



ST. CHARLES  
SINCE 1834

## AGENDA ITEM EXECUTIVE SUMMARY

**Title:** Recommendation to Approve Water Distribution System Leak Survey Proposal

**Presenter:** John Lamb

*Please check appropriate box:*

<input checked="" type="checkbox"/>	Government Operations	X	Government Services 4.25.11
<input type="checkbox"/>	Planning & Development		City Council
<input type="checkbox"/>	Public Hearing		

<b>Estimated Cost:</b>	\$31,466.40	<b>Budgeted:</b>	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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If NO, please explain how item will be funded:

**Executive Summary:**

The Water Division conducts an annual leak survey of the water distribution system to determine where leaks are occurring in the system. This is done so the water division can proactively eliminate the leaks thereby reducing water loss in the system and improving accountability.

Proposals were requested from three qualified firms. Associated Technical Services supplied the lowest quote based on an anticipated 60 leaks identified at \$31,466.40. M.E. Simpson Co. quoted the work at \$34,580 and Water Services Company supplied an incomplete quote.

**Attachments:** *(please list)*

Bid Waiver and copies of Proposals

**Recommendation / Suggested Action** *(briefly explain):*

Request approval to award proposal with Associated Technical Services in the amount of \$31,466.40.

*For office use only:*

*Agenda Item Number: 6.h*

**REQUEST FOR WAIVING BID PROCEDURE**

We request the City Council to waive the bid procedure and accept the quotation (requiring two-thirds City Council vote) submitted by:

Associated Technical Services  
524 W. St. Charles Rd.  
Villa Park, Illinois

For the purchase of: Leak survey of the water distribution system.

At a cost not to exceed: \$31,466.40.

Reason for the request to waive the bid procedure: Associated Technical Services offers competitive pricing and has demonstrated in previous projects that they have the expertise, personnel and equipment to deliver a quality product in a timely manner.

Other Quotations Received: M.E. Simpson &Co. and Water Services Co.

Date: March 28,2011

Requested by: P. Marschinke

Department Director: 

Purchasing Manager: \_\_\_\_\_

Committee Chairman: \_\_\_\_\_

**THIS REQUEST FORM MUST BE SIGNED BY ALL PARTIES PRIOR TO REQUESTING COMMITTEE APPROVAL FOR WAIVING OF THE BID PROCEDURE. REQUESTS FORWARDED DIRECTLY TO THE CITY COUNCIL (AND BYPASSING COMMITTEE) MUST BE SIGNED BY ALL PARTIES PRIOR TO REQUESTING CITY COUNCIL APPROVAL. SUCH REQUESTS ARE TO BE OF AN EMERGENCY NATURE WHERE TIME IS OF THE ESSENCE.**

*The value, accuracy and effectiveness of an ATS Comprehensive Leak Survey Program is best typified by the City of St. Charles' personal leak survey experience:*

<u>Year</u>	<u>Firm</u>	<u>Main Leaks</u>	<u>Service Leaks</u>	<u>Hydrant Leaks</u>	<u>Valve Leaks</u>	<u>Total</u>	<u>Daily Loss/Recovery</u>
1990	ATS Ltd.	6	23	33	7	69	309,955 GPD
1993	ATS Ltd.	8	16	45	5	74	362,026 GPD
1995	ATS Ltd.	5	4	16	14	39	70,020 GPD
1999	ATS Ltd.	8	12	19	11	51	313,110 GPD
2001	ATS Ltd.	6	8	21	10	45	239,780 GPD
2003	ATS Ltd.	4	9	11	6	30	135,870 GPD
2005	ATS Ltd.	6	12	14	5	37	158,167 GPD
2007	ATS Ltd.	5	13	18	4	39	183,009 GPD
2008	ATS Ltd.	10	3	32	10	55	258,090 GPD
2009*	ATS Ltd.*	4*	4*	16*	2*	26*	122,006 GPD
<b>ATS Survey Totals:</b>		<b>62</b>	<b>104</b>	<b>225</b>	<b>74</b>	<b>456</b>	<b>± 2,152,033 GPD</b>
<b>System-Wide Survey Average:</b>		<b>7</b>	<b>11</b>	<b>25</b>	<b>8</b>	<b>51</b>	<b>215,203 GPD</b>

\* ± 94 miles of the 220 total miles of water system was designated for survey in 2009.

\*\* A combination of field estimates and average leak sizes were used when in those instances when actual repair and orifice size data wasn't available for some of the leaks.

**ESTIMATE OF COST – ATS COMPREHENSIVE LEAK SURVEY PROGRAM**

For purposes of developing this estimate of cost, we have used the City's estimate of 220 lineal miles of water main (1,161,600 lineal feet) as the total amount of water main owned by the City. The Water Department will designate which areas of the system will be surveyed for leaks. Final billing will be based upon the actual amount of surveyed main determined by a combination of actual field and map measurements plus the total number of pinpointed leaks.

**"ATS INCENTIVE-BASED PROPOSAL"**

**Detection Phase:**

1,161,600 @ \$ 0.0165 per lineal foot of water main = \$ 19,166.40  
(\$ 0.015 per lineal foot of water main = \$ 79.20 per lineal mile of main)

**Location Phase:**

\$ 295.00 per leak that is pinpointed in the field  
\$ 95.00 per leak that is determined to be a leaking Fire Hydrant

**Survey Area:**

To be defined by the City. Unit Costs will not change provided a minimum of 250,000 LF of water main is designated for survey.

# PROPOSAL FEE

March 23, 2011

M.E. Simpson Co., Inc. is pleased to present our "Cost Proposal" for Leak Detection Services for the City of St. Charles, Illinois. The leak survey program will be conducted on approximately 220 miles of pipe in the Utility's water distribution system. M.E. Simpson Co., Inc. will perform this leak survey with one or two of our two-man teams, with all necessary equipment, described within this document, furnished by M.E. Simpson Co., Inc. All procedures will be followed as described within this document. All travel, lodging and meals are included in the proposal price. The survey will also include complete pinpointing of all leaks found, with an individual report on each leak location, and a final comprehensive report.

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## Option I

A Complete Water Distribution System Leak Survey on approximately 220 miles of water main:

2011 Leak Detection Survey at \$160.00 per mile (Approx. 220) ----- (\$35,200.00)

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## Option II - Incentive Based Leak Survey

220 miles of water main surveyed at \$110.00 per mile ----- (\$24,200.00)

Per Leak Location Fee:

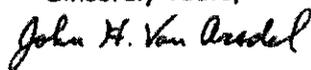
Correlated leaks (Main breaks, service line leaks) ----- (\$250.00 ea.)

Hydrant leaks, Valve leaks ----- (\$110.00 ea.)

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We thank you for this opportunity to acquaint you with our Leak Detection Services and offer this proposal. If you have further inquiries or you wish to discuss our service in more detail, do not hesitate to call us.

Sincerely Yours,



John H. Van Arsdel  
Vice President  
JHV/jph



Leak Detection & Location Survey - City of St. Charles



## **Proposal**

**Survey of the Water Distribution System.**

**Approximately 220 miles (1,161,600 feet) x \$.0188 = \$21,838.08**

**Estimate time for completion of the leak survey project is approximately  
5-6 weeks.**