packaging sector by meeting four targets:
 - a. Along with reduction efforts, all plastic packaging should be reusable or recyclable.
 - b. A 70% target for all plastic packaging to be effectively reused or recycled.
 - c. Take actions to eliminate problematic or unnecessary single-use packaging items through redesign, innovation or alternative (reuse) delivery models.
 - d. A target of 50% average recycled content across all plastic packaging.

Note it is not enough to confirm that there are municipal or industry collection systems where the product is sold in order to make a claim of "recyclable" or "compostable." There must also be facilities to process the collected materials and reuse them as an input to another product that can be marketed and used. However, these cannot be an expectation that municipal processing facilities will upgrade for new materials and packaging coming into the marketplace. This is in line with the Canadian Standards Association's Environmental claims: A guide for industry and advertisers, 2008.

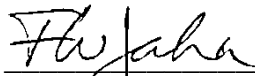
6. Support for recyclable commodity markets by incenting the use of secondary materials over virgin material through tax incentives and procurement practices.
7. Public procurement requirements for zero waste plastic products and leasing goods instead of purchases, to spur the transition to a circular economy.
8. Establish permanent, dedicated, and annual adequate funding for cleanup of products and packaging that do not have a responsible producer; community led projects to clean up plastics and debris on shores, banks, beaches and other aquatic peripheries that do not take away from the goals of producer responsibility; and education and outreach campaigns on the root causes and

⁹ Information on the Plastic Pact can be found at <http://www.wrap.org.uk/content/the-uk-plastics-pact>.

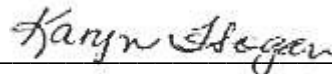
negative environmental effects of waste products and packaging in and around all bodies of water.

We look forward to continuing to work with the Federal Government on how to ensure that plastics remain in circulation within the economy and out of disposal sites and the environment. We would be happy to assist with discussions on development of a national producer responsibility framework. We encourage you to take bold actions to meet this challenge and to set an international example for other countries to follow.

Sincerely,



Fred W. Jahn, P.Eng
Chair, Regional Public Works
Commissioner of Ontario



Karyn Hogan, BA, MLIS, MA
Chair, Municipal Waste Association



Jim McKay
General Manager,
Solid Waste Management Services
City of Toronto



Monika Turner
Director of Policy
Association of Municipalities of Ontario

cc: Stephen Lucas, Deputy Minister, Environment and Climate Change Canada
Jim Whitestone, Assistant Deputy Minister, Ontario Ministry of Environment and Climate Change
Michael Goeres, Executive Director, Canadian Council of Ministers of the Environment
Matt Gemmel, Acting Manager, Federation of Canadian Municipalities



The Regional Municipality of Durham Report

To: Works Committee
From: Commissioner of Works
Report: [#2019-WR-1](#)
Date: January 9, 2019

Subject:

City of Vancouver Single-Use Items Reduction Strategy

Recommendations:

That the Works Committee recommends to Regional Council that this report be received for information.

Report:

1. Purpose

- 1.1 On September 12, 2018, Regional Municipality of Durham (Region) Council directed staff to prepare an information report on the City of Vancouver's (Vancouver) Strategy for Single-Use Items Reduction (Strategy).
- 1.2 This report provides Regional Council with information on the Strategy that was approved by Vancouver Council on June 5, 2018 and builds on the Region's previous [Information Report #2018-INFO-127 on Single Use Plastics](#) issued August 31, 2018.
- 1.3 Vancouver is responsible for delivering collection services to residents. Industrial, commercial, and institution (ICI) waste services are provided privately. As such, the Strategy focuses primarily on influencing the ICI community with a goal of preventing single-use item waste generation, as opposed to disposal restrictions.

2. Background

In May 2016, Vancouver Council directed staff to develop a strategy to achieve Vancouver's long-term goal of zero waste. Zero Waste 2040 Plan (Plan) was

created in response to that direction and serves as a long-term strategic waste management plan to guide future decisions relating to waste. Zero Waste 2040 Plan (Plan) establishes a vision, strategic framework, objectives, target, and priorities for action. The development of a Strategy was recommended as a priority action within the Plan. Even though single-use items are predominately made of plastic, this Strategy targets several single-use items not made of plastic. This Strategy was adopted and approved by Vancouver Council on June 5, 2018. This report provides an outline of Vancouver's strategy to reduce single-use plastics.

3. Phase one – Development of Strategy (2018)

Plastic and paper shopping bags

- 3.1 Vancouver will create behavioural change campaigns to promote and educate the public about shopping bag waste. The action plan focuses on the impact of shopping bag waste and is intended to apply equally to all plastic and paper shopping bags and to all businesses using bags.

Expanded polystyrene foam cups and take-out containers

- 3.2 The plan intends to ban the use of expanded polystyrene foam cups and take-out containers. Once details of the new by-laws have been finalized, Vancouver will work with businesses and other organizations to stop using polystyrene foam cups and containers. The campaign will:

- Develop language-appropriate educational resources about substitute materials for polystyrene cups and containers for business.
- Work with organizations, charitable organizations, and others to raise awareness of recyclable or compostable substitute materials.
- Execute a social media campaign to align with bylaw amendments to educate the public and businesses about the ban.

Disposable hot and cold drink cups

- 3.3 The Plan targets the impact from disposable hot and cold drink cups including polycoat paper cups (such as coffee cups) and plastic cups. The Strategy will:
- Investigate options to reduce public space collection costs and recover these costs from the businesses that generate disposable drink cup waste.
 - Promote and amplify education and behaviour change programs led by industry organizations, non-profits, and community groups.

- Investigate and report back on an increased business license fee for large businesses in which distribution of single-use items is pervasive.
- Execute a social media campaign to align with bylaw amendments to educate the public and businesses about the ban.

Take-out food containers

3.4 The action plan is aimed at reducing the disposal of quick-serve and take-out food containers used by restaurants. Vancouver's program will:

- Investigate opportunities to recover the costs of collecting take-out containers in public spaces from the businesses that generate this waste.
- Launch a Bring Your Own Container pilot in partnership with Vancouver Coastal Health.
- Investigate and report back on an increased business license fee for large businesses in which distribution of single-use items is pervasive.

4. Phase Two - Implementation of the Strategy (2019 to 2020)

Plastic and paper shopping bags

4.1 In January 2019, Vancouver plans to set annual shopping bag waste reduction targets with an accompanying reduction plan by-law. The following are planned components of the reduction strategy:

A) Businesses in the region will be given the following reduction choices:

- No plastic or paper shopping bags to be distributed.
- Plastic or paper shopping bags cannot be distributed for free.
- Other mechanisms that achieve a reduction target to be proposed and finalized through consultation.

B) Vancouver will execute a social media campaign to educate the public and businesses and develop material for businesses to help educate customers

C) The Strategy indorses the development by-law amendments in 2019 to 2020 to require compostable single-use items used in Vancouver be tested and approved by local composting facilities and paper-based shopping bags to contain a minimum 40 per cent post-consumer content.

Polystyrene foam cups and take-out containers

- 4.2 Subject to Regional Council enactment of the proposed by-law in 2019, businesses will be prohibited from serving prepared food in polystyrene foam cups and take-out containers effective June 1, 2019. The Strategy recommends the fostering of a collective purchasing program for small businesses to purchase recyclable and compostable containers at reduced costs.

Disposable hot and cold drink cups

- 4.3 Business license holders must have reduction plans for disposable cups and must report to Vancouver on the number of cups they distribute. These reduction plans must include one of the below options:

- No disposable cups to be distributed.
- Disposable cups cannot be distributed for free.
- Other mechanisms that achieve a reduction target to be proposed and finalized through consultation.

- 4.4 The Strategy endorses the development by-law amendments in 2019-2020 to require compostable single-use items used in Vancouver be tested and approved by local composting facilities and paper-based disposable cups to contain a minimum 40 per cent post-consumer content. The proposed by-law amendments would be accompanied by the following programs:

A) Education and outreach program:

- Execute a social media campaign to educate the public and businesses.
- Develop display material for businesses to help educate customers.

B) Infrastructure and programs:

- Explore the need and feasibility for requiring commercial dishwashers to support the use of reusable cups on site.
- Explore opportunities to support the development of sharing and exchange programs for a city-wide travel mug exchange program.

- 4.5 Vancouver will also evaluate the need for a by-law amendment to require single-use cups to be recyclable or compostable, with clear guidelines for acceptable materials in recycling and composting facilities. Finally, Vancouver will mandate in-store collection of recyclable and compostable cups.

Take-out food containers

- 4.6 The Strategy proposes by-law amendments requiring compostable single-use items used in Vancouver to be approved by local composting facilities and that paper-based disposable containers to contain a minimum 40 per cent post-consumer content. The Strategy for disposable containers also includes the following elements:
- Explore opportunities to develop a sharing exchange program for reusable items such as a city-wide reusable take-out container exchange program.
 - Explore the need and feasibility for requiring commercial dishwashers to support the use of reusable items on-site.
 - Engage food delivery and food vendors that offer delivery to identify opportunities to reduce single-use take-out containers and packaging.

Disposable straws and utensils

- 4.7 The Strategy aims to reduce the impact that plastic straws and utensils have on the back end of the recycling/composting recovery process.
- 4.8 In 2019, Vancouver will prohibit businesses from distributing single-use plastic straws (with exemptions for health care needs) effective June 1, 2019. Vancouver intends to introduce by-law amendments to prohibit business license holders from providing single-use utensils unless requested by customers and develop by-law amendments which will also require compostable utensils used in Vancouver to be approved by local composting facilities and that paper-based disposable containers to contain a minimum 40 per cent post-consumer content. This strategy will:
- Introduce a social media campaign to educate the public and businesses.
 - Develop display material for businesses to help educate customers.

5. Phase Three - Long Term Implementation and Program Optimization Strategy (2021 to 2025)

Plastic and paper shopping bags

- 5.1 Vancouver aims to accomplish the following long-term goals:
- Office buildings will be required to provide plastic bag recycling.
 - Vancouver will evaluate the amount of fees that business must charge for

plastic and paper bags, or introduce a ban.

- Vancouver will implement a full distribution ban on single-use plastic bags if annual reduction targets are not consistently met by 2021.

Disposable hot and cold drink cups

5.2 The Strategy includes the following actions:

- Require office buildings to provide a recycling program for disposable cups.
- Evaluate the need for the City to specify the amount of fees that business must charge on disposable cups to drive further reduction.
- Implement a full distribution ban on disposable cups if annual reduction targets are not consistently met by 2021.

Take-out food containers

5.3 The Strategy includes the following actions:

- Evaluate the need for by-law amendments to require take-out containers to be recyclable or compostable, with clear guidelines for acceptable materials that can be processed in local recycling and composting facilities.
- Require in-store collection and recycling/composting of take-out containers.
- Require office buildings to provide recycling/compost for take-out containers.
- Evaluate the need to introduce reduction plans for take-out containers once sufficient reusable alternatives and infrastructure have been established.

Disposable straws and utensils

5.4 Vancouver's Strategy recommends the following actions:

- Evaluate the need for by-law amendments to require single-use straws and utensils to be recyclable or compostable, with clear guidelines for acceptable materials that can be processed in local recycling and composting facilities.
- Require in-store collection of recyclable and compostable straws and utensils where distributed.
- Evaluate the need for Vancouver to set fees to be charged on single-use straws and utensils.

6. Conclusion

- 6.1 In May 2016, City of Vancouver Council directed staff to develop a comprehensive single-use item strategy. This Single-Use Item Reduction Strategy outlines progressive steps aimed at helping the City of Vancouver to reach its long-term waste management plan. The common component of the strategy outlined in this report are by-law amendments and comprehensive education programs.
- 6.2 The City of Vancouver's Single-Use Item Reduction Strategy was initiated as part of a long-term waste management plan and similar strategies for the Regional Municipality of Durham would be identified as part of the Regional Municipality of Durham's long-term waste management plan.
- 6.3 If Ontario municipalities are to embark on similar waste reduction strategies, existing education programs and by-law will also need to be evaluated and enhanced.
- 6.4 For additional information, please contact Craig Bartlett, Manager, Waste Operations, at 905-666-7711, extension 3561.

Respectfully submitted,

Original signed by:

Susan Siopis, P.Eng.
Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer



The Regional Municipality of Durham Report

To: Works Committee
From: Commissioner of Works
Report: [#2019-WR-2](#)
Date: February 6, 2019

Subject:

Award of Request for Proposal #633-2018 Energy from Waste Facility Professional Services for Operations and Maintenance Monitoring Services for the Durham York Energy Centre

Recommendations:

That the Works Committee recommends to Regional Council:

- A) That Request for Proposal #633-2018 be awarded to HDR Corporation to provide professional services for operations and maintenance monitoring services for the Durham York Energy Centre for a three year period beginning March 1, 2019 and ending December 31, 2021, at a total upset limit not to exceed \$768,436* with Durham's share (78.6%) to be funded from the Solid Waste Management - Durham York Energy Centre annual operating budget; and
 - B) That the Commissioner of Finance be authorized to execute the professional services agreement.
-

Report:

1. Purpose

- 1.1 The purpose of this report is to provide details and seek authorization to award Request for Proposal (RFP) #633-2018 to HDR Corporation to provide professional services for operations and maintenance monitoring services for the Durham York Energy Centre (DYEC). Dollar amounts followed by an asterisk (*) include disbursements and are before applicable taxes.

2. Background

- 2.1 The DYEC produces energy through the processing of 140,000 tonnes per year of residential garbage that remains after maximizing waste diversion programs in the Regional Municipality of Durham (Durham) and the Regional Municipality of York (York). Pursuant to the Project Agreement (PA), the Regional Municipalities of Durham and York (Regions) have established several processes and reviews which confirm that the DYEC is being operated and maintained in accordance with the contract and accepted energy from waste and power generation facility standards.
- 2.2 The Regions are assisted in efforts to support the requirements in the PA and to ensure facility contractor operations and maintenance levels are held to regulatory requirements, industry standards and contractual obligations by specialized professional services.

3. Assignment for Professional Services

- 3.1 RFP #633-2018 to provide professional services for the operations and maintenance monitoring services for the DYEC was issued and advertised publicly on November 15, 2018 through Durham's website. The RFP included, but was not limited to, the scope of work, description of the services to be provided, submission instructions and evaluation criteria that would be applied during the evaluation of proposals submitted.
- 3.2 The RFP closed on December 13, 2018. The RFP resulted in the submission of two compliant proposals from the following firms:
- GHD Limited
 - HDR Corporation
- 3.3 Evaluations of the proposal information received were carried out by the evaluation committee made up of Durham's Works Department staff. Durham's Purchasing Section of the Finance Department oversaw the evaluation process.
- 3.4 The proposals were evaluated against the following evaluation criteria:
- Understanding of Project Requirements (5%);
 - Company Background, Qualifications and Experience (30%);
 - Performance Monitoring (25%); and
 - Financing Pricing (40%).

- 3.5 Based on an overall technical and financial evaluation of the proposals by the evaluation committee, it is recommended that the highest scoring proponent, HDR Corporation, be awarded the professional services for the operations and maintenance monitoring services for the DYEC over a three year period, at an upset limit not to exceed \$768,436*.

4. Financial Implications

- 4.1 Section 9.4.1 of Durham's Purchasing By-Law 68-2000 (Amended) requires where the project or annual value of a consulting or professional service assignment is expected to be more than \$60,000, the approval of Regional Council is required for the award of the assignment when proposals are obtained.
- 4.2 The existing professional services contract began in September 2016 and expires in February 2019. The current requested term amount of \$768,432 from March 1, 2019 to December 31, 2021 will continue to be cost shared between the Regions as follows:

Year	Durham (78.6%) \$	York (21.4%) \$	Total (100%) \$
2019	195,617	53,259	248,876
2020	201,170	54,771	255,941
2021	207,205	56,414	263,619
Total	603,992	164,444	768,436

- 4.3 Funding for Durham' portion of the professional services for the operations and maintenance monitoring services at the DYEC over a three year period, with a total upset limit of \$768,436*, will be provided within the Solid Waste Management - Durham York Energy Centre annual operating budget.

5. Conclusion

- 5.1 It is recommended that Request for Proposal #633-2018 be awarded to HDR Corporation to provide professional services for the operations and maintenance monitoring services at the Durham York Energy Centre over a three-year period, at an upset limit not to exceed \$768,436*.

- 5.2 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the financial recommendations.
- 5.3 For additional information, please contact Gioseph Anello, Manager, Waste Planning and Technical Services, at 905-668-7711, extension 3445.

Respectfully submitted,

Original signed by:

Susan Siopis, P.Eng.
Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer



The Regional Municipality of Durham Report

To: The Works Committee
From: Commissioner of Works
Report: [#2019-WR-3](#)
Date: February 6, 2019

Subject:

Energy from Waste-Waste Management Advisory Committee (Host Community Agreement Committee) Membership Appointments

Recommendations:

That the Works Committee recommends to Regional Council:

- A) That the five applicants selected by members of the Works Committee be appointed for membership on the Energy from Waste-Waste Management Advisory Committee for a two-year term (2019 to 2020); and
 - B) That a copy of this report be forwarded to the Municipality of Clarington for information.
-

Report:

1. Purpose

- 1.1 The purpose of this report is to facilitate the appointment of individuals to serve as members on the Energy from Waste-Waste Management Advisory Committee (EFW-WMAC) (Host Community Agreement Committee) for a two-year term (2019 to 2020 – Term Four).

2. Background

- 2.1 The Host Community Agreement (HCA) between the Regional Municipality of Durham (Region) and Municipality of Clarington (Clarington) required the establishment of a public advisory committee.

2.2 The Terms of Reference (ToR) for the EFW-WMAC were developed in a collaborative effort with Clarington.

3. Energy from Waste-Waste Management Advisory Committee

3.1 The purpose of the EFW-WMAC is to provide a forum for public and other stakeholders to monitor, review, learn and liaise with the Region about the Region's integrated waste management system.

3.2 The EFW-WMAC will meet on a quarterly basis and meetings will be open to the public.

4. Soliciting, Screening and Evaluation of Applicants

Advertising Campaign

4.1 The Region initiated a media advertising campaign using print and electronic media to ensure that Regional residents were aware of the opportunity to apply for membership to the next term of the EFW-WMAC (2019 to 2020 – Term Four). The submission deadline to submit applications was January 11, 2019.

Screening and Evaluation

4.2 The advertisement for membership stipulated that persons interested in membership on this committee must submit their resume and covering letter detailing their interest in this committee, previous committee experience, other relevant experience including details on their knowledge of waste management practices and energy-from-waste processes, and why they should be considered for this membership role.

4.3 The Region received eight applications from residents living in Durham Region.

4.4 The evaluation criteria included:

- Representation which allows for a balance of members from all area municipalities considering past membership;
- Previous committee experience;
- Other experience or qualifications that may be applicable such as environmental or waste management experience; and

- Designation by the proponent to represent a broad range of interests.

4.5 Applicants with a diverse set of skills and broad range of interests were given priority during the selection of recommended members. Broad municipal representation was also given priority during the selection process to ensure that all area municipalities have a rotating opportunity to participate term over term.

5. Staff Recommendations

5.1 In accordance with the EFW-WMAC's ToR, Works Committee is requested to consider recommending to Regional Council five applicants for appointment to the next term (2019 to 2020 – Term Four) of the EFW-WMAC. Clarington Council has approved three of their four members to date (Attachment #1), and has extended their application deadline until February 1, 2019, to fill the remaining vacancy. Once the additional Clarington member has been approved, nine Regional residents will form the EFW-WMAC.

5.2 Regional staff has selected five applicants who would best complement the proposed membership, as detailed in Attachment #2, for consideration in the selection of the five EFW-WMAC members to serve as the Region's Council appointees. The selected applicants include:

- George Rocoski
- Anna-Marie Burrows
- William Baszyk
- Theresa Farrell
- Clayton McLean

6. Conclusions

6.1 It is recommended that the five applicants outlined in Attachment #2 are selected by members of the Works Committee for appointment to the Energy from Waste-Waste Management Advisory Committee.

7. Attachments

Attachment #1: Municipality of Clarington Resolution #JC-043-19 dated January 14, 2019, for the appointment of EFW-WMAC members to the next term (2019 to 2020 – Term Four).

Attachment #2: Regional Municipality of Durham Table of Recommended Applicants to the 2019 to 2020 Term Four Energy from Waste-Waste Management Advisory Committee

Respectfully submitted,

Original signed by:

Susan Siopis, P.Eng.
Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer

Clarington

If this information is required in an alternate format, please contact the Accessibility Coordinator at 905-623-3379 ext. 2131

January 15, 2019

Melodee Smart, Administrative Assistant
Region of Durham
Via E-mail: melodee.smart@durham.ca

Dear Ms. Smart:

Re: Appointment to Energy From Waste – Waste Management Advisory Committee
File Number: AA.18.03. Energy From Waste – Waste Management Advisory Committee

Please be advised at the January 14, 2019 Council Meeting, the following Resolution #JC-043-19 was approved:

That the following individuals be appointed to the Energy from Waste – Waste Management Advisory Committee of Clarington for a term ending December 31, 2020 or until a successor is appointed:

Wendy Bracken
Kerry Meydam
Harri Sukhu

Accordingly, please find enclosed the applications for the appointed citizens.

Yours truly,



June Gallagher, B.A.
Deputy Clerk

JG/lp

Encl.

c. S. Gray, Committee Coordinator

CORPORATION OF THE MUNICIPALITY OF CLARINGTON

40 TEMPERANCE STREET, BOWMANVILLE, ONTARIO L1C 3A6 905-623-3379 www.clarington.net

**Recommended Applicants to the 2019 to 2020 Term Four of the
Energy from Waste-Waste Management Advisory Committee (EFW-WMAC)**

Name	Municipality	Committee Experience	Practical Experience	Other Information
George Rocoski	City of Oshawa	Yes	Yes	M.Eng. (Master of Engineering – Chemical) B.Sc.Eng. (Bachelor of Science – Engineering) 33 years with the Ministry of the Environment (retired) Extensive experience and knowledge of waste management in the Greater Toronto Area. Directly involved with negotiating and implementing the Michigan boarder closure for the shipment of municipal waste.
Anna-Marie Burrows	Town of Ajax	Yes	Yes	B.Sc. (Agr.) (Bachelor of Science – Agriculture) Certified Operator of Compost Facility Manager of Horticulture and Grounds, Toronto Zoo Involved in bio-digester for production of energy. Involved in waste management conservation programming.
William Baszyk	Township of Brock	Yes	Yes	Ph.D. (Doctor of Philosophy) in Business Administration MBA/FBA (Master of Business Administration/Faculty of Business Administration) M.Sc. (Master of Science) in Real Estate Professor, Faculty of Business, George Brown College Biochemist/Chemical Technologist Special interest area is the conversion of animal waste into energy via bio-digestion.

Recommended Applicants to the 2019 to 2020 Term Four of the
Energy from Waste-Waste Management Advisory Committee (EFW-WMAC)

Name	Municipality	Committee Experience	Practical Experience	Other Information
Theresa Farrell	Township of Brock	No	Yes	English and Religion, University of Toronto Marketing Diploma, Advertising and Marketing Education assistant (past) Financial and Administrative Manager Pnewko Brothers Ltd (plastics recycling) – attends industry related events/seminars/webinars.
Clayton McLean	Town of Ajax	No	Yes	B.Eng. (Aerospace Engineering Degree) MAsc. (Master of Applied Science) Graduate Diploma in Nuclear Design P.Eng. (Professional Engineer) Ran for local councillor for Ward 3, Town of Ajax. Special interest in examining ways to mitigate toxic algae from the Town of Ajax lake front.



The Regional Municipality of Durham Report

To: The Works Committee
From: Commissioner of Works
Report: [#2019-W-10](#)
Date: February 6, 2019

Subject:

Site Plan Agreement for the Regional Municipality of Durham Municipal Hazardous and Special Waste Facility, in the Municipality of Clarington

Recommendations:

That the Works Committee recommends to Regional Council that the Regional Chair and Clerk be authorized to execute all documents associated with the site plan agreement and building permit process for the reconfiguration and renovation of the facility located at 1998 Regional Road 57, in the Municipality of Clarington to accommodate a new Municipal Hazardous and Special Waste facility.

Report:

1. Purpose

1.1 This report seeks authorization for Regional Municipality of Durham (Region) to enter into a site plan agreement with the Municipality of Clarington (Clarington) to proceed with construction of a new Municipal Hazardous and Special Waste (MHSW) facility located at 1998 Regional Road 57, in Clarington.

2. Background

2.1 Section 6.2 of the Host Community Agreement between the Region and Clarington for the energy from waste facility requires the Region to establish a MHSW facility to serve the residents of Clarington.

2.2 The former Durham Region Police Service building located at 1998 Regional Road 57 in Bowmanville was selected as the preferred site for this facility. The Region intends to renovate the existing building and repurpose the site for use as

a MHSW collection depot on the lower level and administrative facilities including blue box and green bin sales on the upper level.

3. Discussion

- 3.1 Currently the project is in the tendering stage with contractor award expected in the winter of 2019. Construction is expected to commence in late winter of 2019.
- 3.2 The contract drawings and specifications are now complete and have been submitted to Clarington for the issuance of a building permit which must be obtained prior to the commencement of construction of the facility. Clarington has requested the Region enter into a site plan agreement as a condition of issuing a building permit.
- 3.3 Clarington provided the Region with formal approval to complete all civil works in advance of the site plan approval subject to some minor conditions to which the Region agreed.

4. Financial Implications

- 4.1 Financing for the permit fees for the site plan application and the building permit will be provided from within the approved project budget for the Clarington MSHW facility (G1602).

5. Conclusion

- 5.1 In order for the Municipality of Clarington to issue a building permit for construction of the Regional Municipality of Durham's Municipal Hazardous and Special Waste Facility located at 1998 Regional Road 57, in the Municipality of Clarington, the Regional Municipality of Durham must enter into a site plan agreement with the Municipality of Clarington.

5.2 For additional information, please contact David Nagy, Manager, Facilities Design, Construction and Asset Management at 905-668-7711, extension 2202.

Respectfully submitted,

Original signed by: _____

Susan Siopis, P.Eng.
Commissioner of Works

Recommended for Presentation to Committee

Original signed by: _____

Elaine C. Baxter-Trahair
Chief Administrative Officer



The Regional Municipality of Durham Report

To: Works Committee
From: Commissioner of Works
Report: [#2019-W-11](#)
Date: February 6, 2019

Subject:

Report on Private Wells on Fielding Court in the Town of Ajax

Recommendation:

That the Works Committee recommends to Regional Council that this report be received for information.

Report:

1. Purpose

1.1 The purpose of this report is to provide an update on community concerns regarding water quantity and quality in private wells for homes on Fielding Court, in the Town of Ajax (Ajax).

2. Background

2.1 Fielding Court is located in the northern portion of Ajax, on the east side of Westney Road (Attachment #1). The subdivision was approved based on private wells and private waste disposal systems in November 1985. The subdivision contains 15 rural residential dwellings that were constructed in the late 1980's. Each dwelling has since been serviced with a private water supply (well or holding tank) and a private sewage disposal system.

2.2 The subdivision is located approximately 1 km north of the Ajax Urban Area as designated in the Durham Regional Official Plan.

- 2.3 The properties on Fielding Court are identified as a Country Residential Subdivision within the Durham Regional Official Plan. Policy 9B.2.18 of the Durham Regional Official Plan indicates that “country residential subdivisions shall be individually serviced with drilled wells and private sewage systems which comply with the standards of the Region and the Ministry of Environment and Climate Change.”
- 2.4 The subdivision is also within the Provincial Greenbelt Plan Area. The Greenbelt Plan requires that for properties within the Greenbelt seeking to be connected to municipal services, that such connections would only be permitted if a health issue exists.
- 2.5 Local residents have raised water quantity and quality concerns with their private wells dating back to 2001. The main concern at that time focused on the adequacy of the quantity of water in local aquifers to support private wells. In addition, well water sampling results on certain wells showed that there were parameters that exceeded Ontario Drinking Water Quality Standards (ODWQS) at times.
- 2.6 On December 9, 2003, Regional staff presented Works Committee Report #2003-W-165 (Attachment #2) regarding resident concerns about private wells in this area following a petition for water supply.
- 2.7 On December 16, 2003 the province introduced Bill 27 establishing a Greenbelt Study Area across the Greater Golden Horseshoe. The same day, a Minister’s Zoning Order was passed that placed a one-year moratorium on the construction of new buildings within the Greenbelt Study Area. On December 16, 2004, the provincial Greenbelt Plan came into effect.

3. Residents’ Correspondence of August 26, 2018

- 3.1 The most recent correspondence from the residents indicates that the quantity and quality of water in the private wells for the residences on Fielding Court has not improved since the information report was brought to Works Committee in 2003 (Attachment #3).
- 3.2 Regional staff sent a questionnaire to the residents on Fielding Court in December 2018, to obtain additional information regarding their private water supply systems. Most residents indicated that they are unhappy with both the quantity and quality of water available from local aquifers. Most residents also indicated that they are required to supplement their water supply with water that is trucked in.

4. Municipal Servicing

- 4.1 The Fielding Court subdivision is situated outside of the Ajax Urban Area and is within the Greenbelt. Both the Provincial Greenbelt Plan and the Regional Official Plan restrict the extension of municipal services outside of the Urban Area Boundary, unless a health issue exists.
- 4.2 While the quality of the water may be improved by various treatment technologies to meet the criteria set out in the ODWQS, the residents have advised that there is not enough water produced in local wells to sustain the needs of the residents on Fielding Court even if an advanced treatment unit is used.
- 4.3 In order to provide municipal water supply to the residents on Fielding Court, watermain construction would be required from the trunk feedermain on Westney Road that services the Westney Road Zone 2 Reservoir, located on the west side of Westney Road north of Fielding Court. Due to the elevation of the area and the operating water elevation in the Westney Road Zone 2 reservoir, the minimum acceptable water pressure could be provided to these residences without the need for a pumping station. Residents may require an individual booster pump in order to meet the water pressure needs of each property.
- 4.4 The preliminary conceptual cost estimate for a watermain extension to service the properties on Fielding Court is in the order of \$600,000, subject to detailed engineering for site specific conditions.

5. Conclusion

- 5.1 Residents living on Fielding Court continue to express concerns related to private well water quantity and quality. The subdivision is outside of the Ajax Urban Area, and within the Provincial Greenbelt Plan Area. Municipal water supply cannot be extended to this area unless a health issue exists.
- 5.2 This report has been reviewed by the Health and Planning & Economic Development Departments. The Medical Officer of Health and the Commissioner of Planning & Economic Development concur with the information within this report.

5.3 For additional information, please contact John Presta, Director of Environmental Services at 905-668-7711, extension 3520.

6. Attachments

Attachment #1: Site map of properties on Fielding Court

Attachment #2: Works Committee Information Report #2003-W-165

Attachment #3: Correspondence, dated August 26, 2018, regarding Well Water Conditions

Respectfully submitted,

Original signed by:

Susan Siopis, P.Eng.
Commissioner of Works

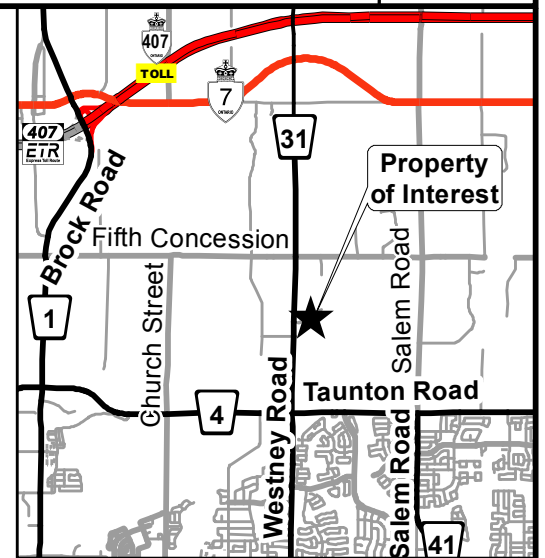
Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer



Attachment # 1: Fielding Court Ajax



This map has been produced from a variety of sources. The Region of Durham does not make any representations concerning the accuracy, likely results, or reliability of the use of the materials. The Region disclaims all representations and warranties. © MPAC and all its suppliers. All rights reserved. Not a Plan of Survey.



Regional Municipality of Durham
To: The Works Committee
From: Commissioner of Works
Report: 2003-W-165
Date: December 9, 2003

SUBJECT:

Water Supply in North Ajax – Petition from Residents on Fielding Court and Greenwood Road - Update

RECOMMENDATIONS:

- a) THAT this report be received for information; and
 - b) THAT a copy of this report be sent to the following: Mr. Colin Charles, Mr. B. Roy Choudhury, the Town of Ajax and the Ministry of the Environment.
-

REPORT:

- Attachment No. 1: Works Committee Report No. 2002-W-70**
- Attachment No. 2: Works Correspondence WC-72-2003 - Petition from Residents on Fielding Court and Greenwood Road**
- Attachment No. 3: Plan for Local Water Supply System**

1. BACKGROUND

On August 28, 2002, Report No. 2002-W-70 (Attachment No. 1) was presented to Works Committee regarding water supply servicing in North Ajax. Residents on Fielding Court and Greenwood Road had expressed an interest in obtaining municipal water supply from the Ajax Zone 2 water supply system. The report concluded that due to the high capital costs and operational concerns, the creation of a small local water supply system to service this area was not recommended.

On October 21, 2003, Regional staff met with the residents on Fielding Court who presented a second petition with respect to obtaining municipal water supply. Regional staff were asked to review options for providing municipal water supply on Fielding Court. The residents identified in Attachment No. 2 expressed their concerns with respect to existing water quality and quantity problems related to their private wells.

2. SERVICING IMPLICATIONS

In reviewing the technical feasibility of providing municipal water to the residents on Fielding Court, staff wanted to ensure that adequate water pressure and fire flow could be provided in accordance with Regional standards. In order to service Fielding Court, water must be obtained from the proposed Ajax Zone 2 reservoir and associated feedermain on Westney Road.

A revision in the Top Water Level (TWL) for the Ajax Zone 2 reservoir during detailed design has revised the topographic servicing elevation for the lands within the Ajax Zone 2 water pressure district. The design of the Ajax Zone 2 reservoir raised the storage facility by 5 m in order to reduce project costs for earthworks. The revision of the TWL will allow lands with a topographic elevation of approximately 138 m to be serviced by the Ajax Zone 2 water pressure district. Lands on Fielding Court are at a topographic elevation of 138 m. It is important to note that if the properties on Fielding Court were serviced by the Ajax Zone 2 water supply system, they would receive the minimum design water pressure of 40 psi (275 Kpa). Other residents which may potentially be serviced by the Ajax Zone 2 water pressure district include the east/west portion of Greenwood Road, west of Westney Road (Attachment No. 3). Lands which are located above the 138 m topographic elevation on Greenwood Road, Westney Road, McNamara Court and the 5th Concession would require a water pumping station.

The preliminary estimated cost to construct water supply in the above noted area is:

<u>Street</u>	<u>Cost</u>
Fielding Court	\$290,000
Greenwood Road (East/West Portion)	<u>260,000</u>
Total	<u>\$550,000</u>

3. APPROVALS

The properties in question are outside the urban area boundary of the Regional and Local Official Plans. In order to obtain municipal water supply servicing, a Regional Official Plan Amendment (OPA) would be required and the residents would be financially responsible for construction of the entire local water distribution system. It is important in consideration of a Regional OPA to recognize that the number of other properties that may wish to obtain water supply servicing from a local water supply system may be extensive. This may result in additional costs and operating considerations in order to properly size the required infrastructure.

4. **SUMMARY**

The potential water supply servicing from the Ajax Zone 2 water pressure district for Fielding Court and a portion of Greenwood Road is feasible, however, it is subject to the approval of a Regional Official Plan Amendment (OPA) and financial plan acceptable to the Region and the affected residents. This process would be initiated by the residents.

Clifford Curtis, P. Eng., MBA
Commissioner of Works

EPS1/ps



Regional Municipality of Durham

To: The Works Committee

From: Commissioner of Works

Report: 2002-W-70

Date: August 28, 2002

SUBJECT:

Water Supply in North Ajax - Petition from Residents on Fielding Court and Greenwood Road

RECOMMENDATIONS:

- a) THAT this report be received for information; and
 - b) THAT a copy of this report be sent to the following: Mrs. S.M. Herring, Mr. Colin Charles, Mr. Edward Fromm, the Town of Ajax and the Ministry of Environment.
-

REPORT:

Attachment No. 1 - Correspondence WC-21-2002
Correspondence WC-31-2002
Correspondence WC-32-2002

Attachment No. 2 - Ajax Zone 2 Reservoir Location Plan

Attachment No. 3 - Conceptual Servicing Plan for Local Water Supply System

1. BACKGROUND

In November 2000, the Region of Durham initiated a Class Environmental Assessment (EA) in order to plan for a water storage facility to service the Ajax Zone 2 water pressure district. The Ajax Zone 2 water pressure district generally consists of lands within the urban area boundary between Audley Road to the east, Brock Road to the west, Rossland Road to the south and Taunton Road to the north. During the public consultation process for the Class Environmental Assessment, a number of residents in the vicinity of the preferred location of the proposed water storage facility expressed an interest in obtaining municipal water supply from the Ajax Zone 2 water supply system.

Generally, these residents occupy country residential developments along McNamara and Fielding Courts and receive water supply from private wells and/or water holding tank systems. Based on the Class EA, the preferred inground water storage reservoir site is 200m south of Fifth Concession Road and along the west side of Westney Road (refer to Attachment No. 2).

Separate meetings were held with these residents in order to explain the Class EA Process and Regional Policy on Services. The residents expressed concern with respect to water quality and quantity issues. Following the meetings, the Region of Durham conducted a groundwater impact assessment to determine if the proposed construction of the Ajax Zone 2 reservoir would impact the surrounding wells. The findings of the groundwater impact assessment concluded that there would not likely be impacts on private water supplies from the construction. Subsequently, the residents were provided with individual water quality results from the sampling program, and a copy of the Groundwater Impact Assessment Report was provided to the residents' representatives.

On March 27, 2002, the Region of Durham filed the Environmental Screening Report for the Ajax Zone 2 water storage facility for the mandatory 30-day public review period. There were no requests to the Minister of the Environment to issue a Part 2 order (formerly a "bump-up" request) for the project; however, based on the correspondence received by the Region, the surrounding residents near the proposed reservoir site are petitioning to be serviced by the proposed Zone 2 water supply system.

2. GENERAL LOCATION AND SERVICING

The residents who have petitioned for water supply from the proposed Ajax Zone 2 water supply system reside on Fielding Court and Greenwood Road. This area is outside the urban area boundary and municipal water supply is not planned to be extended to this area. The proposed Ajax Zone 2 reservoir is to be located on the west side of Westney Road, approximately 200m south of Fifth Concession Road (refer to Attachment No. 2). The location of the reservoir has been chosen in order to achieve a top water level elevation of 165m to service the Zone 2 water pressure district within the urban area of the Regional and local Official Plans.

2.1 Servicing Implications

The Ajax Zone 2 water pressure district can service lands with a topographic elevation not exceeding approximately 130m. Lands above the 130m elevation cannot be serviced by the proposed Zone 2 water pressure system with the Region's minimum design water pressure. In order to service the properties on Fielding Court and Greenwood Road, a pumping station would be required to provide adequate water pressure and fire flow. A local water distribution system would be required as shown conceptually on Attachment No. 3. The Region's practice and policy does not allow individual service connections from large feeder mains in order to maintain the integrity of the major components of a water supply system.

The preliminary estimated cost to construct a communal water supply system and water pumping station is approximately \$1.6 million in order to service Fielding Court, Greenwood Road up to Fifth Concession Road and a portion of Westney Road. The creation of two single feed, dead end water mains may result in operational difficulties in maintaining chlorine residuals within the local system.

The properties in question are outside the urban area boundary of the Regional and local Official Plans. In order to obtain municipal water supply servicing, a Regional Official Plan Amendment would be required and the residents would be financially responsible for construction of the entire local water distribution system. It is important in consideration of a Regional Official Plan amendment as noted above, to note that the number of other properties that may wish to obtain water supply servicing from a local water supply system which may result in additional costs and operating considerations in order to properly size infrastructure.

2.2 Subdivision Approval

The residents on Fielding Court have also expressed a concern regarding the approval process for their country residential subdivision in 1986 and are requesting free water supply service. It is noted that, at the time when the Fielding Court subdivision was approved, the Ministry of the Environment was responsible for the review and approval of private water supply systems.

With respect to the approval of the existing estate lot subdivision for Fielding Court, the responsibility of identifying and reviewing the target aquifer for private water supply was with the Ministry of the Environment in 1986. The Region of Durham's Drilled Well Policy came into effect in 1990.

3. **SUMMARY**

Based on the high capital costs and operational concerns, Regional staff do not recommend proceeding with creating a local water supply system to service this area.

J.R. McCorkell, P. Eng.
Commissioner of Works

EPS1/ra

Attachment #3 to Report #2019-W-11

Attachments to this August 26, 2018 correspondence regarding Water on Fielding Court are available upon request.

August 26, 2018

To: Shaun Collier
Regional Councillor Wards 1 & 2
Town of Ajax
65 Harwood Avenue South
Ajax ON L1S 2H9
shaun.collier@ajax.ca

From: Joseph & Barbara Ruddy
11 Fielding Court
Ajax ON L1T 4W5
905-686-2193
barbararuddy@gmail.com

Re: Water on Fielding Court

Further to our recent discussions, please see attached and below, the information we have respecting our efforts to obtain municipal water services on Fielding Court. These communications date from June 2001 to December 2004.

1. Minutes of a meeting held June 25, 2001 at the Durham Region Works Department Main Boardroom respecting the Regional Ajax Zone 2 Water Storage Facility and a Class Environmental Assessment. Attendees included residents of Fielding Court, John Presta, P.Eng., representing Durham Region and Eric Tuson, P.Eng., representing engineering consulting firm, KMK Consultants Limited.
2. Letter dated October 25, 2001 from Beata Golas, Hydrogeologist at Durham Region re water quality at 11 Fielding Court. The letter states, "*The results of the water sample indicate that the water is **unsafe** for drinking unless boiled or treated.*"
3. Letter dated April 24, 2002 from Colin Charles, resident at 5 Fielding Court, addressed to the Minister of the Environment and copied to the Regional Clerk and John Presta, P.Eng. The letter relates to the installation of the Ajax Zone 2 Water Storage Facility and the circumstances of the approval of the subdivision in 1986.
4. Letter dated June 11, 2002 from John Presta, P.Eng., Durham Region, attaching Commissioner's Report No. 2002-W-70 regarding water supply in north Ajax. The report's summary states, "*Based on the high capital costs and operational concerns, Regional staff do not recommend proceeding with creating a local water supply system to service this area.*"
5. Report dated July 9, 2002 from Brian Ruddy, P.Eng., and former Commissioner of Works, City of North York. This report was provided after Mr. Ruddy's meeting with John Presta, P.Eng. In it, among other things, he states, "*The approvals necessary to have municipal water provided along Fielding Court appears to be a difficult undertaking and if successful, may be more because of political decisions than technical recommendations.*"

6. Email dated December 8, 2003 from Colin Charles to Fielding Court residents. The email advises that Durham Region, as a cost-saving measure, would be raising the level of the reservoir by approximately five meters which would put Fielding Court sufficiently below the reservoir level to enable adequate water pressure on the street without the need for a pumping station.
7. Letter dated February 12, 2004 from Colin Charles to Durham Region Planning Dept. requesting changes to the Official Plan regarding municipal water on the street.
8. Email dated December 7, 2004 from Colin Charles providing an update of our application to Durham Region. In it he states, *"Now that they have deliberated, I am advised that, in their infinite wisdom they have decided that they had too much material to review and have, in effect, delegated such issues to another committee."*

In conclusion, after approximately 3-1/2 years of fruitless effort, most residents of the street just gave up on the hope that this would come to a favourable end. In retrospect, our efforts would have been better served if we had focussed on the engineering aspects instead of focussing on receiving municipal water at no cost. At this point in time, we understand that we must bear our share the cost for the servicing of the street.



The Regional Municipality of Durham Report

To: Works Committee
From: Commissioner of Works
Report: [#2019-W-12](#)
Date: February 6, 2019

Subject:

Bulk Water Filling Stations and Hydrant Permits – Status Update

Recommendation:

That the Works Committee recommends to Regional Council that the Regional Municipality of Durham continue to implement the renewal of bulk water filling stations and reduce hydrant permits as new bulk water filling station capacity is operational.

Report:

1. Purpose

1.1 The purpose of this report is to provide background information and recommendations related to the Regional Municipality of Durham (Region) bulk water filling station and hydrant permit programs.

2. Background

2.1 The Region currently has five bulk water filling stations (BWFS) located at the Harwood Pumping Station (Town of Ajax), the Whitby Water Supply Plant (Town of Whitby), the Bowmanville Water Supply Plant (Municipality of Clarington), the Port Perry Municipal Well Station (Township of Scugog), and the Beaverton Facility (Township of Brock).

2.2 The Region also has a hydrant permitting program allowing only licensed water haulers access to water from a hydrant. The hydrant permitting program and Water By-law #89-2003 detail how companies can legally take water.

- 2.3 At the Regional Council meeting on December 19, 2018, the following Notice of Motion was referred to staff for a report:

“Be it resolved that the Region’s practice of permitting water companies to have access to the Region’s un-metered hydrants, or other water facilities, whereby the water companies self-invoice for bulk water be discontinued effective April 30, 2019.”

- 2.4 The Region’s current bulk water strategy consists of two parallel but related initiatives:

1. Hydrant permits – Staff have developed a plan to consolidate existing hydrant permits to a reduced number of approved hydrants which will streamline management and enforcement. Approved hydrants will be selected to minimized traffic issues and disturbance to residents. Approved hydrants will be equipped with flow meters and back flow prevention devices. It is anticipated that this plan will significantly reduce the number of hydrant permits.
2. Bulk Water Filling Stations – A program has been initiated to replace the aging BWFS with modern facilities. These facilities will be incorporated into new Regional water supply projects where appropriate. The Region will also consider other locations for standalone filling stations. As the Region’s bulk water filling station capacity increases, the requirement for hydrant permits will decrease. Eventually hydrant permits will only be issued for specific circumstances.

3. Hydrant Permit Program

- 3.1 The existing hydrant permit program allows water haulers to take water from specific hydrants identified by the Region and is based on a one to one ratio (one permit equals one hydrant). The haulers must apply for a permit and have their equipment inspected by the Region’s Maintenance Operations Depots (Depots) prior to a permit being issued. Once a permit has been issued, the haulers estimate and report their volumes taken to the Region’s Depots.

- 3.2 Since 2015, the Region has issued an average of 129 hydrant permits per year as outlined in Table 1 below. Some haulers have multiple permits.

Table 1: Hydrant Permits

Year	Permits
2015	114
2016	157
2017	131
2018	114
Average	129

- 3.3 Since 2015, the revenue associated with the hydrant permits has averaged \$512,988 annually, and the value for 2018 was \$567,062. The revenue values are listed in Table 2 below.

Table 2: Hydrant Permits – Revenue

Year	Hydrant Permit Revenue
2015	\$403,567
2016	\$535,896
2017	\$545,427
2018	\$567,062

- 3.4 Ten metered hydrant boxes have been purchased which contain flow meters and back flow preventers. Regional Depot staff will be installing these units at selected hydrant locations to improve the accuracy of water billing and reduce the amount of estimated volumes for billing purposes.

4. Existing Bulk Water Filling Stations

- 4.1 The Region's five existing BWFS supply approximately 120 haulers. The haulers access the filling stations using unique keys and the volumes taken are metered at the facility. The haulers are billed based on actual volumes. Table 3 below outlines the volume in cubic metres (cu. m.) and revenue from all BWFS from 2015 to 2017.

Table 3: Bulk Water Filling Stations

Year	Volume (cu. m.)	Revenue
2015	65,819	\$216,649
2016	85,468	\$278,671
2017	72,376	\$243,899
Average	74,555	\$246,406

- 4.2 The Region's existing BWFS were first installed in the 1970s and now require replacement and modernization. The existing stations have several drawbacks including site location, truck waiting capacity, truck filling speed and lack of automation. The existing key system is limited to 120 unique users.
- 4.3 Utilization of the BWFS varies seasonally and by location, but the stations may service upwards of 10 to 20 trucks per day. Some site-specific issues are outlined below:
- 4.4 Harwood Water Pumping Station (WPS), Town of Ajax
- Located on the corner of Harwood Avenue and Rossland Road at the Region's Harwood WPS, the site has limited room for maneuvering trucks and generates traffic concerns.
- 4.5 Whitby Water Supply Plant (WSP), Town of Whitby
- This facility will be closed due to construction of the WSP expansion project.
- 4.6 Port Perry Municipal Well Station, Township of Scugog
- This station is located at the Region's municipal well site on Simcoe Street (Regional Road 2), south of Port Perry. This location has limited parking area for trucks waiting to fill which often leads to trucks lining up on the shoulder of the road, creating traffic concerns.
- 4.7 Bowmanville WSP, Municipality of Clarington
- Filling location is directly under the heating, ventilation, and air conditioning (HVAC) intake for plant leading to the potential of exhaust fumes entering plant from idling trucks.

4.8 Beaverton Facility, Township of Brock (Brock)

- This location is part of Brock's storage facility and has poor access for larger trucks.

4.9 In addition to these site-specific issues, the current stations require water haulers to pre-purchase keys to operate these stations. The system is limited to 120 users and is now obsolete given advances in technology. New systems will be designed with automated access using personal identification numbers or other remote access. In addition, the new system will also allow more efficient billing and monitoring of station usage.

5. New Bulk Water Filling Stations

5.1 In 2018, Works Department staff issued a Request for Proposal (RFP) for engineering services for the detailed design of a new Regional BWFS at the Region's Ajax/Pickering Depot and Oshawa/Whitby Depot locations. Associated Engineering (AE) was awarded the engineering assignment.

5.2 The BWFS will be automated, allowing pre-approved bulk water customers to conveniently take water in a measured, controlled and secured manner. The proposed BWFS will operate 24/7 year-round. Each proposed station will consist of a pre-packaged manufactured assembly with metering, backflow prevention, and billing/communication equipment housed in a weatherproof enclosure.

5.3 The design of the BWFS will feature two lanes leading up the filling station enabling two trucks to fill simultaneously. The sites will be designed to accommodate several water trucks queuing to fill up, optimizing the available property. By-pass lanes will also be constructed. The proposed asphalt surface will be designed and constructed to heavy industrial roads and entranceways specifications, complete with heat-traced concrete pads to prevent winter icing of the surface adjoining the BWFS building. Operational water spills and rainwater runoff will be captured by catch basins, and treated prior to release.

5.4 These designs will include the following features:

- a) Ability to accommodate large tanker trucks (up to 36 cu. m./9,600 US gallon (usgal) tankers), with two trucks filling at once.
- b) Design fill rates of 35 litres per second (l/s) which would result in eight-minute fill times for a typical truck (16 cu. m./4,500 usgal).
- c) Automated access and billing systems.

- 5.5 The engineering assignment for the design of the BWFS at the Ajax/Pickering and Oshawa/Whitby Depots is currently underway. Some issues have been identified related to the Ajax/Pickering Depot location that may significantly increase costs, and options are currently being reviewed. As a result, the implementation of this station may be deferred.
- 5.6 Detailed engineering is currently in progress for the Oshawa/Whitby Depot location on Conlin Road, in the City of Oshawa. Design work is expected to be completed and ready for the tender process this spring.

6. Future BWFS Locations

- 6.1 Staff are incorporating BWFS requirements into the engineering work related to upcoming infrastructure projects. These projects include the Seaton Zone 4 Reservoir and the Port Perry Water Storage Facility projects which will both incorporate filling stations.
- 6.2 Staff are reviewing other potential locations throughout the Region based on the current BWFS design criteria. The preferred location of these stations has yet to be finalized.

7. Filling Station Costs

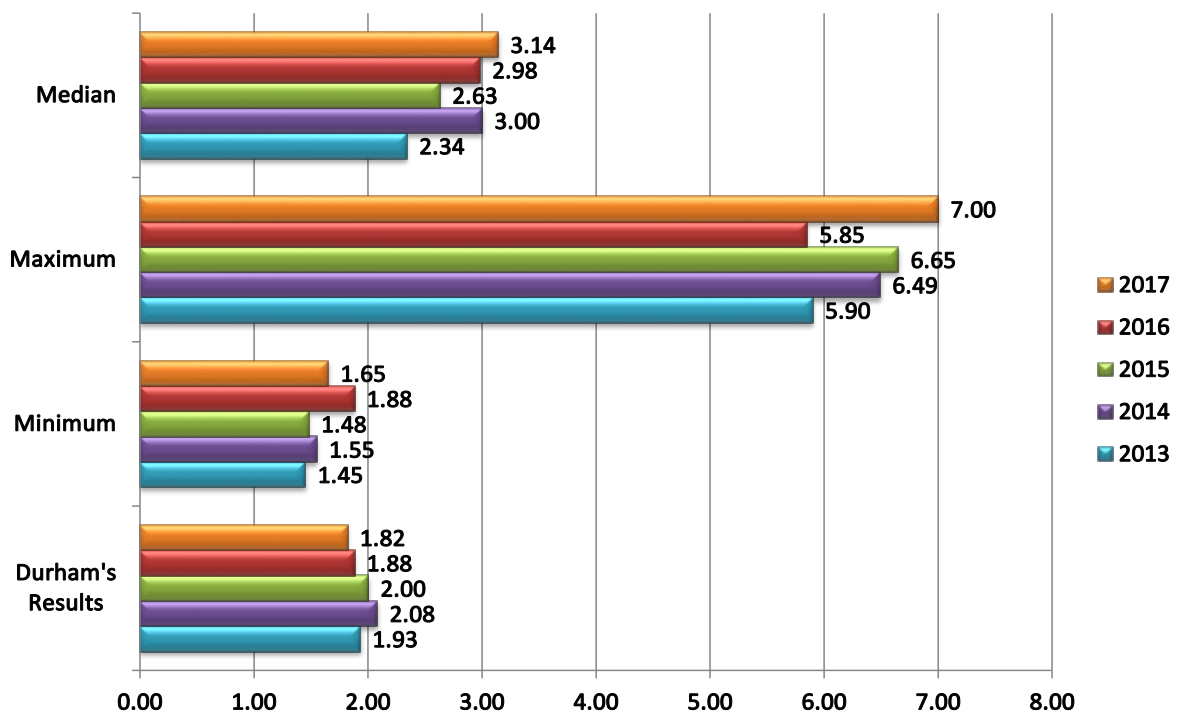
- 7.1 The construction cost for the BWFS will vary significantly for each site depending on the civil site works required and accessibility to the required utilities. The current estimate for the Oshawa/Whitby Depot site is approximately \$1 million for equipment and construction. It is expected that future sites will cost between \$500,000 and \$1 million each depending on the location. More accurate cost estimates will be available once the detailed engineering is completed.

8. Review of Other Municipal Bulk Water Strategies

- 8.1 Staff completed a review of the bulk water strategies in place at several municipalities in Southern Ontario. In general, most municipalities surveyed use a combination of filling stations and hydrant permits to service construction projects, maintenance activities and bulk water customers.

8.2 The following municipalities have operating BWFS: Town of Aurora, Regional Municipality of Halton, City of Markham, Regional Municipality of Peel and City of Vaughan. In reviewing water system leakage metrics for municipalities which have BWFS in comparison to the Region, the performance of the Region's system is better than most municipalities in the benchmarking comparison group, as noted in the Infrastructure Leakage Index (ILI) chart below.

Infrastructure Leakage Index (ILI) (MBN data)



Infrastructure Leakage Index

9. Implications of Banning Bulk Hydrant Permits for Bulk Water

9.1 Works Department staff has reviewed the potential impacts of a total ban on bulk water hydrant permits. It is expected that a total ban could create many issues including:

- Increase of potential water theft from Regional systems resulting in increased risk to the water system.
- Decrease in revenue from hydrant permit program.

- Potential operational impacts to bulk water operators and customers due to limited access to water.
- Increase in potential unapproved water takings from local water resources such as creeks, ponds and lakes.
- Increased congestion, traffic issues and wait times at our existing BWFS.

9.2 The Region would need to retrofit existing stations to increase the capacity of the current key access system to accommodate more accounts. This is not recommended due to the age and technology of the existing systems, and existing site issues.

10. Conclusion

10.1 Based on the Regional Municipality of Durham's water supply system performance for water loss, Works Department staff recommend that the Regional Municipality of Durham continue implementation of the current strategy to reduce the number of approved permits, implement a system of metering for all approved hydrant permits and replacement of the existing filling stations. As the filling station capacity and coverage increases over time, the number of metered hydrant permits can be reduced.

10.2 An update of the bulk water filling stations and hydrant permit program will be provided in the 2020 Annual Water Supply and Sanitary Sewerage Servicing and Financing Study.

10.3 For additional information, please contact Joseph Green, Project Engineer, Technical Support, at 905-668-7711 extension 3649.

Respectfully submitted,

Original signed by:

Susan Siopis, P.Eng.
Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer



The Regional Municipality of Durham Report

To: Works Committee
From: Commissioner of Works
Report: [#2019-W-13](#)
Date: February 6, 2019

Subject:

Additional Background Information Regarding the Legalities of the 2005 Ontoro Boulevard and Range Road Petition Process and Proposed Next Steps

Recommendation:

That Works Committee recommends to Regional Council that the Regional Municipality of Durham undertake a new petition of the Ontoro Boulevard and Range Road area for the installation of Regional water service.

Report:

1. Purpose

1.1 This report addresses the following direction received at the Works Committee Meeting of January 9, 2019:

That Report #2019-W-4 of the Commissioner of Works be referred back to staff for a report to include additional background information from Legal-Corporate Services regarding the legalities of the 2005 petition on Ontoro Boulevard and Range Road for the next Works Committee to be held on February 6, 2019.

2. Background

2.1 The community in the Range Road and Ontoro Boulevard area is in the south eastern portion of the Town of Ajax along the waterfront. There are approximately 35 rural residential dwellings and nine vacant lots for a total of 44 properties in the subject area. All properties are located outside of the designated Urban Boundary

in the Regional Official Plan and within the Provincial Greenbelt Plan Area. Each existing dwelling is serviced with a private well and sewage disposal system.

3. 2005 Petition

3.1 The Regional Municipality of Durham (Region) staff have reviewed a petition undertaken by the residents in the area in and around 2005 as well as the surrounding circumstances at that time. Those circumstances include the regulatory requirements applicable to local improvements as well as the application of the Greenbelt Plan.

3.2 The Ontoro Boulevard and Range Road areas were within the Greenbelt at the time the petition was received by the Region in 2005 and were therefore subject to the requirements of that Act, notably that no public works could be extended into the Greenbelt area unless the Medical Officer of Health determined a health issue. As it was determined in 2005 through the Medical Officer of Health that there was no health issue, the works sought in the petition were statute barred.

3.3 Further, the petition did not have sufficient support from residents to meet the requirements of the regulations, which was a majority of 2/3.

4. Current Status

4.1 In 2017, the Greenbelt Act Plan was amended, removing the express requirement for the Medical Officer of Health to make the declaration of a health issue. In June 2018, Regional Council made this declaration in order to assist the residents in the area, and a new petition process commenced.

4.2 The 2018 petition for services returned to the Region was unsuccessful. Regional Council then directed staff to prepare an updated report on the issues surrounding the earlier petitions. These reports are included as attachments to this report (Attachments #1 and #2).

4.3 Staff have reviewed the current relevant regulations and have determined that there is nothing which would prevent the residents from requesting a second petition.

REVISED**5. Recommended Next Steps**

- 5.1 Regional staff recommend the appropriate next step to be that the residents of the Ontoro Boulevard and Range Road community undertake a second petition process for the extension of services.
- 5.2 With several other communities in the Region presenting similar circumstances, staff do not recommend waiving the established Regional policies which would set a precedent for future petitions for services.

6. Conclusion

- 6.1 This report provides a summary of the issues surrounding the 2005 and 2018 petition process for Ontoro Boulevard and Range Road.
- 6.2 Regional staff recommend that the residents of the Ontoro Boulevard and Range Road area **request that the Regional Municipality of Durham undertake a second petition process** for the extension of services **to their properties**.
- 6.3 This report has been prepared in consultation with Corporate Services – Legal Services.
- 6.4 For additional information, please contact John Presta, Director, Environmental Services, at 905-668-7711, extension 3520.

7. Attachments

Attachment #1: Works Committee Report 2019-W-3: Petition for the Construction of a Watermain on Ontoro Boulevard and Range Road, in the Town of Ajax

NO CHANGE

Attachment #2: Works Committee Report 2019-W-4: Extension of Water Services to Replace Private Wells in the Range Road/Ontoro Boulevard Area, in the Town of Ajax

Respectfully submitted,

Original signed by:

Susan Siopis, P.Eng.
Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540



The Regional Municipality of Durham Report

To: Works Committee
 From: Commissioner of Works
 Report: #2019-W-3
 Date: January 9, 2019

Subject:

Petition for the Construction of a Watermain on Ontoro Boulevard and Range Road, in the Town of Ajax

Recommendation:

That the Works Committee recommends to Regional Council that this report be received for information.

Report:

1. Purpose

- 1.1 The purpose of this report is to provide Works Committee and Regional Council with the results of a petition for the construction of a watermain on Ontoro Boulevard and Range Road, in the Town of Ajax, as shown on Attachment #1.

2. Background

- 2.1 On June 13, 2018, Regional Council directed staff to initiate a petition process for water supply servicing, host an information session for residents, and to explore any potential grants and financing options.
- 2.2 An Information Session was held by the Regional Municipality of Durham (Region) on August 16, 2018. Approximately 35 property owners attended the meeting. A presentation was provided and a question and answer period followed. Property owners were advised that at the time, there was no grant funding being offered by the Province of Ontario.

- 2.3 In August 2018, the Region sent out a petition to the residents along Ontoro Boulevard and Range Road. A sample of the typical letter sent to residents is included in Attachment #2. The results of the petition were that 59 per cent of the property owners (26 out of 44) were in favour of the water supply service.
- 2.4 The governing legislation, Ontario Regulation 586/06 requires that 2/3 (67 per cent) of the property owners representing 50 per cent of the value of the lands, be in favour of the project for the petition to be successful. The Regional Clerk has certified that the property owners are not in favour of the petition.
- 2.5 The Region received three responses from property owners after the October 15, 2018 deadline.

3. Results

- 3.1 Forty-four (44) individual property owners were sent letters with a request to respond if each is “in favour” or “not in favour” of the construction of the watermain. The results were as follows:

In favour of the construction of the watermain	26
Not in favour of the construction of the watermain	6
No response received by the October 15, 2018 deadline	<u>12</u>
Total	44

- 3.2 As all non-responses are considered to be “not in favour”, the petition minimum requirements have not been met with only 59 per cent of the owners in support of the construction.

4. Conclusion

- 4.1 The petition for the construction of a watermain on Ontoro Boulevard and Range Road, in the Town of Ajax, has not met the minimum requirements in order to proceed as set out in Ontario Regulation 586/06.
- 4.2 For additional information, please contact John Presta, Director, Environmental Services, at 905-668-7711, extension 3520.

5. Attachments

Attachment #1: Location Plan – Range Road and Ontoro Boulevard Limits of Petition, Town of Ajax

Attachment #2: Petition Plan – Letter dated August 30, 2018 regarding petition for watermain construction on Range Road and Ontoro Boulevard, in the Town of Ajax

Respectfully submitted,

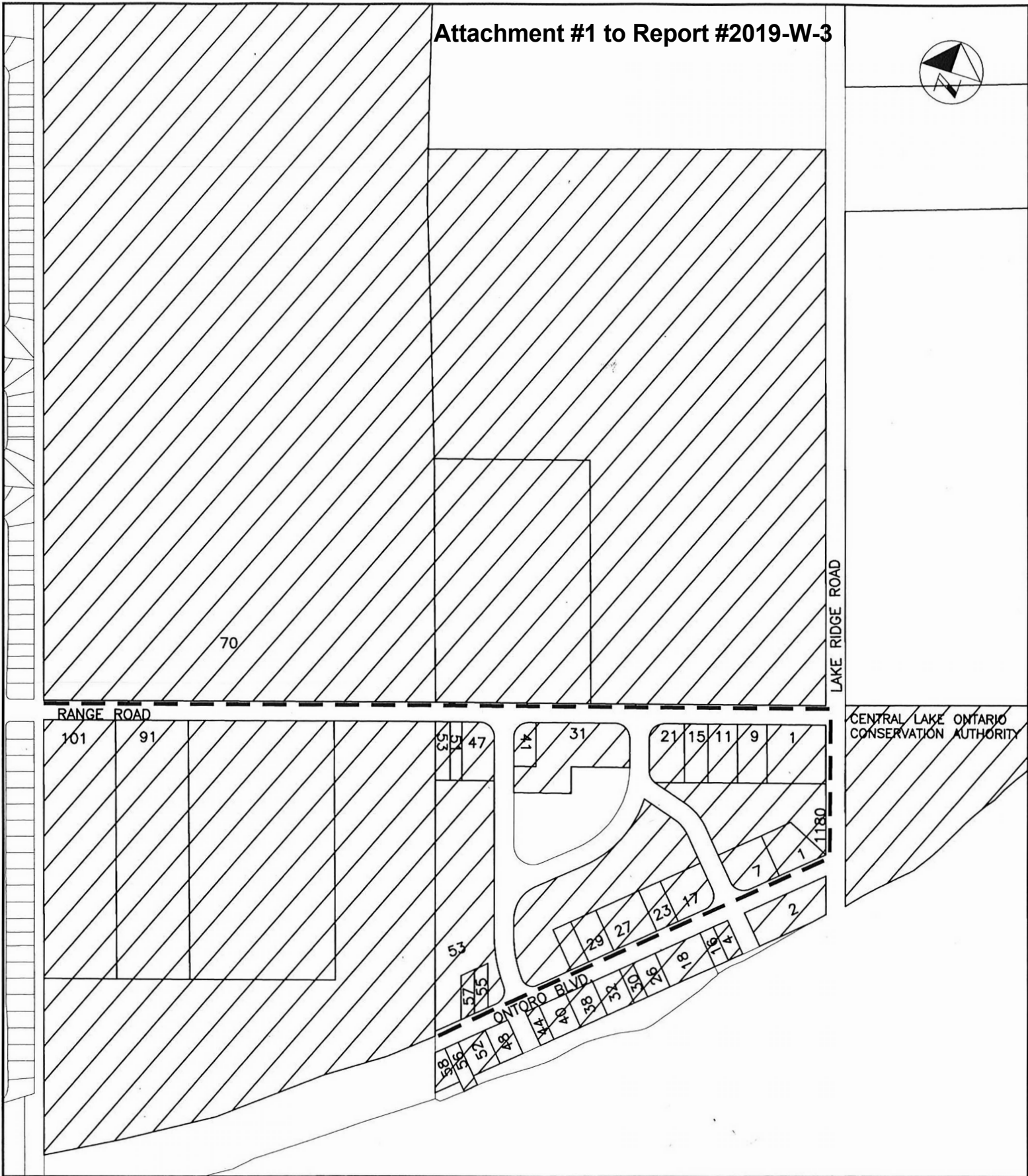
Original signed by:

Susan Siopis, P.Eng.
Commissioner of Works



Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer



RANGE ROAD AND ONTORO BOULEVARD
LIMITS OF PETITION
TOWN OF AJAX

PROPERTY SUBJECT TO FRONTAGE CHARGES 
PROPOSED 200 mm WATERMAIN 

August 30, 2018

Owners Address
Range Road and Ontoro Boulevard
Ajax, Ontario L1Z 1X2

Dear (Owner's Name) :

**Re: Petition for Watermain construction on Range Road
and Ontoro Boulevard, In the Town of Ajax**

Regional Council have directed staff to conduct a petition for a watermain on Range Road and Ontoro Boulevard, in order to service approximately 44 properties, in the Town of Ajax.

It is important to note that should the watermain construction proceed based on a successful petition, the actual project cost of the watermain will be fully recovered from the benefitting property owners through collection of area specific frontage charges. Please be advised that frontage charges are payable by all property owners following completion of the work, regardless of whether or not that property owner chooses to connect to the watermain. The water service connection charge remains payable only when and if a property owner chooses to connect.

The Region requests that you, as the property owner, respond by the date outlined on the attached form indicating whether or not you are in favour of proceeding with the construction of the watermain across the frontage of your property. Regulation 586/06 of the Municipal Act requires the support of at least 67 percent of the owners representing a minimum of 50 percent of the assessed property value of the benefitting lands in order to proceed with the design and construction of the watermain. Once the Region receives the petition results, the results of the petition will be filed with the Regional Clerk, and the Regional Clerk will then certify the sufficiency of the petition. Certified petition results are final, and will be reported to Regional Council.

In the event that the petition is successful, one water service connection will be provided to each property with a dwelling on it. All of the property owners abutting the new watermain will be responsible for their share of the cost. The share to be borne by each property owner will consist of the following:

Frontage Charge - This charge will be imposed on each owner following completion of the work. Alternatively, each owner may elect to pay in installments over a 10 year period at an annual interest rate of 6%. Owners will be required to pay the frontage charge whether connection is made to the water system or not.

Connection Charge - The owner will be required to pay for the water service connection from the watermain to the property line at the time of connection to the water system.

Specific costs for your property are included on the attached form.

- A) The current property has a residential dwelling on it. Should the petition be successful, a 19mm diameter water service will be provided to the property line during construction for the use of the existing residence. The property owner will be responsible for the actual cost of connecting the water service at the time of connection.

- B) The current property has a residential dwelling on it. Should the petition be successful, a 25mm diameter water service will be provided to the property line during construction for the use of the existing residence. The property owner will be responsible for the actual cost of connecting the water service at the time of connection.

OR

- C) The current property does not have a dwelling on it, and as such is not being provided with a water service to the property line. Should the petition be successful, one will be provided by the Region once the property owner pays the current (as of the time of connection) water service connection fees in advance of the issuance of a building permit to construct a dwelling.

Please note that all works on private property (works outside of the municipal right-of-way including, but not limited to, underground piping, internal and external plumbing, the abandonment of unused wells, etc.) are the responsibility of the property owner.

Once connected to the water system, each customer will pay a water user charge to contribute toward the operation and maintenance of the water system based on the water consumed.

Please complete the attached form indicating whether or not you support the project, understanding the timing for the payment of the required charges described above.

If you have any questions or comments on the above, please contact myself or Tracey Reid (extension 3516) at your convenience.

Yours truly,

Mike Hubble, P.Eng.
Development Approvals

Attach.

If this information is required in an accessible format, please contact the Accessibility Co-ordinator at 1-800-372-1102, ext. 2009.

Petition for watermain construction on Range Road and Ontoro Boulevard, in the Town of Ajax

Costs specific to (Address & the last revised assessment roll number)

I, _____ as owner of the above noted property, have
(please print)
reviewed the information supplied and acknowledge that I will be responsible for the following costs to be paid to the Regional Municipality of Durham should this petition for water services be successful:

Frontage Charges

Frontage: (specific frtg) m
Current Estimated Rate = \$555.74 per m

Total Estimated Frontage Charge = \$

Notes:

- (i) Frontage Charges are payable upon completion of construction regardless of whether a connection to the watermain is made or not.
- (ii) The actual project cost will be recovered through the frontage charges at the time they are payable. Estimates are provided above for example purposes only.

Connection Charge

19 mm Connection Charge = **\$7,000.00**

25 mm Connection Charge = **\$12,000.00** **OR**

No dwelling unit = to be determined when dwelling unit is constructed.

Notes:

- (i) Connection Charges are payable if and when the property owner chooses to connect.
- (ii) Actual costs will be used to determine the connection charge. Estimated rates are provided above for example purposes only.

Based on the above (please indicate your preference with an X):

I am in favour of the construction of the watermain

I am not in favour of the construction of the watermain

(Signature)

Please complete this form and mail it to Tracey Reid in the addressed envelope provided on or before October 15, 2018.

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



The Regional Municipality of Durham Report

To: Works Committee
 From: Commissioner of Works
 Report: #2019-W-4
 Date: January 9, 2019

Subject:

Extension of Water Services to Replace Private Wells in the Range Road/Ontoro Boulevard Area, in the Town of Ajax

Recommendations:

That the Works Committee recommends to Regional Council that this report be received for information.

Report:

1. Purpose

1.1 This report provides an overview regarding water quality issues and the requests to provide municipal water supply to Range Road/Ontoro Boulevard area, in the Town of Ajax (Ajax). Works Committee Report #2019-W-3 (also on this agenda) summarizes the results of the August 2018 petition for the construction of a watermain in the area.

2. Background

2.1 The Range Road/Ontoro Boulevard community is located in the rural south eastern portion of Ajax, generally along the waterfront. There are approximately 35 rural residential dwellings in the subject area.

2.2 The Urban Area Boundary is on the east side of the existing residential community. Municipal sanitary sewer and water services terminate at the intersection of Ashbury Boulevard and Hoile Drive, next to Range Road.

- 2.3 All properties within the Range Road/Ontoro Boulevard community are located outside of the designated Urban Area Boundary of the Regional and local Official Plans. The residential properties are within the Protected Countryside Area of the provincial Greenbelt Plan. The majority of the dwellings within this area are 400 metres to 800 metres east of the designated Urban Area boundary. Each dwelling is serviced with a private well and sewage disposal system.
- 2.4 Section 4.2.2.2 of the Greenbelt Plan, 2017 indicates the following:
- The extension of *municipal or private communal sewage or water services* outside of a *settlement area* boundary shall only be permitted in the case of health issues or to service *existing uses* and the expansion thereof adjacent to the *settlement area*.
- 2.5 In July 2005, the Region received an initial request for petition for services from residents of twenty-three (23) homes. Based on the prevailing provincial and Regional planning policies in place, the extension of water services could not be extended in the absence of an identified health issue. While historic testing available indicated that the water had some quality parameters that were outside of the health-related objectives for potable water, these could be addressed through private on-site treatment systems.
- 2.6 In 2011, the Region received correspondence addressed to Ajax Mayor Parish from Ms. T. M. Mason regarding water quality in the private wells in the Range Road/Ontoro Boulevard area of Ajax followed by a request for petition signed by residents of Range Road and Ontoro Boulevard requesting that municipal water and sanitary sewer service be extended to the area. The residents were advised that municipal water could not be extended to the area because there was no evidence of an identified health issue.
- 2.7 At its meeting on June 13, 2018, Regional Council declared that the water quality on Ontoro Boulevard and Range Road constitutes a health issue and directed Regional staff to start the petition process for water supply to the affected residents.
- 2.8 Upon review, the previous initial petition requests did not meet the requirements under the Ontario Regulation 586/06. Report #2018-INFO-80 prepared by Corporate Services – Legal provides more information on this subject.

3. Municipal Servicing and Financing

- 3.1 As the most recent petition for services to this community failed, the extension of municipal services to the subject area has not been planned within the Region's Water Supply and Sanitary Sewerage Servicing and Financing Study.
- 3.2 In the event a petition is successful and then certified by the Regional Clerk, the requested municipal water supply would be constructed from the existing serviced residential community, easterly along Range Road to Lake Ridge Road, then southerly to Ontoro Boulevard, and then westerly for approximately 1,450 metres. The preliminary conceptional cost estimate for this watermain extension is in the order of \$1.4 million (total cost is \$1.8 million including connection costs), subject to engineering for site specific conditions.
- 3.3 As per the approved 2019 Listing of Fees and Charges, costs related to the installation of a water service resulting from a successful petition will be recovered at the actual cost (i.e. full cost recovery). The charges are imposed on each owner following completion of the work. Each owner has the option to pay in installments of a 10-year period at an annual interest rate of 6%. All owners will be required to pay the frontage charges upon completion of the watermain construction whether a connection is made to the service or not.
- 3.4 In addition, owners connecting to the services will be required to pay the actual connection cost from the property line at the time they choose to connect, and the homeowner is responsible for all works on private property.

- 3.5 There is approximately 2,606 metres of frontage applicable to the recent petition on Ontoro Boulevard. Staff were asked to consider the potential implications of 'grandfathering' an installation of a watermain on Ontoro Boulevard based on the date of the first request for petition submitted to the Region (i.e. the rates in effect in 2005 for frontage and connection charges). The following table depicts the recovery of costs based on the 2005 rates and the shortfall related to this approach:

<u>A. Frontage Charges</u>	<u>Rate</u>	<u>Frontage Charge</u>
Estimated Frontage: 2,606 metres		
Recovery based on 2005 Rates	\$135/metre	(\$351,810)
Estimated cost of Watermain (full cost recovery based on estimated cost of \$1,448,683 in 2018 petition)	\$555/metre	\$1,448,683
Variance that would be funded through User Rates		<u>\$1,096,873</u>
<u>B. Connection Charges</u>		<u>Connection Recovery</u>
Recovery based on 2005 Connection Rates		(\$62,820)
Recovery based on Petition (full cost recovery based on estimated costs of \$322,000 in 2018 petition)		\$322,000
Lost Connection Recovery		<u>\$259,180</u>

- 3.6 Based on the above analysis, Regional funding of approximately \$1.36 million would be required if the 2005 frontage and connection rates were used. This funding shortfall cannot be financed from development charges and would have to be financed from water user revenue through higher user rates (an increase of nearly 1.3 per cent for water supply) or a draw from the water supply treatment plant/rate stabilization reserve fund.

- 3.7 The impact of this additional increase to the average residential user would be \$6 per year (based on 220 cubic metres of annual usage) for this specific situation. For a large water user the impact would be approximately \$1,800 per year (based on 227,272 cubic metres of annual usage).
- 3.8 A draw from the reserve fund would utilize funding from a reserve fund that was built up from existing ratepayers and is intended to address future asset management needs and to provide contribution towards major plant capital projects.
- 3.9 Given that earlier requests for petitions were examined and did not meet the requirements under the Ontario Regulation 586/06, grandfathering charges at historical rates should not be considered in this particular situation. In addition, due to the absence of a declared health issue in 2005, the Region could not extend services at that time in accordance with existing provincial and Regional planning policies even with a valid petition.
- 3.10 At Regional Council's direction, staff reviewed available funding opportunities in 2018 to assist the residents of Ontoro Boulevard with the financing of the watermain installation. As previously disclosed, at this time there are no funding opportunities available to which this project would be applicable. Regional staff are not aware of any approved funding from the Town of Ajax in order to share in the cost of the extension of a watermain for the residents in this area.
- 3.11 The residential lots in the Ontoro Boulevard/Range Road area are in a unique setting, however, there are hundreds of properties within the Region with private water and sanitary disposal services which have or have the potential to experience water quality and quantity issues. Any actions the Region may take to provide relief will likely set a precedent for other situations across the Region.

4. Regional Well Interference Policy

- 4.1 The Region's Well Interference Policy (Policy) was established to provide relief to residential property owners in situation where their private well has been negatively impacted by the construction of Regional services. The construction of Regional services does not include local servicing impacts such as but not limited to grading, stormwater management ponds, storm sewers and foundation drain collectors.

- 4.2 The Policy uses development charge revenues to provide a temporary supply of water during construction of Regional Services to the affected homeowner and the construction of watermains and water services to the property line. Any work on private property remains at the homeowner's expense.
- 4.3 In cases where services cannot be extended due to Provincial Legislation, well interference is resolved with the drilling and commissioning of new wells.
- 4.4 The Region has previously reviewed this area to determine if the provisions of the Well Interference Policy should be applied. The residential subdivision to the west of Ontoro Boulevard and Range Road is located within the Carruthers Creek Watershed. Private wells along Ontoro Boulevard and Range Road are located within the Warbler Creek Watershed. The servicing of the subdivision to the west could not have impacted the private wells along Ontoro Boulevard and Range Road, as shallow groundwater flow does not cross watershed boundaries. There is no new development immediately north of Ontoro Boulevard and Range Road.
- 4.5 In a letter from the Ministry of Environment and Climate Change (MOECC) (now Ministry of Conservation and Parks (MECP)) dated January 18, 2018, the MECP noted that "factors that make wells susceptible to microbiological contamination include well construction, maintenance, or siting near sources of contamination" and "all of the parameters found in excess of the Ontario Drinking Water Standards are naturally occurring...". Regarding the sources of the parameters exceeding aesthetic or operational objectives, the MECP stated that "the sources of these substances in the water are natural mineral deposits in the shale bedrock".

- 4.6 Given that Provincial legislation prohibits the extension of services to this community and that the analysis of water undertaken by the MECP indicates that the aesthetic and microbiological contamination are naturally occurring, the Region's Well Interference Policy would not provide a resolution to the concerns.

5. Conclusion

- 5.1 Applying grandfathered frontage and connection rates to the extension of water services to this community is not applicable given that the petition requests initiated in 2005 and 2011 were not completed and certified in accordance with the requirements of Ontario Regulation 586/06. The financial implications and lost cost recovery would be significant and would require user rate financing to bridge the gap.
- 5.2 There are hundreds of properties within the Regional Municipality of Durham with private water and sanitary disposal services which have or have the potential to experience water quality and quantity issues. Any actions the Regional Municipality of Durham may take to provide relief will likely set a precedent for other situations across the Regional Municipality of Durham. Regional staff recommend that the full cost be borne by the property owners who will receive the benefit of the service.
- 5.3 This report has been reviewed by the Finance Department.
- 5.4 For additional information, please contact John Presta, Director, Environmental Services, at 905-668-7711, extension 3520.

6. Attachments

Attachment #1: 2018-INFO-80: Petition - Range Road/Ontoro Boulevard Area
Construction of Watermain

Respectfully submitted,

Original signed by:

Susan Siopis, P.Eng.
Commissioner of Works

Recommended for Presentation to Committee

Original signed by S. Siopis for:

Elaine C. Baxter-Trahair
Chief Administrative Officer

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2166



The Regional Municipality of Durham Information Report

From: Director of Corporate Services – Legal Services
Report: #2018-INFO-80
Date: May 18, 2018

Subject:

Petition - Range Road/Ontoro Boulevard Area Construction of Watermain

Recommendation:

Receive for information

Report:

1. Purpose

1.1 The purpose of this report is to provide a response to the question from Council as to whether the petition signed by 23 residents of the Range Road/Ontoro Boulevard area in 2005 with regards to the construction of a watermain to service their properties is still valid.

2. Background

2.1 Report 2018-INFO-29 included a petition that appears to be from 2011 and signed by 27 owners, in contrast to the 2005 petition signed by 23 owners, which was not available to be reviewed.

2.2 A valid petition with respect to a local improvement by-law must be in the form prescribed by Ontario Regulation 586/06 made under the *Municipal Act, 2001*. For example, the 2011 petition appears to have been sent to the Regional Chair and not filed with the Regional Clerk as required by the Regulation, and it does not appear to sufficiently describe the work proposed to be carried out. Based on the response from the Commissioner of Works to the 2005 petition, it appears that owner support for the works was insufficient to comply with the Regulation.

- 2.3 Moreover, The Regional Clerk may not be in a position to certify the results of either the 2005 or the 2011 petitions given the passage of time and dating of the information contained in the petitions. Accordingly, given the passage of time (13 years, 7 years, respectively) it would be advisable to do a fresh petition, containing up-to-date information, in connection with these proposed works to account for changes in ownership, opinion, and financial circumstances, among other matters.
- 2.4 Regardless of any issues with the form of the 2005 petition, the 2011 petition, or any forthcoming current, valid petition there remains the issue with conformity to the Greenbelt Plan. In the Commissioner of Works response to the 2005 petition, issues with respect to conformity with both the Greenbelt Plan and the Regional Official Plan were identified.

3. Conclusion

- 3.1 The 2005 petition does not appear to be a valid petition for the purposes of Ontario Regulation 586/06.

4. Attachments

Attachment #1: Correspondence from the Commissioner of Works, dated July 20, 2006

Respectfully submitted,

Original signed by

Jason Hunt
Director of Legal Services



July 20, 2006

JUL 24 2006

HEALTH DEPARTMENT

See attached mailing list

Dear Sir or Madam,

Re: Update on the Status of the Petition for Extension of Municipal Water to Range Road, Lakeridge Road, Ontoro Boulevard and Dawncrest Road, Town of Ajax

First, please let me apologize for not getting back to everyone sooner with an update on the status of a petition for extension of municipal water service to Range Road, Lakeridge Road, Ontoro Boulevard and Dawncrest Road.

The Region of Durham Works Department received the petition in July 2005 from residents of twenty-three (23) homes. Staff subsequently generated a preliminary design and budget cost estimate for the works. The estimated cost of construction, including the provision of hydrants to provide fire protection is \$815,000.

I did not discuss the petition with the Ajax politicians as there were outstanding planning issues that needed to be resolved.

The properties are all located outside of the existing urban area of the Town of Ajax and there are provincial and regional planning policies which must be considered prior to the approval of extension of water services.

The Provincial Greenbelt Plan has designated the area "protected countryside" and the homes are not identified as a "settlement area" within the Greenbelt Plan. The Greenbelt Plan also indicates that the extension of services outside of a settlement area shall only be permitted in the case of a health issue. The province does not envision any amendment to the Greenbelt Plan before the Plan's ten (10) year review by the province.

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The Regional
Municipality
of Durham

Works Department

605 ROSSLAND RD. E.
P.O. BOX 623
WHITBY ON L1N 6A3
CANADA
905-668-7711
Fax: 905-668-2051

E-mail:
works@region.durham.on.ca

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C. R. Curtis, P. Eng., MBA
Commissioner of Works

-2-

The proposed service would also not conform to the Regional Official Plan (ROP). The lands are designated "Major Open Space" in Durham's Official Plan and are located outside the Ajax Urban Area. The ROP generally provides that rural areas will be privately serviced and that the extension of services will only be permitted where mitigating solutions to health issues cannot be found. In the absence of a health issue, the proposed municipal water service connection does not meet the intent of the ROP.

The Region of Durham Health Department reviewed some results of previous water quality analysis of the wells of some of the properties in the area. These results did not indicate the water supply was a health risk. The historic tests indicated that the water had some quality parameters that are outside of the health-related objectives for potable water, but these could be rectified using on-site treatments systems. There was no evidence of any significant bacteriological contamination.

Staff of the Works and the Health Departments recently met with Mr. Healy (as spokesperson for the petitioning group) to discuss the status of the petition and provided Mr. Healy with a number of bacteriological water sampling kits to distribute in the community. The results of these water samples will identify bacterial contamination (Total Coliform and/or E. coli) in the private wells/water supplies in the area. We encourage each of you to have your well water tested and the Public Health Lab will advise both the person submitting the sample and the local health department of the results. No results will be released which identify any specific property or owner.

In the absence of an identified health issue municipal water can not be extended to the area in the near term.

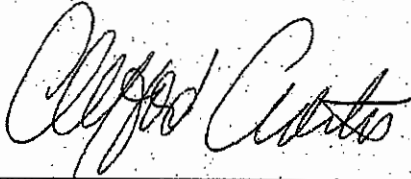
Therefore I suggest that we await the results of the well testing to determine whether or not a bacteriological health issue may exist. If such a possibility is indicated, the Region will do some additional investigation to verify the health risk. The Health Department also provides advice and suggestions/options to owners of private drinking water supplies on adverse sample results (e.g. presence of Total Coliform and/or E. coli). This could include disinfection of the well and information on well integrity information. If the Health Department determines that a risk is present that is best corrected by extension of municipal water we will put forward the necessary funding for consideration in budget deliberations.

..3

-3-

We will update you as more information becomes available. In the meantime, please don't hesitate to give me a call or send me an email.

Yours truly,



Clifford Curtis, P. Eng., MBA
Commissioner of Works

/cb

cc: Roger Anderson, Regional Chair
Mayor Steve Parrish, Mayor, Town of Ajax
Councillor Colleen Jordan, Town of Ajax
Councillor Pat Brown, Town of Ajax
Alex Georgieff, Commissioner of Planning
Dr. Robert Kyle, Commissioner of Medical Officer of Health
Ken Gorman, Director Environmental Health