
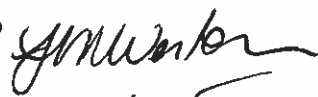


TO: GENERAL COMMITTEE


SUBJECT: PROVIDING SOURCE PROTECTION SERVICES - PILOT PROGRAM

WARD: ALL

**PREPARED BY AND
KEY CONTACT:** S. DIEMERT 
RISK MANAGEMENT OFFICIAL (Ext. 5150)

SUBMITTED BY: J. WESTON, M.A.Sc., P. Eng., PMP 
DIRECTOR OF ENGINEERING

**GENERAL MANAGER
APPROVAL:** R. J. Forward, MBA, M.Sc., P. Eng., 
GENERAL MANAGER OF INFRASTRUCTURE & GROWTH MANAGEMENT

**CHIEF ADMINISTRATIVE
OFFICER APPROVAL:** C. LADD 
CHIEF ADMINISTRATIVE OFFICER

RECOMMENDED MOTION

1. That the Mayor and City Clerk be authorized to execute an agreement with the Township of Springwater in accordance with the following terms and conditions:
 - a) The Township of Springwater delegate authority to the City of Barrie as providing Part IV enforcement as required under the Clean Water Act.
 - b) The Township of Springwater will reimburse the City for the staff costs associated with the services provided at the rates outlined in the agreement.
 - c) The Township of Springwater and the City of Barrie agree to a one year term for the agreement at which time it may be extended or terminated by either party.
2. That any future requests requiring significant City source protection resources be considered and reviewed by the General Manager of Infrastructure & Growth Management in accordance with the criteria set out in Appendix "A" of ENG007-15 and a memo be prepared for General Committee with details of any request.

PURPOSE & BACKGROUND

3. The Clean Water Act, 2006, has designated the enforcement authority associated with the Drinking Water Source Protection Plan to the municipal level. Under the Clean Water Act, 2006, municipalities may transfer, through a written agreement, the Part IV Enforcement authority to another municipality.
4. The purpose of this staff report is to obtain approval from Council to enter into a pilot program to provide source protection services to other municipalities in order to meet their legislative requirements.
5. The City of Barrie received a request from the Township of Springwater to consider providing source protection services to the Township for a period of one year.
6. Source protection is provincially legislated to ensure that drinking water sources do not become impacted by various contamination threats.

7. Appendix "A" map shows the vulnerable areas that influence the Barrie wells in the 25 year timeline, extending beyond our municipal boundary and into the Township of Springwater. Groundwater flows do not follow municipal boundaries and it makes sense to protect on a watershed basis. This potential opportunity would benefit the protection of the watershed as a whole.
8. Since 2013, the City of Barrie staff have been collaborating with neighbouring municipalities to determine cross boundary relationships. These municipalities have the option of including Barrie's vulnerable areas along with their own in their source protection program or transferring responsibility to the City of Barrie. As part of these discussions, the City of Barrie was approached by Springwater Township to consider providing administration and enforcement of Part IV (Regulation of Drinking Water Threats) responsibilities for their vulnerable areas which would include the portion of Barrie's that extends into Springwater. The remaining municipalities, Innisfil, Essa and Oro-Medonte, have delegated authority to the Conservation Authority for source protection services.
9. In October of 2012, the City of Barrie made the decision to have dedicated resources within the City responsible for source protection, given the significant workload associated with implementation and the importance of the City's drinking water system, both from a public service perspective and significant infrastructure investment in the system (Motion 12-G-254).
10. The City is collaborating with other municipalities through working groups and providing guidance on areas of expertise. The Town of Wasaga Beach has requested assistance with their threat verification inspections for chemical threats. The City has agreed to help, as the time involved for the Risk Management Inspector will be minimal.

ANALYSIS

11. A memo dated December 18, 2014, "Source Protection Services to the Township of Springwater" informed Council that staff had received a request to consider providing source protection services to the Township in order to meet their legislative requirement and staff were proceeding with discussions.
12. Springwater has approached the City as groundwater flows do not follow municipal boundaries and it makes sense to protect on a watershed basis. This potential opportunity to work with Springwater would benefit the protection of the watershed as a whole.
13. City staff have been building knowledge and capacity to meet the City's requirements under the provincial legislation. We are currently working with City departments on developing internal administrative procedures to ensure a smooth implementation process of these new requirements. By working together with the Springwater Township, we can ensure a coordinated approach to communications, information management and policy development for the areas of concern.
14. The Source Protection Plan was approved on January 26, 2015 with an effective date of July 1, 2015. There are several different timelines under the plan. The most significant workload will be the establishment of Risk Management Plans which need to be completed within five years of the effective date. Staff have drafted a work plan based on completion of this work within the five year period, should resources continue to be made available.

15. The City has invested significantly in our water system infrastructure including annual groundwater monitoring and it is to our advantage to protect that investment not only within Barrie but also within the watershed. Contamination to drinking water can have significant costs to monitor, treat and/or replace a groundwater well. The total cost to develop a new well with a new building would be approximately \$4M. Source water protection is a preventative step and the most cost effective way to provide clean and safe drinking water.
16. The estimated time to complete the work for Springwater would be just over five months depending on the potential tasks required. This work will be negotiated based on our capacity for the work. Threat verification work would be completed by the City's Risk Management Inspector; other elements such as the Risk Management Plans would be completed by the Risk Management Official and some elements by both staff members. It is not anticipated that this work would impact completion of the City's source protection work in the required timeline.

ENVIRONMENTAL MATTERS

17. The following environmental matters have been considered in the development of the recommendation:
 - a) This agreement will assist the City in protecting not only our drinking water sources but also other drinking water sources within our shared watershed.

ALTERNATIVES

18. The following Alternative is available for consideration by General Committee:

Alternative #1 General Committee could choose to not provide source protection services to the Township of Springwater.

This Alternative is not recommended as it is an opportunity to recover costs for services provided and to extend our expertise to a neighbouring municipality.

FINANCIAL

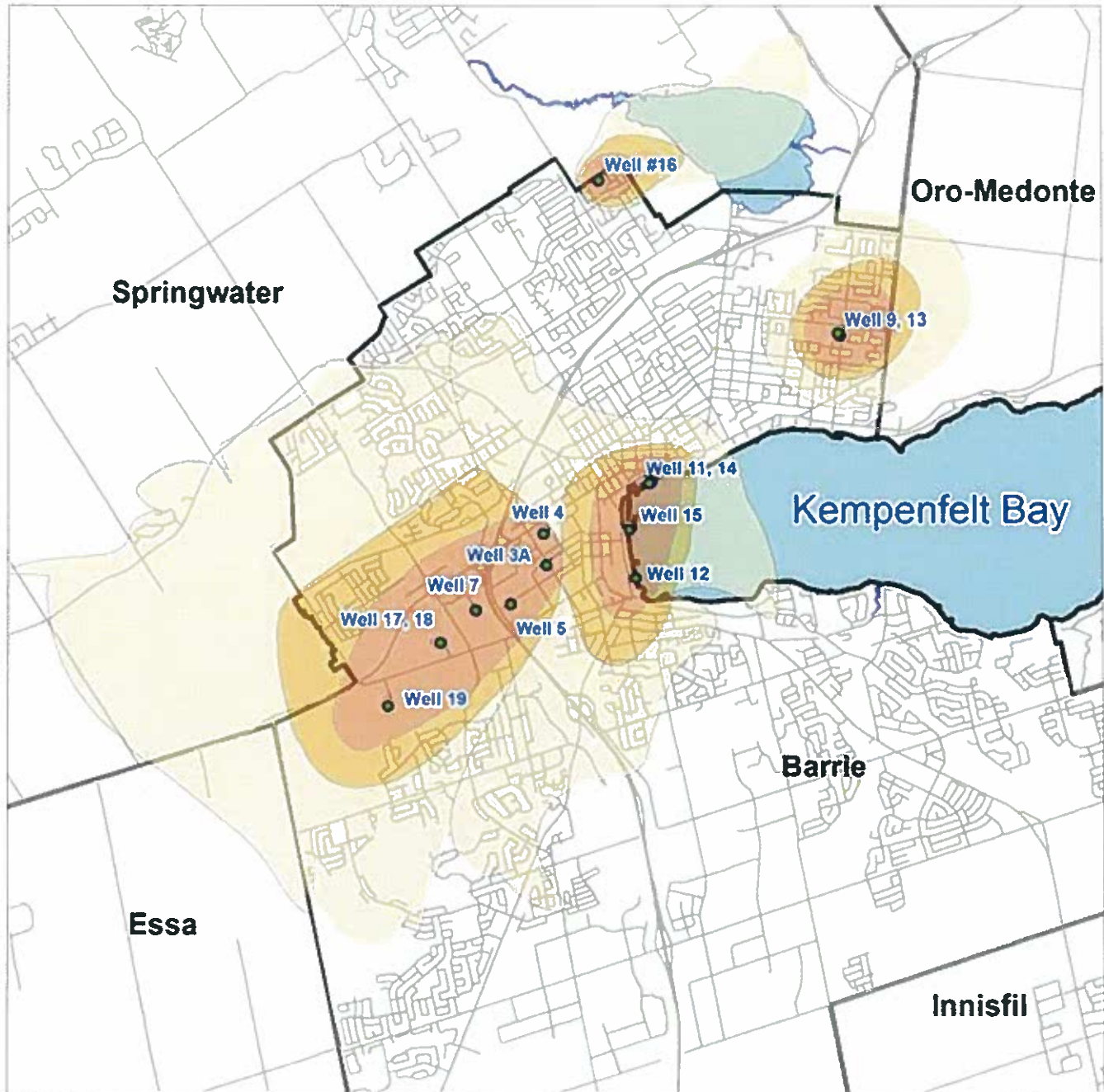
19. Under Section 390 to 394 of the Municipal Act, the City can impose fees or charges for costs of services provided, although the City may not profit.
20. An agreement to provide source protection services would require full cost recovery to the City of Barrie for the time of the Risk Management Official and the Inspector. This cost recovery would include salary, benefits, burden, and overhead plus any travel or other expenses.
21. The City's Legal department is reviewing the draft agreement and has contacted the City's insurance provider to ensure sufficient coverage exists for any potential incidents within Springwater's boundary. If any additional cost would be incurred for this coverage, it will be included as part of full cost recovery outlined in the agreement.
22. The draft cost estimate provided to Springwater could generate revenue for the City of Barrie in the approximate amount of \$68,000.
23. Staff would consider hiring a student with the additional funding provided by Springwater Township. This position would assist the City of Barrie on their work, as well as the additional work from Springwater.

LINKAGE TO 2014 – 2018 COUNCIL STRATEGIC PLAN

24. The recommendation(s) included in this Staff Report support the following goals identified in the 2014-2018 Strategic Plan:
- Vibrant Business Environment
 - Inclusive Community
25. By providing source protection services to the Township of Springwater, there is a potential opportunity to advance certain strategic initiatives, such as managing properties like the Barrie Golf and Country Club which are located in Springwater. This in turn would help us protect our own drinking water sources.

APPENDIX "A"

Drinking Water Vulnerable Areas in the City of Barrie



APPENDIX "B"

Criteria for Evaluating Requests for Providing Source Protection Services

Requests to provide source protection services outside the City boundary will be reviewed and evaluated on a case-by-case basis, using the following criteria:

1. The staff time required to assist any other municipality will still allow the City of Barrie to meet the City's timelines under the Source Protection Plan.
2. The City has sufficient staff resources to be able to assist any other municipality.
3. The amount of work provided would not require an additional full time equivalent position at the City.
4. The City would benefit either in gaining knowledge, or protecting the watershed as a whole by assisting other municipalities.