



## **Staff Report PW2021-042**

**Title of Report:** PW2021-042 Release of Dundalk Water Tower Request For Tender

**Department:** Public Works

**Branch:** Water & Wastewater

**Council Date:** September 1, 2021

### **Recommendation:**

**Be it resolved that** Council receive Staff Report PW2021-042 for information; and  
**That** Council direct staff to forward the Preliminary Design Report in support of the construction of a new Dundalk municipal drinking water elevated storage facility (water tower) to the Ministry of Environment, Conservation and Parks, and following receipt of Ministry comments; and

**That** Council approve the release of the Dundalk Water Tower Request For Tender by Triton Engineering Ltd.

### **Background:**

In the past few years with the growth in Dundalk, staff have forecasted in Council deliberations and discussions the requirement of a water tower to increase storage demands for increased capacity and fire flow protection.

The proposed water tower site location, adjacent to Dundalk Well D4, was previously selected during the Schedule B Municipal Class Environmental Assessment (EA) in conjunction with the Dundalk Well D5 EA.

Currently the Dundalk Well D3 above ground concrete reservoir has a capacity 1,306 m<sup>3</sup>.

The 2019-2023 Southgate Community Action Plan recommends that a water tower in Dundalk be erected to service current and future population growth.

### **Staff Comments:**

Triton Engineering Services Limited have prepared a Preliminary Design Report for the new Dundalk water tower to be submitted to the Ministry of Environment, Conservation and Parks (MECP). (Attachment #1)

The elevated water tower design is sized to meet current and future water demands based on the year 2045 expected population of 11,153 resulting in a storage volume of 3,988 m<sup>3</sup>.

A water tower utilizes head pressure to push water into the distribution system and reduces electricity requirements for distribution pumping. The tower will be filled by the wells pumping to the tower on off peak electricity rate times resulting in more energy efficiencies, reduction of green house gas emissions and cost savings.

Following comments received by the MECP on the Preliminary Design Report, a Request For Tender (RFT) for the Dundalk elevated water tower design will be issued by Triton Engineering in the fall of 2021. Construction of the water tower is anticipated for the spring of 2022.

**Financial Implications:**

The 2021 Capital Budget included \$30,000.00 for the water tower design and engineering work.

The estimated cost of the Dundalk Water Tower build is \$5,685,000.00 excluding HST.

Development Charges will contribute funds for the water tower and an Infrastructure Ontario debenture will fund the remaining cost of build of the Dundalk Water Tower project.

**Communications & Community Action Plan Impact:**

Goal 5 - Upgrading our "Hard Services"

**Action 5:**

The residents and businesses of Southgate recognize our linear services - roads, bridges, water and sewer works, for example - to be a fundamental purpose of municipal government. This infrastructure needs to be serviceable and sustainable so that our businesses and communities can thrive and grow.

**Strategic Initiatives:**

**5-B** - The Township will have adopted a long-term asset management plan for the timely repair, replacement, and expansion of the Township's infrastructure, facilities, and other assets.

**5-D** - The Township will have erected a new water tower in Dundalk.

**Concluding Comments:**

Staff recommends that:

1. Council receive Staff Report PW2021-042 for information.
2. That Council direct staff to forward the Preliminary Design Report in support of the construction of a new Dundalk municipal drinking water elevated storage facility (water tower) to the Ministry of Environment, Conservation and Parks.
3. Following receipt of Ministry comments that Council approve the release of the Dundalk Water Tower Request For Tender by Triton Engineering Ltd.

Respectfully Submitted,

**Dept. Head:** *Original Signed By*  
Jim Ellis, Public Works Manager

**Treasurer Approval:** *Original Signed By*  
William Gott, CPA, CA Treasurer

**CAO Approval:** *Original Signed By*  
Dave Milliner, CAO

**Attachments:**  
Attachment #1 – Triton Preliminary Design Report