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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON FEBRUARY 13, 2012</b>
<b>FROM:</b>	<b>JOHN BRAAM, P.Eng. ACTING EXECUTIVE DIRECTOR PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER</b>
<b>SUBJECT</b>	<b>STORM/DRAINAGE AND STORMWATER MANAGEMENT IN THE HOLIDAY AVENUE/GREENFIELD DRIVE AREA</b>

### RECOMMENDATION

That, on the recommendation of the Acting Executive Director, Planning Environmental and Engineering Services Department and City Engineer, the following actions **BE TAKEN** with respect to remediation works to improve the storm/drainage flows conveyance and minimize surface flooding impacts to private properties in the Holiday Avenue/Greenfield Drive Area:

- (a) That the Civic Administration **BE AUTHORIZED** to undertake remediation works to mitigate surface flooding impacts on private properties related to storm/drainage overland flow deficiencies in the Holiday Avenue/Greenfield Drive drainage area as per the recommendations in the Holiday Avenue/Greenfield Drive Area Flooding Study report;
- (b) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this work;

### PREVIOUS REPORTS PERTINENT TO THIS MATTER

PC – August 23, 2010 – Storm/Drainage and Stormwater Management in the Holiday Avenue/Greenfield Drive Area

PC – February 24, 2010 - Application by: Barry Molloy 7 Holiday Avenue Application by: City of London 3-53 Holiday Avenue, 19-23 Greenfield Drive, and 728-738 Exeter Road Public Participation Meeting

### BACKGROUND

**Purpose:**

To report to Civic Works Committee (CWC) on the findings of completed investigations by Spriet Associates regarding the existing and future flooding impacts on private properties under pre and post-development conditions within the Holiday Avenue/ Greenfield Drive drainage area, as well as to recommend the preferred servicing option for mitigating these flows to minimize surface flooding within this area.

**Context:**

The drainage flooding complaints were brought to the City's attention at PC's Public Meeting (PM) on February 24, 2010, in relation to the proposed re-zoning application at 7 Holiday Avenue. The surface flooding complaints were related to inadequate overland flow conveyance causing surface flooding impacts on private lands and a lack of adequate capacity for the existing storm outlet system. It was recommended that the Planning, Environmental and Engineering Services Department (PEESD) undertake further investigation and improvement works to mitigate surface flooding impacts on the private properties related to storm/drainage overland flow deficiencies in Holiday Avenue/Greenfield Drive Area.

**Discussion:**

On August 30, 2011, the Stormwater Management (SWM) Unit engaged Spriet Associates (SA) to undertake an engineering review of drainage deficiencies related to inadequate overland flow conveyance that were causing surface flooding impacts on private lands in combination with inadequate storm outlet system capacity. It was recommended that PEESD will undertake further investigation and develop the remediation servicing option to mitigate surface flooding impacts on the private properties related to storm/drainage overland flow deficiencies in Holiday

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Avenue/Greenfield Drive drainage area.

SA conducted the review and recorded the existing drainage conditions inventory, undertook flooding surveys and held on-site meetings with the local residents. Based on the investigation it was concluded that during the major storm events the storm runoff is retained on the private property creating rear yard flooding. It was noted that stormwater runoff contributes to the rear yard flooding as it is conveyed westerly between 7 and 15 Holiday Avenue from the intersection of Holiday Avenue and Wellington Road.

SA's report recommended that the existing roadside ditch along the west side of Holiday Avenue be re-graded and the culverts be replaced to provide positive drainage along the entire length of the existing roadside ditch. Asphalt driveover curbs to divert the stormwater run-off into the re-graded roadside ditch should be installed at 7, 15 and 21 Holiday Avenue. The installation of a rear yard catchbasin be installed at 15 Holiday Avenue and connect to the Greenfield Drive storm sewer between 19 and 21 Greenfield Drive. It was noted that 7 Holiday Avenue is within the drainage area for the Greenfield Drive storm sewer (See Appendix A). In addition, the placement of this proposed rear yard catchbasin/lead may accommodate the discharge from proposed redevelopment application at 7 Holiday Avenue and provide an overflow outlet for the existing drywell system at 15 Holiday Avenue.

In order to finalize the Site Plan application approval and remove the existing holding provision for the property at 7 Holiday Avenue, the remediation works as outlined in SA's report are required to be undertaken by the City.

#### **Conclusion:**

Based on the findings of Spriet Associates assessment in order to resolve the drainage deficiencies and overland (major) flow impacts on private lands under the pre and post-development conditions and address storm outlet capacity issues in the Holiday Avenue/Greenfeild Drive drainage area, we recommend the re-grading of the existing ditch, installation of driveover curbs and a rear yard catchbasin works be undertaken by the City.

#### **Next Steps**

1. The City engaged Spriet Associates to undertake the detailed design that is scheduled to be completed in April 2012.
2. The City is planning to engage the contractor or the City's forces to undertake the identified works.

#### **Acknowledgements:**

This report was prepared by Andrew Galloway Technologist of the Stormwater Management Unit, Planning, Environmental and Engineering Services Department.

<b>SUBMITTED BY:</b>	<b>RECOMMENDED BY:</b>
<b>BERTA KRICKER, M.Eng., F.E.C., P. Eng. MANAGER OF STORMWATER STORMWATER MANAGEMENT UNIT</b>	<b>JOHN BRAAM, P.ENG. ACTING EXECUTIVE DIRECTOR PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER</b>

Attach: Appendix "A" – Location Map with Proposed Work and Drainage Area

cc: Spriet Associates