



The Regional Municipality of Durham

Works Committee Agenda

Council Chambers
Regional Headquarters Building
605 Rossland Road East, Whitby

Wednesday, January 6, 2021

9:30 AM

Please note: In an effort to help mitigate the spread of COVID-19, and to generally comply with the directions from the Government of Ontario, it is requested in the strongest terms that Members participate in the meeting electronically. Regional Headquarters is closed to the public, all members of the public may view the Committee meeting via live streaming, instead of attending the meeting in person. If you wish to register as a delegate regarding an agenda item, you may register in advance of the meeting by noon on the day prior to the meeting by emailing delegations@durham.ca and will be provided with the details to delegate electronically.

1. Roll Call

2. Declarations of Interest

3. Adoption of Minutes

A) Works Committee meeting – December 4, 2020

Pages 4 - 12

4. Statutory Public Meetings

There are no statutory public meetings

5. Delegations

There are no delegations

6. Presentations

- 6.1 Gioseph Anello, Director, Waste Management Services and Christine Roarke, HDR Consultant, re: Long-Term Waste Management Plan Development (2021-WR-1) [Item 7.2 A)]

- 6.2 John Presta, Director of Environmental Services, re: Update on Proposed Upgrades at the Duffin Creek Water Pollution Control Plant related to the Outfall Environmental Assessment and the Phosphorous Reduction Action Plan

7. Waste

- 7.1 Correspondence

- 7.2 Reports

- A) Long-Term Waste Management Plan 2020 Consultation, Vision and Objectives (2021-WR-1) 13 - 26

8. Works

- 8.1 Correspondence

- 8.2 Reports

- A) Expropriation of Lands Required for the Proposed Bus Rapid Transit project along Highway 2 (Kingston Road), in the City of Pickering, Town of Ajax and Town of Whitby (2021-W-1) 27 - 31

- B) Offer to Renew Lease Agreement with 2537613 Ontario Limited for Premises Occupied by the Durham Regional Police Services Located at 19 Courtice Court, in the Municipality of Clarington (2021-W-3) 32 - 35

- C) Project Update and Additional Engineering Services for the Proposed Whitby Water Supply Plant Expansion, in the Town of Whitby (2021-W-4) 36 - 41

9. Advisory Committee Resolutions

There are no advisory committee resolutions to be considered

10. Confidential Matters

- 10.1 Reports

- A) Confidential Report of the Commissioner of Works – Proposed or Pending Acquisition or Disposition of Land for Regional Corporation Purposes as it Relates to the Purchase of Lands Required for the Gibb Street and Hwy 2 BRT Projects (2021-W-2) Under Separate Cover

11. Other Business

12. Date of Next Meeting

Wednesday, February 3, 2021 at 9:30 AM

13. Adjournment

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The Regional Municipality of Durham

MINUTES

WORKS COMMITTEE

Wednesday, December 2, 2020

A regular meeting of the Works Committee was held on Wednesday, December 2, 2020 in Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby, Ontario at 9:30 AM. Electronic participation was offered for this meeting.

1. Roll Call

Present: Councillor Mitchell, Chair
Councillor Marimpietri, Vice-Chair
Councillor Barton
Councillor Crawford
Councillor McLean
Councillor John Neal
Councillor Smith
Regional Chair Henry
*** all members of Committee except Councillor Mitchell and Regional Chair Henry participated electronically**

Also
Present: Councillor Dies
Councillor Foster attended the meeting at 9:42 AM
Councillor Highet
Councillor Wotten attended the meeting at 9:50 AM

Absent: None

Staff

Present: E. Baxter-Trahair, Chief Administrative Officer
G. Anello, Director of Waste Management Services
J. Demanuele, Director of Business Services, Works Department
J. Hunt, Director of Legal Services, Corporate Services – Legal Services
R. Inacio, Systems Support Specialist, Corporate Services – IT
R. Jagannathan, Director of Transportation and Field Services
J. Paquette, Manager (Works), Corporate Communications
N. Pincombe, Director of Business Plans and Budgets
J. Presta, Director of Environmental Services
S. Siopis, Commissioner of Works
N. Taylor, Commissioner of Finance
S. Glover, Committee Clerk, Corporate Services – Legislative Services
C. Tennisco, Committee Clerk, Corporate Services – Legislative Services

2. Declarations of Interest

There were no Declarations of Interest.

3. Adoption of Minutes

Moved by Councillor Marimpietri, Seconded by Councillor Barton,
(94) That the minutes of the regular Works Committee meeting held on
Wednesday, November 4, 2020, be adopted.

CARRIED

4. Statutory Public Meetings

There were no statutory public meetings.

5. Delegations

5.1 George Rocoski, Energy from Waste-Waste Management Advisory Committee (EFW-WMAC) Chair, re: EFW-WMAC Annual Report

G. Rocoski appeared before the Committee with a PowerPoint presentation in regards to the Energy from Waste–Waste Management Advisory Committee Annual Update Report.

Highlights from the presentation included:

- Committee Members 2019-2020
- Tour of Durham Region Waste Facilities
 - Material Recovery Facility (Whitby)
 - Transfer Station (Oshawa)
 - Composting Facility (Clarington)
- 2020 Committee Meetings
- Regularly Scheduled Meetings
 - Tuesday, February 25, 2020
 - Tuesday, May 26, 2020 (Cancelled due to COVID)
 - Tuesday, September 22, 2020
 - Tuesday, November 24, 2020
- Special Meetings
 - Wednesday, July 15, 2020
 - Wednesday, November 18, 2020
- Topics Discussed at 2020 Committee Meetings
- Motions
 - Meeting of February 25, 2020
 - Meeting of July 15, 2020
 - Meeting of September 22
 - Meeting of November 18

- 2020 Summary

G. Rocoski highlighted the activities of the Committee through 2020; and the various motions made by the Committee throughout the year.

Chair Mitchell thanked G. Rocoski and the Committee for their work.

6. Presentations

6.1 John Presta, Director of Environmental Services re: Report #2020-W-53: Works Department – 2021 Water Supply and Sanitary Sewerage Business Plans and Budgets [Item 8.2 C)]

J. Presta provided a PowerPoint presentation regarding the 2021 Water Supply and Sanitary Sewerage Business Plans and Budgets.

Highlights from the presentation included:

- 2021 Budget – Strategic Priorities
- 2021 Budget Overview
- Sanitary Sewerage System
- Water Supply System
- 2020 Water Supply and Sanitary Sewerage Accomplishments
- 2021 Sanitary Sewerage Proposed Expenditures and Financing
- 2021 Water Supply Proposed Expenditures and Financing
- 2021 Water Supply and Sanitary Sewerage Priorities and Highlights
- Major Project - Sanitary Sewerage
 - System Expansion
- Major Project - Water Supply and Sanitary Sewerage
 - Betterment and Replacement
- Major Project - Water Supply
 - Buildings
- Major Project - Water Supply and Sanitary Sewerage
 - System Expansions
- Major Project - Sanitary Sewerage
 - Machinery and Equipment
 - Buildings
- Major Project - Water Supply
 - Buildings
 - Betterments and Replacement
- Major Project – Sanitary Sewerage
 - Machinery and Equipment
- 2021 Potential Risks and Uncertainties
- 2021 Initiatives to Modernize & Find Service Efficiencies
- Future Budget Pressures

J. Presta responded to questions from the Committee regarding the status of the polybutylene piping replacement program; the status of the environmental assessment for the Cannington and Sunderland wastewater facilities; an update on the Uxbridge Water Pollution Control Plant (WPCP) upgrades; and the relationship between Ontario Tech with regards to COVID testing of sanitary sewage from the Region's system.

In response to a question regarding the theoretical possibility of one sewage treatment plant servicing both Sunderland and Cannington, J. Presta advised that he will follow-up with the project team once the feasibility of that has been explored.

In response to a question regarding whether the Region's water supply system could meet the large water use needs of General Motors, J. Presta advised that it should not be a problem, but he would follow-up on this matter with General Motors.

Regional Chair Henry requested that staff assess for all projects the question of whether appropriate conduits for fibre optic cables can be placed in the ground at the same time other underground works are constructed, by engaging utility companies and lower tier municipalities as appropriate.

Detailed discussion ensued regarding where Port Perry's sanitary sewage flows into; the future outfall location for Upper York Region and whether Durham has the capacity at the Duffin Creek Water Pollution Control Plant in the City of Pickering plant to accommodate the potential addition of 153,000 customers. Staff also advised that servicing the extra capacity of customers would have to be reviewed and that the Region of York would have to provide details on how their servicing will be allocated.

Staff advised that the sanitary sewage from Port Perry is treated at the Nonquon WPCP and discharges to the Nonquon River and then into Lake Scugog.

Further discussion ensued regarding the EA identified preferred solution for Upper York's wastewater being discharged to Lake Simcoe; concerns raised by York regarding future decisions by the Province; and whether Works staff have any further updates. Staff advised that they will be meeting with provincial officials later in the week, and that a decision has not yet been made on which option the Province will approve, but it appears that their preference is for a Lake Ontario solution.

Regional Chair Henry advised that he has had direct conversations with the Members of Provincial Parliament for the City of Pickering, Township of Uxbridge, and the Town of Ajax, and that a decision by the Province is due by the first quarter of 2021.

7. Waste

7.1 Correspondence

There were no items of communication to be considered.

7.2 Reports

There were no Waste Reports to consider.

8. Works

8.1 Correspondence

There were no items of communication to be considered.

8.2 Reports

- A) Sole Source Engineering Assignment for Transition Programming of the Programmable Logic Controllers and Human Machine Interface Controls in Blower Buildings 1 and 2 at the Duffin Creek Water Pollution Control Plant, in the City of Pickering (2020-W-51)
-

Report #2020-W-51 from S. Siopis, Commissioner of Works, was received.

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

- A) That Eramosa Engineering Incorporated be retained to provide transition programming for the Programmable Logic Controllers (PLCs) and Human Machine Interface (HMI) controls located in Blower Buildings 1 and 2 at the Duffin Creek Water Pollution Control Plant (WPCP) at an upset limit not to exceed \$204,000*;
- B) That the cost of this assignment will be funded from the approved 2020 Sanitary Sewage System Business Plan and Budget, cost shared with the Regional Municipality of York, as estimated below:

| | |
|--|-------------------------|
| Durham Region Share (18.42%) User Rate | \$37,577 |
| York Region Share (81.58%) | <u>166,423</u> |
| Total Upset Limit | <u>\$204,000</u> |

- C) That the Commissioner of Finance be authorized to execute the necessary engineering services agreement.

(*) including disbursements and before applicable taxes

CARRIED

B) Approval to Enter into a Sole Source Agreement with SNF Canada Limited for the Supply and Delivery of Liquid Emulsion Polymer to the Duffin Creek Water Pollution Control Plant, in the City of Pickering (2020-W-52)

Report #2020-W-52 from S. Siopis, Commissioner of Works, was received.

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

- A) That the Regional Municipality of Durham enter into a sole source agreement with SNF Canada Limited for the supply and delivery of liquid emulsion polymer to the Duffin Creek Water Pollution Control Plant for a six-month term at an estimated maximum contract value of \$1,000,000*;
- B) That the sole source agreement be funded from the annual Sanitary Sewerage Business Plans and Budget, with costs shared proportionally between the Regional Municipalities of Durham and York based on the estimated utilization as follows:

| | |
|--|---------------------------|
| Durham Region Share (18.67%) User Rate | \$186,700 |
| York Region Share (81.33%) | <u>\$813,300</u> |
| Total Upset Limit | <u>\$1,000,000</u> |

- C) That the Commissioner of Finance be authorized to execute the necessary documents related to the sole source agreement.
(*) before applicable taxes

CARRIED

C) Works Department – 2021 Water Supply and Sanitary Sewerage Business Plans and Budgets (2020-W-53)

Report #2020-W-53 from S. Siopis, Commissioner of Works, was received.

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

That the Works Department's portion of the 2021 Water Supply System and Sanitary Sewerage System Business Plans and Budgets be approved.

CARRIED

9. Advisory Committee Resolutions

9.1 Energy From Waste – Waste Management Advisory Committee

A) Resolution regarding Amendment to the Long-Term Waste Management Plan (LTWMP) Guiding Principles

Moved by Councillor Barton, Seconded by Councillor John Neal,
(98) That the resolution from the Energy from Waste – Waste Management Advisory Committee regarding amendments to the Long-Term Waste Management Plan (LTWMP) Guiding Principles, be received for information.

CARRIED ON THE FOLLOWING
RECORDED VOTE:

Yes

No

Councillor Barton
Councillor Crawford
Regional Chair Henry
Councillor Marimpietri
Councillor McLean
Councillor John Neal
Councillor Smith
Councillor Mitchell, Chair

None

Members Absent: None

Declarations of Interest: None

B) Resolution regarding Suggested Actions During the Consideration of the Long-Term Waste Management Plan (LTWMP)

Moved by Councillor Barton, Seconded by Councillor John Neal,
(99) That the resolution from the Energy from Waste – Waste Management Advisory Committee regarding suggested actions during the consideration of the Long-Term Waste Management Plan (LTWMP), be received for information.

CARRIED ON THE FOLLOWING
RECORDED VOTE:

Yes

No

Councillor Barton
Councillor Crawford
Regional Chair Henry
Councillor Marimpietri
Councillor McLean
Councillor John Neal
Councillor Smith
Councillor Mitchell, Chair

None

Members Absent: None

Declarations of Interest: None

10. Confidential Matters

There were no confidential matters to be considered.

11. Other Business

11.1 Request from the Region of Durham that the Region of York affirm by Resolution its support for the Lake Simcoe Solution as Documented in the Upper York Sewage Solutions (UYSS) Environmental Assessment

Moved by Councillor McLean, Seconded by Councillor Crawford,
(100) That we recommend to Council:

Whereas the Council of the Region of Durham supports the Lake Simcoe Solution for the proposed servicing solution for the Upper York Sewage Solutions (UYSS) Environmental Assessment;

Now therefore be it resolved that the Region of Durham request that the Council of the Region of York affirm by resolution its support for the Lake Simcoe Solution as documented in the Upper York Sewage Solutions (UYSS) Environmental Assessment, and that the resolutions from York and Durham be circulated to the Premier, all MPPs in the Region of Durham and York Region, to the leaders of the opposition, and to the local municipalities in the Region of Durham.

CARRIED ON THE FOLLOWING
RECORDED VOTE:

Yes

Councillor Barton
Councillor Crawford
Regional Chair Henry
Councillor Marimpietri
Councillor McLean
Councillor John Neal
Councillor Mitchell, Chair

No

Councillor Smith

Members Absent: None

Declarations of Interest: None

12. Date of Next Meeting

The next regularly scheduled Works Committee meeting will be held on Wednesday, January 6, 2021 at 9:30 AM in Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby.

13. Adjournment

Moved by Regional Chair Henry, Seconded by Councillor Barton, (101) That the meeting be adjourned.

CARRIED

The meeting adjourned at 10:45 AM

Respectfully submitted,

D. Mitchell, Chair

S. Glover, Committee Clerk

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: #2021-WR-1
Date: January 6, 2021

Subject:

Long-Term Waste Management Plan 2020 Consultation, Vision and Objectives

Recommendation:

That the Works Committee recommends to Regional Council that Council endorse the guiding principles, recommended vision and objectives to be used as the framework to develop a draft Long-term Waste Management Plan 2021 to 2040.

Report:

1. Purpose

- 1.1 This report provides an update to Regional Council on the consultation and feedback received to date on the development of a new Long-term Waste Management Plan (Waste Plan) for the Regional Municipality of Durham (Region).
- 1.2 This report presents the proposed vision and objectives for Regional Council endorsement to be used as the framework for development of the Waste Plan.

2. Background

- 2.1 At its meeting of January 30, 2019, Regional Council directed staff to begin developing an updated Long-term Waste Management Plan 2021 to 2040 as part of the 2019 Solid Waste Management Servicing and Financing Study.
- 2.2 In 2019, staff developed a scope of work and obtained consulting services to lead consultation and drafting efforts for the Waste Plan.

- 2.3 Waste Plan development kicked-off in early 2020 with a consultation plan that included several in-person events with Regional and Local area municipality staff, Regional advisory groups and the public. Due to the Covid-19 pandemic, all consultation efforts were moved to on-line engagement and virtual events.

3. Previous Reports and Decisions

- 3.1 Report #2019-COW-3 “2019 - Solid Waste Management Servicing and Financing Study” directed staff to obtain consulting services and commence development of a Long-term Waste Management Plan 2021 to 2040 with a draft vision to continue and enhance the reduce, reuse and recycle principles and to incorporate using waste as a resource as a foundation of the plan.
- 3.2 Report #2020-COW-3 “Solid Waste Management: 2020 Strategic Issues and Financial Forecast” described the guiding principles for the Waste Plan and identified in general terms the consultation planned for 2020.
- 3.3 Report #2020-INFO-26 “Long-term Waste Management Plan 2021-2040 Development Schedule” provided Regional Council with an anticipated development schedule and milestones for the Waste Plan consultation and drafting.

4. Consultation

- 4.1 Staff launched consultation on the Waste Plan in April 2020 with a workshop for Regional staff. Regional employees from various departments participated in a virtual meeting to discuss current and future waste management challenges and potential solutions to challenges in the areas of policy, promotion and education, infrastructure and programs.
- 4.2 Following the Regional staff workshop, a similar workshop was held in May 2020 with staff representatives from local area municipalities. This workshop was informed by a survey, completed by attendees in advance of the workshop, regarding current and future challenges, waste management goals and objectives. There was general support by participants of the guiding principles, draft vision and objectives.

- 4.3 Waste staff also sought input from several Regional Advisory Committees through June to November 2020. Durham Environmental Advisory Committee, Durham Agricultural Advisory Committee, Durham Region Roundtable on Climate Change and Energy-from-Waste Waste Management Advisory Committee were provided a presentation on the draft vision and objectives for the Waste Plan, time for questions and answers and a request to complete a survey to identify their top waste management concerns and priorities. The survey also included opportunity for additional comment. The Energy-from-Waste Waste Management Advisory Committee also held a special meeting in November to develop committee comments.
- 4.4 A webpage for the Waste Plan was launched in late 2019 that provides project updates as available. The webpage provides a timeline for the Waste Plan development, project updates and links to background documents. There is also a Frequently Asked Question section and a dedicated email for residents to contact the Waste Plan development team with questions or suggestions.
- 4.5 An online, public virtual open house and survey was launched on August 19, 2020. The virtual open house provided information on the draft vision and objectives followed by a link to an online survey for participants to offer input on the guiding principles, draft vision and objectives. The survey also sought information regarding resident's waste management habits and areas where additional support to better manage waste is needed.
- 4.6 Between August 19 and November 8, 2020, there were 2,094 residents that completed the online survey. Most residents expressed agreement with the guiding principles and draft vision and objectives. Most of the comments received were suggestions for improvement of the existing waste collection system and questions about the Region's waste management system.
- 4.7 A virtual town hall was held on November 5, 2020 to provide an opportunity for the public to ask questions to staff in a live forum regarding the Waste Plan. The virtual town hall included a presentation on the draft vision and objectives and the feedback received to date. Following the presentation, participants were invited to submit questions via the chat feature in Microsoft Teams. In total, 305 residents participated in the virtual town hall. A recording of the event is available on the [Waste Plan](#) website.
- 4.8 A summary of consultation is provided in Attachment #1.

5. Waste Plan Guiding Principles, Vision and Objectives

- 5.1 The guiding principles, draft vision and objectives for the Waste Plan have been refined to reflect the input received during consultation. With Regional Council endorsement of the vision and objectives, staff will commence drafting the Waste Plan.
- 5.2 The Waste Plan will include background information regarding the Region's integrated waste management system, anticipated regulatory changes, and current and future waste management challenges.
- 5.3 The Waste Plan vision and objectives will be supported with specific targets for implementation and an Action Plan to focus efforts for the first five years and each five-year increment after that. The Action Plans will be assessed and refined every five years to guide the completion of the Waste Plan.

Guiding Principles

- 5.4 Regional Council approved guiding principles for the Waste Plan development as part of the 2020 Strategic Issues and Financial Forecast for the Waste Management Services Division:
 - a. Working with rapid and diverse population growth to ensure community vitality and innovate how the Region delivers cost effective waste management services to its communities;
 - b. Working in collaboration with producers and importers of designated products and packaging under "Extended Producer Responsibility" regulations and strategies to transition the full costs of managing these materials from municipalities to producers and importers;
 - c. Applying innovative approaches to repurposing the Region's waste streams and managing them as resources in a circular economy and developing local opportunities that contribute toward ensuring the Region's economic prosperity; and
 - d. Demonstrating leadership in sustainability to address the climate crisis by adopting new or adjust existing waste management programs and technologies and green energy solutions to reduce greenhouse gas emissions.

- 5.5 During consultation, over 70 per cent of stakeholders supported the guiding principles and provided no additional comment. Comments from some stakeholders suggested that explicit reference to reduce and reuse be included as a guiding principle.
- 5.6 As a result, Regional staff propose an additional guiding principle to highlight the importance of reduce and reuse for effective waste management and to simplify the wording of the remaining guiding principles. The updated wording for the guiding principles is proposed below:
- a. Emphasize reduce and reuse principles as the first step in reducing waste generation;
 - b. Deliver cost effective waste management services to a rapidly growing and diverse population;
 - c. Work with producers of designated products and packaging to implement “Extended Producer Responsibility” and adjust Region waste programs as required;
 - d. Apply innovative approaches to Region waste streams to manage waste as a resource in a circular economy; and.
 - e. Demonstrate leadership in sustainability to address the climate crisis by reducing greenhouse gas emissions from waste management activities.

Vision

- 5.7 Based on feedback received during the 2020 consultation, the following Waste Plan vision is recommended:
- a. Together, with our residents, we will reduce the amount of waste we create and manage the generated waste as a resource. We will build an innovative system, balancing financial needs and environmental sustainability.
- 5.8 During consultation, 94 per cent of stakeholders expressed support for the vision statement with multiple stakeholders suggesting the wording should be simplified.

Objectives

- 5.9 Based on the feedback received during the 2020 consultation, the following Waste Plan objectives are recommended:
- a. Engage with residents to build an understanding and awareness of the 5Rs (Rethink, Reduce, Reuse, Recycle and Recover) and the Region's waste management programs and services;

- b. Reduce the quantity of waste we create;
 - c. Increase diversion of waste from disposal and support the Circular Economy;
 - d. Support the Region's greenhouse gas reduction and climate change mitigation efforts; and
 - e. Protect or improve water, land, and air quality in Durham Region.
- 5.10 A new objective has been added to increase understanding of the 5Rs: Rethink, Reduce, Reuse, Recycle and Recover, and to improve residents' awareness of Region waste management services that support each of these areas. Rethink will be formally added to the Region's waste hierarchy to emphasize the importance of resident decisions prior to waste reduction.
- 5.11 Approximately 90 per cent of residents supported the objective of reducing the quantity of waste to be managed. The wording of this objective generated the most questions for clarification of what is meant by reducing waste quantities. The wording has been modified to indicate the objective is intended to reduce the quantity of waste created. This objective has also been reordered as the second objective to reflect the importance of reduce in the waste hierarchy.
- 5.12 As a result of the online survey, we learned that 97 per cent of residents support the objective focused on waste diversion and the Circular Economy.
- 5.13 Approximately 95 per cent of residents support the objective to reduce the amount of greenhouse gas generated and improve climate change mitigation efforts.
- 5.14 The objective addressing protection of air, land and water quality received 98 per cent support from residents.

Waste Plan Development Framework

- 5.15 Some initiatives are already underway or being planned that support the identified objectives. Attachment #2 illustrates the Waste Plan Framework and how current Region projects and legislative initiatives fit into the Waste Plan.
- 5.16 Projects such as the Mixed Waste Pre-sort and Anaerobic Digestion facility support the diversion of waste from disposal objective and the climate change mitigation initiatives. Specific targets will be developed to further support the implementation of the AD facility. Specific targets could increase organics diversion with supporting actions such as re-launching an enhanced Green Bin program for curbside collection and education on organics reduction and diversion.

- 5.17 Other initiatives include the transition of the Blue Box to Extended Producer Responsibility in 2023 or 2024. The transition will support the Region's objective of increased diversion and enhancing the Circular Economy. Actions will be developed to support the smooth transition of this program.
- 5.18 Other initiatives that will be considered as targets or actions in the Waste Plan to support the identified objectives include reducing single use plastics, enhanced resident education and improving the accessibility of Waste Management Facilities and diversion programs.

6. Relationship to Strategic Plan

- 6.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Goal 1.2 Increase waste diversion and resource recovery
 - b. Goal 5.1 Optimize resources and partnerships to deliver exceptional quality services and value
 - c. Goal 5.4 Drive organizational success through innovation, a skilled workforce, and modernized services

7. Conclusion

- 7.1 Extensive public consultation has taken place during the early stages of the Waste Plan development with over 2,200 contacts made.
- 7.2 The proposed vision and objectives reflect the public input and will be expanded with targets and an Action Plan to support the implementation of the vision.
- 7.3 For additional information, contact: Gioseph Anello, Director Waste Management Services, at 905-668-7711, extension 3445.

8. Attachments

Attachment #1: Summary of Consultation

Attachment #2: Long-term Waste Management Plan Development Framework

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

LTWMP Consultation Summary

Durham Region (Region) developed its initial Long-Term Waste Management Strategy (LTWMS) in 1999 to cover the twenty years to 2020. The Region is now undertaking the development of a Long-Term Waste Management Plan (Waste Plan) for the next twenty years (2021 to 2040). Development of the Waste Plan includes a significant consultation component to ensure feedback from various stakeholders including the public is considered. Starting in the late spring through fall 2020, four groups of consultation were held which included Regional staff, Local Area Municipalities (LAMs), Regional Advisory Committees and the public to get feedback on current and future waste management challenges as well as the proposed vision and objectives of the Waste Plan.

Stakeholders Consulted

There were twenty-one (21) Regional staff members, twenty (20) Local Area Municipality (LAM) representatives, four (4) Regional Advisory Committees and 2,094 public respondents consulted throughout 2020, shown in the table below.

| Stakeholder | Date of meeting |
|---|------------------------------------|
| Regional Staff | April 16, 2020 |
| Local Area Municipalities | May 28, 2020 |
| Regional Advisory Committees | - |
| Durham Agriculture (DAAC) | June 9, 2020 |
| Durham Environmental (DEAC) | June 18, 2020 |
| Durham Region Roundtable on Climate Change (DRRCC) | June 19, 2020 |
| Energy from Waste - Waste Management Advisory Committee (EFW-WMAC) – two meetings | July 15, 2020 November 18, 2020 |
| Public (Virtual open house, online survey and one virtual town hall event) | August 19 to November 8, 2020 |

Consultation Format

The consultation formats with Regional Staff, LAMs and Regional Advisory Committees were similar including surveys, discussions, activities and question/answer sessions. All consultation was originally planned to be in-person, live events. However, due to COVID-19, the consultations were converted to on-line formats to maintain physical distancing. The following are more details of each consultation event.

Regional Staff Workshop

The staff workshop was hosted by HDR via Webex with twenty-one (21) Regional staff participating. Staff from different departments within the Regional Municipality of Durham attended including from solid waste, planning, communications, facilities, contract management, and operations/public works.

In advance of the staff workshop, HDR developed a workbook with a series of exercises on current and future challenges. Responses from 17 staff were received. These responses were discussed at the workshop. Attendees were also asked to provide input on the proposed vision statement and objectives for the Waste Plan. After the presentation, attendees were asked to complete a survey to propose key messages for the Waste Plan.

Local Area Municipalities

The LAM workshop was hosted by HDR via Webex with twenty (20) local area municipality staff participating. Staff from seven of the eight local area municipalities within the Regional Municipality of Durham attended.

Participants were asked to complete a short survey in advance of the workshop to aid discussion on the waste management needs of the LAMs, current and future challenges, alignment with the Region's proposed objectives and vision, and preferred method of future communications.

Regional Advisory Committees

Regional Advisory Committees were given a presentation providing an overview of the results from the Staff Workshop and Local Area Municipality (LAM) Workshop hosted prior to the committee meetings. The committees were asked to provide input on the proposed vision, objectives and key considerations for the Waste Plan. A survey was provided to each committee member after the meeting.

- The Durham Agriculture Advisory Committee meeting was attended by twelve (12) members of the committee and five (5) staff members from the Region.
- The Durham Environmental Advisory Committee meeting was attended by ten (10) members of the committee and eight (8) staff members from the Region.
- The Durham Region Roundtable on Climate Change Committee meeting was attended by fourteen (14) members of the committee and nine (9) staff members from the Region.
- The Waste Management Advisory Committee meeting in July was attended by six (6) members of the committee, seven (7) Staff members from the Region and three (3) consultants from HDR.
- The Waste Management Advisory Committee meeting in November was attended by six (6) members of the committee and five (5) Staff members from the Region.

Public

A virtual open house and survey was launched in August 2020 to solicit feedback from the public. The virtual open house provided background information on the Waste Plan, proposed vision and objectives and examples of what the Waste Plan could include. Participants were invited to complete an online survey to offer input on the proposed guiding principles, vision and objectives. The survey also asked respondents about waste management habits and areas where additional support to better manage waste is needed. The survey was available until November 8 to allow residents time to provide input.

A virtual town hall was held on November 5, 2020 to provide an opportunity for the public to ask questions to Regional staff in a live forum regarding the Waste Plan. The virtual town hall included a brief presentation on the proposed guiding principles, vision, objectives and the feedback received to date. Following the presentation, participants were invited to submit questions via the chat feature in Microsoft Teams which were answered live by Waste Management staff. The virtual town hall resulted in 305 unique views with residents joining the meeting for various amounts of time throughout the session.

In addition, throughout the Plan development, the public was encouraged to reach out to Regional staff by email. In total, 38 emailed comments were received and recorded in the Record of Consultation.

What We Heard

The feedback received from the various consultation events in 2020, including regarding the guiding principles, vision and objectives proposed by the Region, is summarized below.

- Regional Staff Feedback
 - Include policy changes that align with Extended Producer Responsibility (EPR), improve collection and processing operations and reduce barriers to improve participation.
 - Improve diversion through program enhancements and development of new projects, include producers/importers in research and development of new technologies and best practices and improve participation/awareness of waste reduction and Circular Economy.
 - Enhance promotion and education (P&E) by improving communication/education, include other languages and target diversion problem locations.
- Local Area Municipalities
 - Focus on improving diversion from multi-residential buildings and in high population density areas.
 - Maximizing reduction, reuse and diversion, the inclusion of zero waste/ circular economy were the most important objectives, followed by considering the environmental/climate change impact.
 - Develop new/changes to policy/bylaws to tackle EPR and the 4Rs.
 - Improve P&E of waste management to the public.
 - Most agreed that the Region's proposed objectives and proposed vision aligned with theirs.
- Regional Advisory Committees
 - Increase P&E to encourage participation and improve multi-residential diversion initiatives.

- Reduction/ Reuse/ Zero Waste were the most important objectives and should also be included within the guiding principles.
- The EFW - Waste Management Advisory Committee suggested that reduce and reuse be added to the guiding principles.
- Most Regional Advisory Committee members did not have specific comments on the proposed guiding principles, vision, or the proposed objectives.
- Public
 - Increase amount of Promotion and Education, promote the 4Rs with an emphasis on reduction, implement aggressive waste diversion methods, changing frequency of curbside collection, switching curbside collection boxes to carts, and improve diversion overall (including from commercial and multi-residential buildings).
 - 70% of respondents replied that there were no barriers to using the Green Bin program and 85% of respondents felt that there were no barriers to the Blue Bin program.
 - The public were asked to comment on the four guiding principles. When asked if there were any other guiding principles that should be considered, 73% of survey respondents indicated “no”, provided favourable comments to the existing guiding principles or did not provide any comment.
 - A majority (~94%) of the respondents agreed that they support the proposed vision with additional comments relating to more waste reduction, encourage use of waste-as-a-resource, making industry/ businesses accountable for their waste and keeping costs affordable.
 - A majority (over 89%) of the respondents agreed that they support the proposed new Waste Plan objectives with additional comments to improve promotion and education, changes to curbside collection, cost reductions, imposing financial incentives, and encouraging reducing/ reuse/ circular economy practices.

Long-Term Waste Management Plan

Development and Update Framework



- Emphasize reduce and reuse principles as the first step in reducing waste generation.
- Deliver cost effective waste management services to a rapidly growing and diverse population.
- Work with producers and importers of designated products and packaging to implement “Extended Producer Responsibility” and adjust Region waste programs as required.
- Apply innovative approaches to Region waste streams to manage them as resources in a circular economy.
- Demonstrate leadership in sustainability to address the climate crisis by reducing greenhouse gas emissions from waste management activities.

PHASE 1:

PENDING
COUNCIL
APPROVAL

- Together, with our residents, we will reduce the amount of waste we create and manage the generated waste as a resource. We will build an innovative system, balancing financial needs and environmental sustainability.

- Engage with residents to build an understanding and awareness of the 5Rs (Rethink, Reduce, Reuse, Recycle, Recover) and the Region’s waste management programs and services.
- Reduce the quantity of waste we create.
- Increase diversion of waste from disposal and support the Circular Economy.
- Support the Region’s greenhouse gas reduction and climate change mitigation efforts.
- Protect or improve water, land, and air quality in Durham Region.

- Increase organics diversion with Mixed Waste Pre-Sort & Anaerobic Digestion Facility
- Support Federal phase-out of select single-use plastics
- Support Provincial transition of Blue Box Program
- Improve access to Region Waste Management Facilities

PHASE 2:

WASTE PLAN
DEVELOPMENT
AND CONSULTATION
(TO BE COMPLETED)

- Re-launch enhanced Green Bin Program
- Phase-out select single-use plastics at municipal facilities
- Targeted education campaign to support transition of the Blue Box Program
- Review hours of operation for Waste Management Facilities

GUIDING PRINCIPLES

VISION

OBJECTIVES

POTENTIAL
TARGETS

POTENTIAL
ACTIONS

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: #2021-W-1
Date: January 6, 2021

Subject:

Expropriation of Lands Required for the Proposed Bus Rapid Transit project along Highway 2 (Kingston Road), in the City of Pickering, Town of Ajax and Town of Whitby

Recommendation:

That the Works Committee recommends to Regional Council:

- A) That authority be granted to Regional Municipality of Durham staff to initiate expropriation proceedings where necessary with respect to the property requirements for the proposed Bus Rapid Transit project (Project) along Highway 2 (Kingston Road) as are generally depicted in Attachment #1, and as such other property requirements as may be determined and identified by Regional Municipality of Durham staff required for the Project;
- B) That authority be granted to the Regional Clerk and Regional Chair to execute any notices and forms as may be statutorily mandated by the Expropriations Act R.S.O. 1990, c. E.26 to give effect to Recommendation C) in this report, including the Notices of Application of Approval to Expropriate;
- C) That authority be granted to Regional Municipality of Durham staff to serve and publish Notices of Application for Approval to Expropriate the property requirement as described in Recommendation A) in this Report, and to forward to the Chief Inquiry Officer any requests for hearing that are received, to attend the hearings to present the Regional Municipality of Durham's position, and to report the Inquiry Officer's recommendations to Regional Council for its consideration; and
- D) That all agreements and reports required for amicable property acquisitions and all agreements and reports required for settlements pursuant to the Expropriations

Act RSO 1990, c. E.26 related to the Bus Rapid Transit Project approved in accordance with the Delegation of Authority By-Law 29-2020 or by Regional Council remain confidential in accordance to Section 239 (2)(c) of the Municipal Act as it relates to a proposed or pending acquisition or disposition of land for Regional Corporation purposes, and only be released publicly by the Commissioner of Works once all claims for compensation have been resolved on a complete and full and final basis for the Bus Rapid Transit Project where appropriate.

Report:**1. Purpose**

- 1.1 The purpose of this report is to obtain approval to expropriate property requirements needed for Bus Rapid Transit (BRT) if the Regional Municipality of Durham (Region) is unable to obtain amicable agreements through negotiations with property owners.

2. Background

- 2.1 The Region submitted 14 applications under the Investing in Canada Infrastructure Program (ICIP) Public Transit stream in July 2019. Two of the applications for the creation of dedicated BRT lanes on Highway 2 through Ajax, Whitby and Oshawa have received approval and funding. A third application for median transit lanes on Highway 2 through the City of Pickering has been approved by the Province and is pending approval by the Federal Government. Land acquisition costs are not eligible under the ICIP parameters.
- 2.2 In addition to 24 property acquisitions underway through advance funding of \$5 million provided as part of the 2018 Roads Capital Budget, land requirements from approximately 140 properties have been identified for the above noted ICIP projects. Land acquisition will be completed in phases, with the first phase involving 66 properties.

3. Previous Reports and Decisions

- 3.1 On June 13, 2018, Regional Council approved Report #2018-COW-101 that permitted that all BRT related property acquisition agreements and settlements approved by Regional Council remain confidential until such time as all property acquisition and related claims have been settled on the BRT project.
- 3.2 On November 6, 2019, TEC received Report #2019-DRT-20 the General Manager of DRT summarizing the project applications submitted by the Region for ICIP

funding. The report identified a total of 14 projects involving rapid transit advancement, fleet renewal, safety and accessibility improvements and modernization and innovation initiatives.

- 3.3 On January 14, 2020, Finance and Administration Committee received Report #2020-F-01 which further outlined the costs related to the Region's ICIP project applications and provided an initial financing plan for the Region's share of program eligible and ineligible costs.
- 3.4 On October 28, 2020, Regional Council approved the recommendations in Report #2020-DRT-20 and companion Report #2020-F-19 requesting pre-budget approval of the Region's share of the 2021 project costs and financing for the property acquisition to advance the Highway 2 BRT lanes in Ajax, Whitby and Oshawa, and the Pickering Median BRT project.

4. Property Acquisitions

- 4.1 The delayed roll-out of the ICIP to 905-area transit agencies has reduced the number of available construction seasons from ten to seven with projects to be completed ahead of the October 31, 2027 funding deadline. Land acquisition is a cornerstone activity for the BRT road related projects.
- 4.2 While the Region attempts to obtain land requirements through amicable negotiations, there are situations where negotiations become lengthy or an agreement cannot be reached. There are very tight timelines for this project related to land acquisition which will require staff to have flexibility in approaches, including the ability to commence expropriation proceedings to ensure these timelines are met.

5. Relationship to Strategic Plan

- 5.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
 - a. Environmental Sustainability Goal 1.4: Demonstrate leadership in sustainability and addressing climate change.
 - b. Environmental Sustainability Goal 1.5: Expand sustainable and active transportation.
 - c. Economic Prosperity Goal 3.3: Enhance communication and transportation networks to better connect people and move goods more effectively.

6. Conclusion

- 6.1 Regional Municipality of Durham staff will negotiate with the property owners in an attempt to acquire the necessary properties. Should these negotiations fail, this approval will permit staff to commence expropriation proceedings to ensure that the acquisition timelines are met allowing this project to proceed to construction.
- 6.2 If Regional Municipality of Durham staff exercise the option of commencing expropriation pursuant to the authority being sought through this report, staff will report back further to Regional Council to seek authority for the next stage which will be to expropriate the property requirements and proceed to serve the next set of notices on affected property owners as would be statutorily mandated by the Expropriations Act R.S.O. 1990, c. E.26.
- 6.3 This report has been reviewed by the Legal Department.
- 6.4 For additional information, contact: Jenni Demanuele, Director, Business Services, at 905-668-7711, 3456.

7. Attachments

Attachment #1: Map of Properties

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



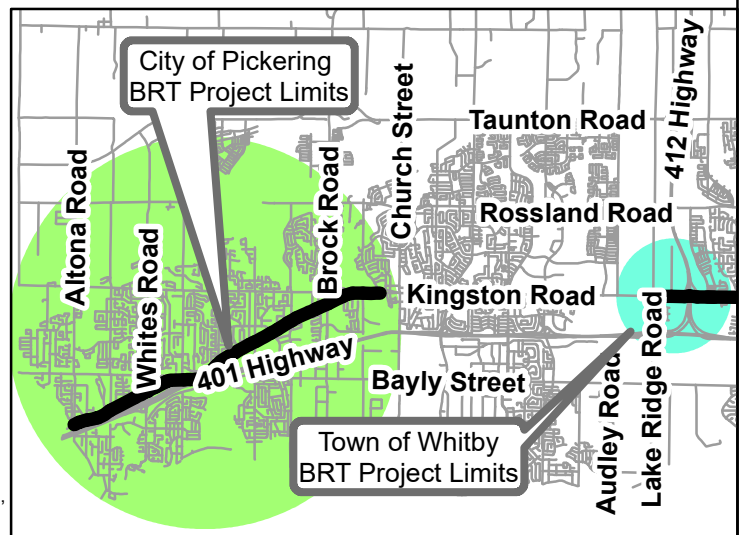
Bus Rapid Transit-Pickering Project Limits



Bus Rapid Transit-Whitby Project Limits

- Kingston Road, Regional Highway #2-Project Limits-Pickering
- Dundas Street, Regional Highway #2-Project Limits-Whitby

**Attachment #1: Property of Interest
Bus Rapid Transit in the
Town of Whitby and in
the City of Pickering**



GIS Data: Produced by Durham Region, 2019.
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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: #2021-W-3
Date: January 6, 2021

Subject:

Offer to Renew Lease Agreement with 2537613 Ontario Limited for Premises Occupied by the Durham Regional Police Services Located at 19 Courtice Court, in the Municipality of Clarington

Recommendation:

That the Works Committee recommends to Regional Council:

- A) That the Offer to Renew Lease Agreement with 2537613 Ontario Limited for the premises, being the land and buildings including furnishings of the building located at 19 Courtice Court, in the Municipality of Clarington, containing approximately 2,226.81 square metres (23,970 square feet), be approved on the following terms and conditions:
- i) The term to be for a period of five (5) years commencing January 1, 2021 and ending December 31, 2025;
 - ii) The Regional Municipality of Durham to have the right to terminate the lease without penalty at any time after the second year upon providing six (6) months prior written notice;
 - iii) The annual basic rent for the period of January 1, 2021 to December 31, 2025 to be \$143,820*, based on a rate of \$64.58* per square metre (\$6.00 *per square foot) per annum;

- iv) The Regional Municipality of Durham to be responsible for all operating costs and property taxes for the leased premises at an estimated annual amount of \$296,000; and
- B) The Regional Chair and Clerk be authorized to execute all documents associated with the Offer to Renew Lease agreement.
-

Report:**1. Purpose**

- 1.1 The purpose of this report is to obtain approval to renew the lease with 2537613 Ontario Limited for the premises at 19 Courtice Court in the Municipality of Clarington (Clarington) as per the terms and conditions outlined herein.
- 1.2 Dollar amounts followed by an asterisk (*) exclude applicable taxes.

2. Background

- 2.1 The Durham Regional Police Service have occupied 19 Courtice Court, in Clarington since November 1994. The site consists of 1.57 hectares (3.89 acres) of land including an industrial style building containing approximately 2,226.81 square meters (23,970 square feet). The building contains 464.50 square metres (5,000 square feet) of finished and furnished office space on two levels, together with a storage area and an office plus the garage area. The majority of the site is enclosed with a chain link security fence.
- 2.2 The renewal of the leasing arrangement for this facility will provide DRPS with continued accommodation for the fleet, quartermaster, property and canine units until they are relocated to the new Regional Support Centre proposed as part of the Clarington Police Complex – Phase 2 project.

3. Previous Reports and Decisions

- 3.1 Works Committee Report #2015-W-99 approved the most recent renewal of the lease for this space with a term commencing January 1, 2016, expiring December 31, 2020.

4. Discussion

- 4.1 The proposed lease renewal is for a period of five years, with the Region having the right to terminate the lease at any time after the second year upon providing to the Landlord six months prior written notice at no additional cost.
- 4.2 The annual rental rate remains the same as negotiated in the previous renewal of lease. The basic rent for the period January 1, 2021 to December 31, 2025 will be \$143,820*, based on a rate of \$64.58* per square metre (\$6.00* per square foot) per annum.
- 4.3 In addition to basic, rent the Region will be responsible for all operating costs and property taxes estimated at \$296,000 annually for the leased premises.

5. Financing

- 5.1 Financing for this lease renewal will continue to be provided within the Durham Regional Police Services' annual Business Plan and Budget.
- 5.2 Since approval of this lease renewal requires a long-term financial obligation for which payment is required beyond the term for which Council was elected, the Regional Treasurer has updated the Region's financial debt and obligation limit. In accordance with Section 4 of the Ontario Regulation 403/02, the Region's Treasurer has calculated an updated long-term debt/financial limit and has determined that the limit has not been exceeded. Therefore, this lease does not require the approval of the Ontario Municipal Board.

6. Relationship to Strategic Plan

- 6.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
 - a. Community Vitality Goal #2.2: Enhance community safety and well-being.
 - b. Service Excellence Goal #5.1: Optimize resources and partnerships to deliver exceptional quality services and value.

7. Conclusion

- 7.1 The Durham Regional Police Services has advised that they wish to renew the lease at 19 Courtice Court, in the Municipality of Clarington. It is recommended that the lease be renewed based on the above noted terms and conditions.

7.2 This report has been reviewed by the Finance Department.

7.3 For additional information, contact Jenni Demanuele, Director, Business Services, at 905-668-7711, extension 3456.

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: #2021-W-4
Date: January 6, 2021

Subject:

Project Update and Additional Engineering Services for the Proposed Whitby Water Supply Plant Expansion, in the Town of Whitby

Recommendation:

That the Works Committee recommends to Regional Council:

- A) That commitments to AECOM Canada Ltd. be authorized for costs associated with Phase 2 for additional work required outside of the original scope of work in the amount of \$2,202,185*, over and above the approved Phase 1-3 upset limit of \$4,082,140* resulting in a total revised upset limit not to exceed \$6,284,325*, to be funded from within the approved project budget of \$9,850,000*; and
 - B) That the Commissioner of Finance be authorized to execute the amendment to the existing engineering services agreement.
-

Report:

1. Purpose

- 1.1 The purpose of this report is to provide a project update, to authorize the original commitment of \$4,082,140* for the Phase 1 to 3 works, and to obtain approval to increase the upset limit of the engineering services agreement with AECOM Canada Ltd. (AECOM), in the amount of \$2,202,185* for additional work required outside of the original scope of work for the proposed Whitby Water Supply Plant (WSP) Expansion, in the Town of Whitby.
- 1.2 Dollar amounts followed by an asterisk (*) are including disbursements and before applicable taxes.

2. Background and Project Update

- 2.1 The Regional Municipality of Durham (Region) completed a Class Environmental Assessment (EA) Study in 2005 to provide additional capacity at the Whitby WSP. The report recommended expanding the WSP on the vacant property owned by the Town of Whitby located on the north side of Water Street.
- 2.2 An assignment for engineering services to conduct the preliminary and detailed design was awarded to AECOM in April 2014 after a pre-qualification and request for proposal procurement process. AECOM undertook extensive geotechnical and groundwater investigations and concluded that poor soils and groundwater conditions exist on the vacant property. Following the investigations, staff did not recommend the site for the WSP expansion.
- 2.3 An addendum to the EA was completed in 2018 that recommended an alternate proposal to provide additional plant capacity on the existing property owned by the Region on the south side of Water Street.
- 2.4 As part of Phase 1 works AECOM confirmed the preferred treatment process. The Region is prepared to authorize Phase 2 and 3 preliminary and detailed design services to AECOM including tender documentation preparation in accordance with the terms set out in the Request for Proposal RFP-675-2013 at a cost of \$2,395,735. Additional work is required outside of the original scope of work in Phase 2 and 3 for the proposed WSP expansion as the original scope included the majority of the works on the north side of Water Street.

3. Previous Reports and Decisions

- 3.1 Works Committee Report #2014-W-33 received Regional Council approval and awarded the Request for Proposal #675-2013 to AECOM, with upset limits of the different phases of the project to be funded from the approved project budget, as follows:
 - a. Phase 1 – engineering services related to detailed design at an upset limit not to exceed \$1,236,405*;
 - b. Phase 2 and 3 – preliminary and detailed design at an upset limit not to exceed \$2,395,735*; and
 - c. Phase 4, 5 and 6 – construction inspection and contract administration at an upset limit not to exceed \$4,117,617*.

3.2 Works Committee Report #2015-W-52 received Regional Council approval for the costs associated with additional engineering services for Phase 1, in the amount of \$450,000*, over and above the approved upset limit of \$1,236,405*.

4. Additional Engineering Services

Industrial Raw Water Supply Improvements

4.1 A new Industrial Raw Water (IRW) pumping system is required and needs to be relocated to the existing low lift pumping station building to provide an available footprint for the new WSP treatment building. The existing IRW pumping station system will be demolished once the new IRW pumping system is operational.

4.2 The engineering services for the detailed design and construction period services, at an estimated cost of \$635,394*, includes the following:

- Detailed design of the IRW pumping station improvements
- Intake capacity update
- Coordination with industrial raw water end users
- Obtain permits and approvals
- Tender document preparation and support
- Contract administration during construction and commissioning, as-built drawing preparation and operator training
- Post-construction warranty report
- Assessment of outfall improvements and recommendation of design for remedying flooding problems at the discharge chamber of the existing WSP

4.3 The engineering design is expected to be completed by third quarter of 2021. Completion of construction is expected in the second quarter of 2022.

Preliminary Design Services for the Whitby Water Supply Plant Expansion

4.4 The original Request for Proposal called for the WSP expansion to be constructed on a greenfield property north of Water Street across from the existing WSP. Subsequent geotechnical and groundwater investigations concluded that the north property was not suitable for the planned expansion. The Region considered the available space on the south side of Water Street to the west of the existing WSP

and determined that it would be a suitable alternative however additional engineering and planning would be required as documented by the Class EA Addendum.

4.5 To ensure a future facility which would be compatible with the Whitby waterfront, a design charrette was conducted which included Regional and Town of Whitby staff. Following the successful design charrette, the scope of work was amended to support preliminary design to include the following project requirements:

- Membrane gravity filtration business case
- Climate Lens Assessment
- Shoreline improvements
- Architectural program review
- Geotechnical and hydrogeological investigations
- Condition assessment review for existing plant
- Light Detection and Ranging scanning

4.6 AECOM has submitted a revised proposal at the estimated fee of \$1,566,791* for the additional scope and effort for the Phase 2 preliminary design services:

- Project management
- Special meetings and workshops
- Technical memoranda to support the preliminary design
- Class EA Addendum updates
- Public Educational Outreach and Engagement
- Water Street Municipal Class EA liaison and coordination
- Equipment pre-selections of membrane gravity filtration with dissolved air floatation, UV disinfection and advanced oxidation process, and residuals thickening equipment
- Pilot testing of membrane gravity filtration with dissolved air floatation
- Completion of the preliminary design report.

4.3 The total amount of the scope change for the additional services of IRW Supply Improvements and Pre-Design services is \$2,202,185*.

5. Financial Implications

5.1 Section 14.2.2 of the Budget Management Policy requires the approval of Regional Council for unbudgeted capital expenditures in excess of \$50,000. The addition of the Industrial Raw Water supply improvement works and the change of scope to the project exceeds the threshold limit and requires Regional Council approval.

5.2 The funding for the additional commitments to AECOM in the amount of \$2,202,185* is to be provided from the contingency allowance within the approved project budget of \$9,850,000 (Project D9944).

| Project Component | Approved Total Project Costs (\$) | Proposed Revisions (\$) | Revised Total Estimated Project Costs (\$) |
|---|-----------------------------------|-------------------------|--|
| EA, studies, survey, land acquisition | 733,900 | | 733,900 |
| Engineering – Phase 1 | 1,236,405 | | 1,236,405 |
| Change of Scope 1 | 450,000 | | 450,000 |
| Phases 2 & 3 | 2,395,735 | | 2,395,735 |
| Change of Scope 2 | | | |
| 1) IRW Supply Improvement | | 635,394 | |
| 2) Preliminary Design Services | | 1,566,791 | 2,202,185 |
| Future Project Activities and Contingency | 5,033,960 | (2,202,185) | 2,831,775 |
| Total Project Cost | <u>9,850,000</u> | <u>0</u> | <u>9,850,000</u> |

6. Relationship to Strategic Plan

- 6.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic plan:
- a. Goal 1 – Environmental Sustainability
 - b. Goal 2 – Community Vitality
 - c. Goal 3 – Economic Prosperity
 - d. Goal 5 – Service Excellence

7. Conclusion

- 7.1 It is recommended that the existing Engineering Services Agreement with AECOM Canada Ltd. be amended for additional engineering services outside of the original scope of work for the preliminary design of the Whitby WSP expansion in the amount of \$2,202,185*, from the previous approved upset limit of \$4,082,140*,, resulting in a revised upset limit not to exceed \$6,284,325*, and that the financing be provided from within the approved project budget.
- 7.2 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the financial recommendations.
- 7.3 For additional information, contact: Mike Hubble, Manager of Environmental Services Design, at 905-668-7711, extension 3460.

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