

## CITY OF VAUGHAN

### **EXTRACT FROM COUNCIL MEETING MINUTES OF DECEMBER 11, 2017**

Item 6, Report No. 14, of the Finance, Administration and Audit Committee, which was adopted without amendment by the Council of the City of Vaughan on December 11, 2017.

#### **6 CLEAN WATER AND WASTEWATER FUND (CWWF) BUDGET AMENDMENT-STORMWATER MANAGEMENT POND CLEANOUTS**

The Finance, Administration and Audit Committee recommends approval of the recommendation contained in the following report of the Deputy City Manager of Public Works and the Director of Environmental Services, dated December 4, 2017:

##### **Recommendation**

The Deputy City Manager of Public Works and the Director of Environmental Services, in consultation with Director of Financial Services – Deputy Treasurer and the Director of Procurement Services, recommends:

1. That the approved budget in capital project WW-2546-17- Rehabilitation of Four Stormwater Ponds to restore design volumes be increased by \$ 685,669 funded from Stormwater Reserves;
2. That the approved budget in capital project ~~WW-2551-17~~ ~~WW-2556-17~~ Rehabilitation of Sugar Bush Stormwater Pond to restore design volumes be increased by \$ 110,240 funded from Stormwater Reserves;
3. That the approved budget in capital project EV-2112-17- Rehabilitation of Fossil Hill Stormwater Pond to restore design volumes be increased by \$ 472,795.40 funded from Stormwater Reserves; and
4. That inclusion of the matter on a Public Committee of Council agenda with respect to amending the capital budget as identified above be deemed sufficient notice pursuant to Section 2(1)(c) of By-Law 394-2002, as amended.

##### **Contribution to Sustainability**

Stormwater management pond cleanouts directly support *Green Directions Vaughan* Objective 1.3: To support enhanced standards of stormwater management at the City and work with others to care for Vaughan's watersheds.

##### **Economic Impact**

Based on tender results, the current approved budgets in the capital projects WW-2546-17- Rehabilitation of Four Stormwater Ponds to restore design volumes, ~~WW-2556-17~~ Rehabilitation of Sugar Bush Stormwater Pond to restore design volumes and 2112-17- Rehabilitation of Fossil Hill Stormwater Pond are not sufficient to fund the cost of the work.

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The additional funds required in each project are summarized in the table below. Sufficient funds exist within the Stormwater Reserve.

<b>Capital Budget Amendment Summary</b>			
<b>Capital Project</b>	<b>WW-2546-17</b>	<b>WW-2556-17</b>	<b>EV-2112-17</b>
<b>Total estimated cost</b>	<b>1,239,229</b>	<b>198,700</b>	<b>637,905</b>
Less: Current Approved Budget	572, 560	88,460	165, 119.80
<b>Budget Amendment Required</b>	<b>666,669</b>	<b>110,240</b>	<b>472,795.40</b>
<b>Tax (1.76%)</b>	\$ 1,249,704		
<b>Administration fee (3%)</b>	59,486		
<b>Total</b>	<u>39, 276</u>		
	<b>1,348,466</b>		
<b>Funding Source:</b>			
Stormwater Reserve	\$ 1,348,466		
Contribution from CWWF	671,157		
Approved capital project amounts	154,982		

Once the projects are completed, the capital projects accounts will be closed and any funds remaining in the capital projects will be returned to their original budget sources.

**Communications Plan**

All six ponds are supported by the Clean Water and Wastewater Fund which has specific requirements to communicate the funding source of the project through signage and other communication means.

**Purpose**

The purpose of this report is to seek Council approval to increase the capital budget of three stormwater pond cleanout projects covering six (6) ponds.

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##### **Background - Analysis and Options**

Bid responses received for all three projects exceed previously approved budget amounts. The initial estimates of the pond cleanouts in August 2016 were based on ponds of equal size rather than bathymetric surveys. This methodology provided reasonable budget estimates in the past provided that the comparable ponds were relatively the same age and similar characteristics in terms of drainage area.

The bathymetric surveys completed in June 2017 confirmed that sediment volumes were often 50 % higher than originally estimated. The volume of sediment from the bathymetric surveys were included in the tender document so prospective proponents could bid on accurate estimates of sediment volume. In addition, market prices for completing stormwater pond cleanout which have risen between 30-40 % in the past two years. For example, the cost per cubic metre of sediment removed was \$ 123 in Q4, 2015 for English Daisy Pond compared to an average cost of \$163 for Audia Court Pond, Larissa and Fairfax Pond in q4, 2017.

Should the costs to cleanout stormwater ponds continue to rise, Environmental Services will need to refine the criteria for stormwater pond cleanouts in order to keep within the pond maintenance budget established by our stormwater funding model.

The Clean Water and Wastewater Fund is contributing \$ 671,157.10 to the cleanout of the six stormwater management ponds. It would be advantageous to move forward with three projects at this time to lessen the future financial impact to the City.

In order to maintain the effectiveness of the stormwater management pond, regular sediment removal is necessary. Neglecting sediment removal will impair downstream water quality and the health of the watershed in our area. As the Ministry of Environment and Climate Change ramps up compliance and enforcement activities related to stormwater management, the City of Vaughan must demonstrate due diligence with key components of our stormwater management system including stormwater ponds.

##### **Relationship to Term of Council Service Excellence Strategy Map (2014-2018)**

Stormwater pond cleanouts support the Term of Council Priorities:

- Continue to cultivate an environmentally sustainable city
- Invest, renew and manage infrastructure and assets

##### **Regional Implications**

There are no Regional implications with the adoption of this report.

##### **Conclusion**

Staff recommends that an increase to the approved budgets in WW-2546-17- Rehabilitation of Four Stormwater Ponds to restore design volumes, WW-2556-17- Rehabilitation of Sugar Bush Stormwater Pond to restore design volumes and EV-2112-17- Rehabilitation of Fossil Hill Stormwater Pond to restore design volumes be approved to provide sufficient funds to award the tender contract for the cleanout work.

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**Attachments**

N/A

**Report prepared by:**

Chris Wolnik, Manager, Wastewater and Stormwater Services, ext. 6152

**CWWF BUDGET AMENDMENT-STORMWATER MANAGEMENT POND CLEANOUTS****Recommendation**

The Deputy City Manager of Public Works and the Director of Environmental Services, in consultation with Director of Financial Services – Deputy Treasurer and the Director of Procurement Services, recommends:

1. That the approved budget in capital project WW-2546-17- Rehabilitation of Four Stormwater Ponds to restore design volumes be increased by \$ 685,669 funded from Stormwater Reserves;
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3. That the approved budget in capital project EV-2112-17- Rehabilitation of Fossil Hill Stormwater Pond to restore design volumes be increased by \$ 472,795.40 funded from Stormwater Reserves; and
4. That inclusion of the matter on a Public Committee of Council agenda with respect to amending the capital budget as identified above be deemed sufficient notice pursuant to Section 2(1)(c) of By-Law 394-2002, as amended.

**Contribution to Sustainability**

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**Economic Impact**

Based on tender results, the current approved budgets in the capital projects WW-2546-17- Rehabilitation of Four Stormwater Ponds to restore design volumes, WW-2556-17- Rehabilitation of Sugar Bush Stormwater Pond to restore design volumes and 2112-17- Rehabilitation of Fossil Hill Stormwater Pond are not sufficient to fund the cost of the work.

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#### **Conclusion**

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#### **Attachments**

N/A

#### **Report prepared by:**

Chris Wolnik, Manager, Wastewater and Stormwater Services, ext. 6152

Respectfully submitted,

Stephen Collins, P. Eng  
Deputy City Manager, Public Works

Jennifer Rose  
Director, Environment Services