

**THE CORPORATION OF THE CITY OF WINDSOR  
OFFICE OF THE CITY ENGINEER – OPERATIONS**

**MISSION STATEMENT:**

*"Our City is built on relationships – between citizens and their government, businesses and public institutions, city and region – all interconnected, mutually supportive, and focused on the brightest future we can create together."*

<b>LiveLink Number #:</b> 17725 SW/12216	<b>Report Date:</b> May 12, 2015 (PW#4059-05/13/15:eb)
<b>Author's Name:</b> Andrew Lewis	<b>Date to Council:</b> June 1, 2015
<b>Author's Phone:</b> 519-255-6560 x 4229	<b>Classification #:</b>
<b>Author's E-Mail:</b> alewis@city.windsor.on.ca	

**TO:** Mayor and Members of City Council

**SUBJECT:** 2015 – Sanitary Sewer Smoke Testing I (Tender 37-15) and Sanitary Sewer Smoke Testing II (Tender 38-15)

**1. RECOMMENDATION:** City Wide:  Ward(s): \_\_\_\_\_

I. THAT the following low tender **BE ACCEPTED:**

<b>Tenderer:</b>	<b>SEWER MAINTENANCE SERVICES</b> P.O. Box 250 Kingsville, Ontario N9Y 2E9
<b>Tender No:</b>	37-15 and 38-15
<b>Total Tendered Price:</b>	37-15 \$53,575.36 38-15 \$54,676.80 Excluding HST respectively
<b>Account Charged:</b>	007-5410-1790-02942-7131000

AND THAT the Chief Administrative Officer and City Clerk **BE AUTHORIZED** to sign a contract with the low tenderer, satisfactory in technical content to the City Engineer, in financial content to the Chief Financial Officer and City Treasurer, and in form to the City Solicitor; and

II. THAT Council **APPROVE** the transfer of \$25,000.00 from Capital Project 7111019 (Small Sewer Repairs) to Capital Project 7131000 (Smoke & Dye Testing) to provide additional funds required to complete Tenders 37-15 and 38-15

**EXECUTIVE SUMMARY:**

N/A

**2. BACKGROUND:**

As per CR128/2012, Capital Budget funding of \$200,000 was pre-committed in 2013 for smoke and dye testing used for assessing sewer conditions. Three contracts, Tenders 66-13, 74-14 and

88-14 have been successfully undertaken with the results being used to address such issues as missing or broken cleanout caps as communicated to Council in Livelink Report No. 17592.

At the tender opening on April 23, 2015, the following bids were received for Tender No. 37-15 Sanitary Sewer Smoke Testing I. All tenders have been reviewed and the results are as follows:

<b>TENDERER</b>	<b>TENDERED AMOUNT (excluding HST)</b>
<b>Sewer Maintenance Services</b> P.O. Box 250, Kingsville, Ontario, N9Y 2E9	\$53,575.36
<b>Thompson Flow Investigations</b> 4129 Varden Court, Mississauga, Ontario, L5L 4A7	Disqualified by Purchasing
<b>Cole Engineering Group Ltd.</b> 70 Valleywood Drive, Markham, Ontario, L3R 4T5	Disqualified by Purchasing

At the tender opening on April 23, 2015, the following bids were received for Tender No. 38-15 Sanitary Sewer Smoke Testing II. All tenders have been reviewed

<b>TENDERER</b>	<b>TENDERED AMOUNT (excluding HST)</b>
<b>Sewer Maintenance Services</b> P.O. Box 250, Kingsville, Ontario, N9Y 2E9	\$54,676.80
<b>Thompson Flow Investigations</b> 4129 Varden Court, Mississauga, Ontario, L5L 4A7	Disqualified by Purchasing
<b>Cole Engineering Group Ltd.</b> 70 Valleywood Drive, Markham, Ontario, L3R 4T5	Disqualified by Purchasing

### **3. DISCUSSION:**

In accordance with Council Resolution CR128/2012, a contract in the amount of \$53,575.36 (excluding HST) for Tender No. 37-15 can be awarded to Sewer Maintenance Services.

The proposed work to be carried out under Tender No. 37-15 includes:

- The investigating, recording and reporting of all connections to the municipal sanitary or combined mainline sewer by use of smoke testing. The Contractor shall record all points of exit of the smoke from various locations, (i.e. plumbing vent stacks on buildings) to determine whether or not the property is connected to the municipal sanitary or combined mainline sewer.
- The boundaries are South Cameron Boulevard/Division Road to the east, Cabana Road to the south, Northway Avenue to the west and West Grand Boulevard to the north.

In accordance with Council Resolution CR128/2012, a contract in the amount of \$54,676.80 (excluding HST) for Tender No. 38-15 can be awarded to Sewer Maintenance Services.

The proposed work to be carried out under Tender No. 38-15 includes:

- The investigating, recording and reporting of all connections to the municipal sanitary or combined mainline sewer by use of smoke testing. The Contractor shall record all points of exit of the smoke from various locations, (i.e. plumbing vent stacks on buildings) to determine whether or not the property is connected to the municipal sanitary or combined mainline sewer.
- The boundaries are Walker Road to the east, City Limits to the south, Dougall Avenue/Howard Avenue to the west and Cabana Road East/Provincial Road/Division Road to the north.

#### 4. **RISK ANALYSIS:**

This investigative work is part of the basement flooding mitigation program. The smoke testing helps to identify areas of infiltration of storm water into our sanitary sewer system. This infiltration can cause the sanitary system to surcharge and not only flood private properties connected to the system but also overwhelm our water reclamation plants.

Identification of the areas of infiltration, such as broken clean out caps or crossed sewer connections, allow Administration to educate the public on flooding, undertake necessary remedial action programs, repairs and processes to stop the infiltration into the sanitary system which can reduce the instances of basement flooding.

#### 5. **FINANCIAL MATTERS:**

Summary of tender costs and project funding are shown below:

Tender Value 37-15	\$ 53,575.36
Unrecoverable HST	\$ 942.93
<b>Total City Cost (37-15)</b>	<b>\$ 54,518.29</b>
Tender Value 38-15	\$ 54,676.80
Unrecoverable HST	\$ 962.31
<b>Total City Cost (38-15)</b>	<b>\$ 55,639.11</b>
Approved Budget, Project 7131000 (Smoke & Dye)	\$200,000.00
Less: Costs to Date	\$ 98,545.00
Less: Outstanding Commitments (Projected)	\$ 15,000.00
<b>Available Funds, Project 7131000 (Smoke &amp; Dye)</b>	<b>\$ 86,455.00</b>
Less: Tender Costs, 37-15	\$ 54,518.29
Less: Tender Costs, 38-15	\$ 55,639.11
<b>Funding (Shortfall)</b>	<b>\$ (23,702.40)</b>

As outlined in the summary above, there are **insufficient funds** remaining in Project ID 7131000 (Smoke and Dye Testing) to fund the work required under tenders 37-15 and 38-15. Administration recommends a transfer of \$25,000.00 from Capital Project ID 7111019 (Small Sewer Repairs) to Project ID 7131000 (Smoke and Dye Testing) to fund the projected shortfall of funds. There are sufficient funds in project ID 7111019 (Small Sewer Repairs) to fund this shortfall. Note that both Project ID 7131000 and 7111019 are funded from Sewer Surcharge.

**6. CONSULTATIONS:**

Cindy Etmanski, Financial Planning Administrator – PW Operations  
Victor Ferranti, Manager of Capital Budget & Reserves – Asset Planning

**7. CONCLUSION:**

That Council **APPROVE** the transfer of funds to undertake the Smoke Testing contracts and that additional funding will be requested in the 2016 Capital Budget submission to continue with the Smoke & Dye Testing sewer investigation program to assist with the further assessment of sewer conditions as directed by Council under CR128/2012, 'Appendix A' attached.



ANDREW LEWIS  
Research Analyst Coordinator



DWAYNE DAWSON  
Executive Director of Operations



MARK WINTERTON  
City Engineer and Corporate Leader  
Environmental Protection & Transportation



ONORIO COLUCCI  
Chief Financial Officer/City Treasurer and  
Corporate Leader Finance and Technology



SHELBY ASKIN HAGER  
City Solicitor



HELGA REIDEL  
Chief Administrative Officer

AL:jbm

**APPENDICES:**

Appendix A – CR128/2012

**DEPARTMENTS/OTHERS CONSULTED:**

Name:

Phone #:

**NOTIFICATION :**

Name	Address	Email Address	Telephone

CR128/2012

- I. THAT Council **RECEIVE** the 2012 Sewer Surcharge Budget Update report from the City Treasurer and;
- II. THAT the updated 5-Year Sewer Surcharge Forecasts (2012-2016) **BE RECEIVED** for information as presented in *Appendix A* of the report and;
- III. THAT, effective July 1, 2012, the Sewer Surcharge Rates **BE INCREASED** in accordance with Option 3 as detailed in this report and set at the following levels:
  - Residential Fixed Rate..... 66%
  - Residential Consumption Rate..... 487%
  - Commercial Rate:..... 167%
- IV. That Council **APPROVE** (in principle, subject to annual Capital Budget approval) \$2,000,000 in 2013, \$400,000 in 2014, \$220,000 in 2015 and \$330,000 in 2016 as part of the respective Capital Budget for expansion of the downspout disconnection program to be funded from the Sewer Surcharge; and
- V. That Council **AUTHORIZE** Administration to retain contractors and/or temporary staffing (if required) to disconnect and document downspout disconnections in accordance to the downspout disconnection program; and
- VI. That the City Engineer **BE AUTHORIZED** to proceed to issue an RFP for a consultant or firm to perform flow monitoring and hydraulic modelling of the City's sewer system which will help in developing a Master Plan for storm and sanitary sewers; subject to meeting project specifications and being within the 2012 recommended budget of \$250,000 for capital project ECP 004-09 "Stormwater and Sanitary Master Plan"; and subject to the terms and conditions of the City's Purchasing By-law 400-2004 (as amended); and
- VII. That subject to the results of the hydraulic modelling and Master Plans that the City Engineer **REPORT** to Council, as part of a future Capital Budget deliberations, provide a report with recommendations for remedial works; and