

**Third Reading**

No. 67-08

Council of the Township of Wollaston

Session Nov., 19, 2008

Moved by Burt Cook

Seconded by Ron Eade

That a by-law to accept the updated proposal from Jacques Whitford environmental consultants to conduct the monitoring activities at the waste site for the 2008 monitoring program and receive a final report by March 10, 2009 for a total dollar value of \$17,435 excluding gst

As reported by the committee of the Whole be read a third time, passed and numbered 67-08 and that the said by law be signed by the Reeve and clerk, sealed with the seal of the Corporation, and be engrossed in the by-law book.

Carried \_\_\_\_\_

**Second Reading**

No. 67-08

Council of the Township of Wollaston

Session Nov 19 2008

Moved by Graham Blair

Seconded by \_\_\_\_\_

That a by-law to \_\_\_\_\_

Be read a second time and be referred to a committee of the whole council.

Carried \_\_\_\_\_

**First Reading**

No. 67-08

Council of the Township of Wollaston

Session Nov 19 2008

Moved by Ron Eade

Seconded by Graham Blair

That Council adjourn Council Meeting at \_\_\_\_\_ Hours.

be received and read a first time.

Carried Don McEwen


**The Corporation of the Township of Wollaston**

**By-Law No . 67-08**

Being a by-law to accept the updated proposal from Jacques Whitford environmental consultants to conduct the monitoring activities at the waste site for the 2008 monitoring program and receive a final report by March 10, 2009 for a total dollar value of \$17,435 excluding gst

Read a first, second and third time this 19thday of November, 2008.

Passed sealed numbered and entered into the by-law book.

  
Dan McCaw, Reeve

  
Christine FitzSimons, Deputy Clerk

**From:** Vanegmond, Jeffrey [mailto:Jeffrey.Vanegmond@jacqueswhitford.com]  
**Sent:** Thursday, November 06, 2008 3:35 PM  
**To:** Wollaston Township  
**Cc:** Wight, Jeff  
**Subject:** 2008 Annual Monitoring Program - updated proposal

Good afternoon Marilyn.

As a quick update, we are currently conducting the drilling program at the Wollaston Waste Disposal Site. At the end of the week it is anticipated that we will have an additional 4 monitoring wells (8 wells in total) installed across the site. We will also be decommissioning in place monitoring well TW2 as it was no longer operational. This will assist greatly with our characterization of the hydrogeological conditions at the site.

Please see attached our updated proposal to conduct the monitoring activities at the site for the 2008 monitoring program. Please note, the costs included in this proposal includes the monitoring and sampling of the existing sample locations (spring 2008) plus the additional sampling locations outlined in the approved drilling program (spring and fall 2008). To minimize our costs for the project we have pushed back the fall monitoring event so we can complete all sampling locations after the drilling program is complete.

We are anticipating that we may complete the fall monitoring event the week of November 17-21. We trust the attached information is sufficient for authorization to proceed with the monitoring program. Please sign the attached work order and forward it back to my attention, and we will finalize our schedule for sampling.

Should you have any questions or comments, please do not hesitate to contact me.

Sincerest Regards,

Jeff

Jeffrey Van Egmond, B.Sc.  
Project Manager

Jacques Whitford (Peterborough)  
2135 Whittington Drive, P.O. Box 215  
Peterborough, ON K9J 6Y8

[jeffrey.vanegmond@jacqueswhitford.com](mailto:jeffrey.vanegmond@jacqueswhitford.com)  
tel: 705 740 2267 ext 740 2229 (office)  
cell 705 927-6696

WORK ORDER SIGNED  
& FAXED NOV 14/08 SO THAT  
WELL TESTING CAN BE  
DONE WEEK OF NOV. 17/08



WORK ORDER

DATE: November 4, 2008

PROJECT NAME: Revised 2008 Annual Monitoring Program – Wollaston Waste Disposal Site

PROJECT NUMBER/PHASE: 1037882.01

JACQUES WHITFORD PROJECT MANAGER: Jeffrey Van Egmond

CLIENT NAME: Wollaston Township

CLIENT ADDRESS: P.O. Box 99, Coe Hill, ON

LOCATION OF SERVICES: Wollaston Waste Disposal Site

SCOPE OF WORK DESCRIBED AS FOLLOWS OR AS DESCRIBED IN THE ATTACHED PROPOSAL:

- 1) Revised Proposal for the 2008 Annual Monitoring Program – Wollaston Waste Disposal Site
- 2)
- 3)

ATTACHMENTS:

- 1) Proposal
- 2) Terms and Conditions
- 3)

ESTIMATED BUDGET/CONTRACT PRICE: \$ 17,435.00 plus GST.

SCHEDULE: START DATE: November 8, 2008 COMPLETION DATE: April 1, 2009

*By signing this work order, Client agrees to be bound by the terms and conditions contained in the attached Jacques Whitford Project Agreement.*

FOR JACQUES WHITFORD LIMITED:

Signature

Jeff Van Egmond, Project Manager

DATE: NOVEMBER 4, 2008

Print Name and Title

FOR CLIENT:

Signature

CHRISTINE FITZSIMONS

DATE: Nov 14/08

Print Name and Title

DEPUTY CLERK

# **APPENDIX A**

Standard Terms & Conditions and Work Order





## JACQUES WHITFORD LIMITED PROJECT AGREEMENT

1. **Services** Jacques Whitford, itself or through sub-contractors, agrees to perform the Services as set forth in the Work Order (the "Services"), subject to the terms and conditions set out below. The Client and Jacques Whitford shall each designate a representative who is authorized to act on behalf of such party and manage disputes arising under section 15 of this Agreement.

The Client may make or approve changes within the general scope of the Services, provided written notice of such changes is given to, reviewed by, and agreed to by, Jacques Whitford. If such changes affect Jacques Whitford's cost or time required for performance of the Services, an equitable adjustment of the compensation or of the term required to complete the Services will be made through an amendment to the Work Order.

2. **Payment** The Client agrees to pay Jacques Whitford for the Services such amount as indicated in the Work Order, and as indicated on submitted invoices. The Client agrees that the amounts indicated in Work Orders are estimates only and are subject to change.

3. **Payment Documentation** Invoices will be submitted regularly by Jacques Whitford to the Client for the Services performed and expenses incurred, plus applicable taxes, since the previous invoice. Payment to Jacques Whitford will be due as of the invoice date. Interest will be added to accounts in arrears net 30 days of invoice date at the rate of one and one-half (1 and 1/2) percent per month (18 percent per annum) or the maximum rate allowed by law, whichever is less, of the outstanding balance. The Client will reimburse Jacques Whitford for all reasonable attorney's fees, court costs, and other legal or administrative costs incurred to effect or ensure collection of amounts owing by the Client.

When Jacques Whitford engages the services of sub-consultants or sub-contractors in the performance of the Services, Jacques Whitford will include the sub-consultant's or sub-contractor's invoiced amount plus a service charge of 10% of the value of the sub-consultant or sub-contractor work in Jacques Whitford's invoice to the Client.

4. **Termination** This Agreement may be terminated by either party upon 30 days written notice to the other party. Either party may terminate this Agreement upon 10 days written notice to the other

party if the other party is in default of its obligations under this Agreement. The defaulting party shall have 5 days to cure or take reasonable steps towards curing such default.

In the event this Agreement is terminated for whatever reason, the Client shall forthwith pay to Jacques Whitford all amounts, including all expenses and other charges payable as set forth in the Work Order, together with all obligations incurred or committed to by Jacques Whitford in providing the Services or as a result of the termination of this Agreement.

5. **Access** The Client will furnish Jacques Whitford with access and right of entry onto any premises that are subject of the Services, and if such premises are not owned by the Client, the Client represents and warrants that it has full permission to allow Jacques Whitford onto the premises. Such access, right of entry or permission shall be sufficient to enable the performance by Jacques Whitford of the Services. Jacques Whitford will take reasonable precautions to minimize damage to the land or premises from its operations.

6. **Underground Structures** It is the responsibility of the Client to provide Jacques Whitford with assistance in locating underground structures and utilities in the vicinity of any construction, exploration or investigation. Jacques Whitford shall also rely upon third party sources in order to determine the existence and location of any underground structures and utilities of any kind. The Client acknowledges and agrees that Jacques Whitford may rely on such third party advice, so long as such third party is, in Jacques Whitford's opinion, a reasonable source for such information, without any requirement that Jacques Whitford shall make independent evaluation or investigation of such underground structures and utilities. In the event that the information supplied by third parties is incorrect, the Client acknowledges that Jacques Whitford shall not be responsible for any direct, indirect, consequential or other damage done to any such underground subsurface structures or utilities. If neither party can confirm the location of such structures and utilities, the Client agrees to accept all liabilities, costs, expenses and damages, whether direct, indirect, economic, punitive, incidental, special, exemplary or consequential, associated with the repair, replacement or restoration of any damage caused by Jacques Whitford or its sub-

contractor(s) in the performance of the Services.

7. **Reliance on Client** The Client shall be obligated to furnish to Jacques Whitford all existing studies, reports and other available data, and work done by the Client or by other contractors retained by the Client pertinent to the Services, or reports done by others upon which the Client is entitled to rely. Jacques Whitford shall be entitled to rely upon all such information and work in performing the Services. During the course of performing the Services, Jacques Whitford may also rely on certain information provided by government officials and other parties and on information contained in the files of government agencies available to Jacques Whitford at the time of the study. Jacques Whitford shall not attempt to independently verify, and shall have no responsibility for, the accuracy, completeness, workmanship or any other aspect of the information described above, except where explicitly a part of a Work Order.

8. **Ownership of Documents** All of the documents, records, data, drawings, field notes, proposals, estimates, analyses, specifications, interpretations, advice, opinions or other materials, whether in hard copy, electronic or digital form, prepared by or on behalf of Jacques Whitford and delivered to the Client, in connection with the Services (the "Documents") will become the property of the Client upon full and final payment of the compensation identified in the Work Order, provided, however, the intellectual property rights, including but not limited to copyright for the Documents as well as copyright and patent rights to all concepts, products, methods, or processes produced by or resulting from the Services shall be retained by Jacques Whitford. Jacques Whitford grants the Client a non-exclusive right and licence to use, disclose and reproduce the documents solely for the purpose of the Services.

9. **Samples** Jacques Whitford has neither created nor contributed to the creation of any hazardous, radioactive, toxic, pollutant or otherwise dangerous substance or condition at the site where the Services are performed and therefore is not liable for any claims, costs, expenses, damages whether direct, indirect or consequential, or other liabilities arising from the presence of such material. However, it may be necessary for the performance of the Services for Jacques Whitford or its sub-contractor to take samples of a variety of sorts,



including, without limitation, samples of soil, rock, or water. Such samples shall remain the property of the Client although they are being handled, transported and disposed of by Jacques Whitford or such subcontractor. The costs and expenses for all such handling, transport, and disposal shall be the responsibility of the Client.

**10. Third Party Reliance** Only the Client shall be entitled to rely on the Documents provided by Jacques Whitford in the performance of the Services. The Documents relate solely to the Services for which Jacques Whitford has been retained and shall not be used or relied upon by the Client or any third party for any variation or extension of the Services, any other project or any other purpose. Any unpermitted use by the Client or any third party is strictly prohibited.

**11. Standard of Care** Jacques Whitford agrees to use reasonable care, skill, competence and judgment in the performance of the Services which are generally consistent with professional standards for individuals providing similar services at the same time, in the same locale, and under like circumstances. No other warranty, expressed or implied, is made or intended by this Agreement.

**12. Indemnification** Each party agrees to indemnify and hold harmless the other party and its present and future officers, directors, employees, owners, agents, subcontractors, consultants, successors and permitted assigns against all claims and liabilities directly caused by the negligence, professional negligence or willful misconduct of the indemnifying party.

**13. Limitation of Liability** The Client shall be obligated to promptly report any failure by Jacques Whitford to conform to the agreed standard of care in writing to Jacques Whitford within six (6) months after completion of the Services, whereupon Jacques Whitford shall at its option, correct such nonconformity or reimburse the Client the cost of the nonconforming work provided. Neither party, nor any of their respective employees or sub-contractor(s) shall be liable to the other party, any successors in interest, partner, parent company, subsidiary, or any beneficiary, trustee, receiver, or assignee for indirect, economic, punitive, incidental, special exemplary or consequential loss or damages arising out of or relating to a breach of this Agreement, whether based upon loss of use or lost profits, revenue or

interest, or otherwise, whether or not such loss or damage is based on contract, warranty, negligence, indemnity or otherwise.

Notwithstanding anything to the contrary, contained in this Agreement, the aggregate liability of Jacques Whitford for any and all claims, damages, injuries, losses (including reasonable lawyers' fees and legal costs) and other liabilities of any kind under this Agreement, including, without limitation, for negligence, professional negligence, and breach of contract, fundamental or otherwise, shall not exceed \$50,000.

**14. Unexpected Contingencies** For the purposes of this Agreement, an "Unexpected Contingency" shall mean (i) any consequence arising out of inaccurate information, advice, or instructions provided by the Client or any third party, (ii) strikes, walkouts, riots, unavoidable accidents, inclement weather, acts of God or a public enemy, or unavailability of transportation, (iii) any lawful order issued by a government authority with jurisdiction at the location of the Services, (iv) any unforeseen or unexpected contingency, the nonoccurrence of which was expressly or impliedly assumed in the Agreement, or (v) any other cause beyond Jacques Whitford's reasonable control.

If (i) Jacques Whitford is unable to commence or complete the Services within the time set forth in a Work Order because of any Unexpected Contingency, or (ii) Jacques Whitford's performance of any covenant, agreement, condition or term of this Agreement is prevented, delayed, made impossible or otherwise interfered with by an Unexpected Contingency, then both parties agree to negotiate the appropriate completion of the Services. Jacques Whitford shall not be liable under any circumstances to the Client for any failure of Jacques Whitford to perform the Services to the extent that such failure is caused in whole or in part by any Unexpected Contingency.

**15. Disputes** All disputes arising out of or in connection with, or relating to the interpretation or breach of, this Agreement ("Disputes") shall be referred by either party to the parties' respective senior representatives for such purpose, who shall meet and attempt in good faith to resolve the Dispute within a period of not more than ten (10) days from the date of referral. If the Dispute can not be resolved as described above, alternate methods such as mediation or arbitration will be used, as agreed by both parties.

**16. Language** The parties acknowledge that they are satisfied that this Agreement and all documents relating hereto be drawn up in the English language. Les parties aux présentes acceptent que la présente entente, ainsi que tous documents reliés, soient rédigés en anglais.

**17. Miscellaneous**

- a) The headings in this Agreement are for convenience and shall not affect the construction hereof.
- b) This Agreement shall be governed by and interpreted in accordance with the provincial laws of Nova Scotia and the federal laws of Canada applicable therein.
- c) This Agreement, being the terms and conditions set out in this agreement, all Work Orders including any proposals attached to a Work Order, and any changes to Work Orders, shall constitute the entire agreement between the parties with respect to the Services and supersedes all prior agreements relating to the Services and may not be amended except in writing signed by both parties.
- d) All terms and provisions shall be binding upon and enure to the benefit of and be enforceable by the parties and their executors, heirs, administrators, receivers, trustees, permitted assignees, and successors, provided that no party may assign its rights or obligations under this Agreement without the prior written consent of the other party.



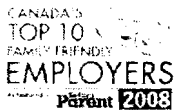
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**Jacques  
Whitford**  
An Environment  
of Exceptional  
Solutions

**CONFIDENTIAL**

VIA E-MAIL – [wollaston@bellnet.ca](mailto:wollaston@bellnet.ca)

Proposal No. 1037882.01

November 4, 2008

Ms. Marilyn Brickles, Clerk-Treasurer/Tax Collector  
Wollaston Township  
P.O. Box 99  
Coe Hill, ON K0L 1P0

Dear Ms. Brickles:

**Re: Revised 2008 Groundwater/Surface Water/Residential Water Monitoring  
Program - Wollaston Waste Disposal Site  
Provisional Certificate of Approval No. A362901**

Jacques Whitford Limited (Jacques Whitford) is pleased to provide this scope of work and cost estimate to conduct the 2008 annual monitoring for the Wollaston Waste Disposal Site to assess groundwater and surface water conditions at the Site.

The scope of work was developed based on comments received from the Ministry of Environment (MOE) dated July 31, 2007, the recommendations outlined in Jacques Whitford's 2006 Annual Report for the Site, dated March 31, 2007, and the approved proposal for the groundwater monitoring well installation program dated October 17, 2008.

## 1.0 ANNUAL MONITORING PROGRAM

Work completed as part of the 2007 Annual Monitoring Program included:

- Surface water monitoring in the spring and autumn of 2007;
- Groundwater monitoring in the spring and autumn of 2007; and,
- Preparation of the annual monitoring report.

Based on the investigation outlined above, the 2007 Annual Monitoring Program concluded:

- Drainage near the site flows toward a low-lying wet area located at the southwest. Surface water in this wet area continues to drain southward towards Wollaston Lake located approximately 2 km south of the site.
- At the present time, the landfill operations do not appear to be having an adverse affect on the local groundwater quality. However, the influence of the landfill site on the local groundwater quality is difficult to accurately determine with the current groundwater monitoring network.

**Jacques Whitford** ©2008



- Monitoring well TW3 is a bedrock well located up gradient of the landfill footprint. Based on a memorandum from the Ministry of the Environment (MOE) dated 31 July 2007, samples collected from TW3 are representative of background water quality, and as such, will continue to be used for determining background groundwater conditions at the site.
- Monitoring well TW2 appears to be in disrepair, and has not been included in the annual monitoring program since 2005. Future samples cannot be collected until this well is repaired.
- The surface water quality at surface water monitoring stations SW2 and SW3 appear to remain consistent with those observed since the November 2006 sampling event. Surface water monitoring station SW4 was dry during both monitoring events in 2007.

Based on the results of the 2007 monitoring program, Jacques Whitford recommends the following actions regarding the 2008 Annual Monitoring Program:

- The surface water monitoring program should be continued in 2008 and samples should be collected from all three (3) of the surface water sampling stations for both the spring and autumn and analyzed for the parameters listed in Table No. 1.
- The groundwater monitoring program should be continued in 2008 from the four (4) accessible groundwater monitoring wells (TW1S, TW1D, TW3, H1) for both the spring and autumn and analyzed for the parameters listed in Table No. 2. Since TW2 is in disrepair and can no longer be monitored, it should be removed and/or fixed for the monitoring program in 2008.

Recommendations regarding additional subsurface investigations and monitoring well installations, as recommended in the 2007 Annual Monitoring Report have been addressed in the approved proposal for the groundwater monitoring well installation program dated October 17, 2008.

## 2.0 SCOPE OF WORK

In order to address the recommendations on further assessment of the impact of leachate on the local ground water regime, Jacques Whitford proposed a groundwater monitoring well installation program. The groundwater monitoring well installation program is in support of the proposed expansion of the Wollaston Waste Disposal Site, under the MOE Provisional Certificate of Approval No. A363901, and was approved by the Township on October 21, 2008.

The following scope of work for the 2008 Annual Monitoring Program will incorporate monitoring and sampling of existing monitoring wells for the spring monitoring event, plus the additional monitoring well locations as outlined in the groundwater monitoring well installation program and one (1) residential well (located east of the site).

The scope will include the following tasks:

- Groundwater: Water levels will be measured and groundwater samples will be collected in five (5) existing monitoring wells in spring of 2008. As outlined in the groundwater monitoring well installation program, one (1) the five (5) existing monitoring wells will be decommissioned and an additional 8 groundwater monitoring well locations will be monitored and sampled in the fall of 2008.
- For Quality Assurance/Quality Control (QA/QC) purposes, one (1) duplicate groundwater sample will be collected in the spring and fall sampling events, in general accordance with MOE requirements.
- Surface water: Surface water measurements will be obtained and samples will be collected at three



fax: 705 740 2273  
[www.jacqueswhitford.com](http://www.jacqueswhitford.com)

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(3) existing surface water sample stations (SW2, SW3 and SW4) twice per year (spring and fall).

- Residential drinking water: One (1) water sample will be collected from the drilled residential drinking water well (installed in 2007) at the residence located 250 meters east of the Site in the fall of 2008.
- Water samples will be field tested for pH, conductivity, dissolved oxygen and temperature, and analysed by an accredited laboratory certified by the Canadian Association of Environmental Analytical Laboratories (CAEAL) per MOE requirements.
- The laboratory analysis will be based on the parameter suite presented as leachate indicator parameters in Column 2 of Schedule 5 of the MOE Landfill Standards: A Guideline on the Regulatory and Approval Requirements for New or Expanding Landfill Sites, dated May 1998. Groundwater and surface water sample analysis will be consistent with the 2007 monitoring program, and as outlined in Tables 1 and 2, respectively. Residential drinking water samples will be analyzed based on parameters listed in Table 3.

**Table 1: Surface Water Analytical Parameters**

Alkalinity	Magnesium
Aluminum	Manganese
Ammonia	Mercury
Arsenic	Nickel
BOD <sub>5</sub> (Biological O <sub>2</sub> Demand)	Nitrate
Boron	Nitrite
Cadmium	pH
Calcium	Phenols
Chloride	Phosphorous
Chromium	Potassium
Cobalt	Selenium
COD (Chemical O <sub>2</sub> Demand)	Silver
Conductivity	Sodium
Copper	Sulphate
Fluoride	Total Dissolved Solids (TDS)
Hardness	Total Kjeldahl Nitrogen (TKN)
Iron	Total Organic Carbon
Lead	Zinc





**Table 2: Groundwater Analytical Parameters**

Alkalinity	Manganese
Ammonia	Nitrate
Barium	Nitrite
Boron	pH
BOD <sub>5</sub> (Biological O <sub>2</sub> Demand)	Phenols
COD (Chemical O <sub>2</sub> Demand)	Phosphorous
Calcium	Potassium
Chloride	Sodium
Conductivity	Sulphate
Dissolved Organic Carbon (DOC)	Total Dissolved Solids (TDS)
Fluoride	Total Suspended Solids (TSS)
Hardness	Total Kjeldahl Nitrogen (TKN)
Iron	Total Organic Carbon (TOC)
Magnesium	

**Table 3: Residential Drinking Water Analytical Parameters**

Alkalinity	Manganese
Ammonia	Nitrate
Barium	Nitrite
Boron	pH
BOD <sub>5</sub> (Biological O <sub>2</sub> Demand)	Phenols
COD (Chemical O <sub>2</sub> Demand)	Phosphorous
Calcium	Potassium
Chloride	Sodium
Conductivity	Sulphate
Dissolved Organic Carbon (DOC)	Total Dissolved Solids (TDS)
Fluoride	Total Suspended Solids (TSS)
Hardness	Total Kjeldahl Nitrogen (TKN)
Iron	Total Organic Carbon (TOC)
Magnesium	



- A qualified surveyor will be contracted to survey the landfill and surrounding area to determine the extent of landfill material deposited at the site in 2008. The surveyor will also address the elevations of the newly installed monitoring wells so potentiometric groundwater data may be evaluated. The data collected from the survey will be included the annual monitoring report.
- Once data has been collected, tabulated and reviewed, an annual monitoring report will be prepared that will detail the groundwater, surface water and residential water conditions at the site. The report will contain information on the subsurface conditions encountered at the site during the drilling program conducted in November 2008, as well as relevant operational information and survey data. The report will advise on any modifications to the sampling program and recommendations where appropriate will be provided.

### 3.0 SCHEDULE

The schedule assumes written authorization to proceed will be granted by Wollaston Township.

We propose that the field work for the spring and fall monitoring/sample collection be completed during the months of May and November, 2008, respectively. The site will be surveyed in January 2009 to ensure an accurate determination of 2008 landfill data is obtained.

It is anticipated that the report will be completed in draft form to the Township by March 10, 2009. A final report will be ready for submission to the MOE by March 22, 2009.

### 4.0 COSTING

The following estimated costs are expected for the provision of the services proposed above.

Task	Professional Fees	Disbursements	Total Cost (per task)
1. Project Management	\$1,290	NA	\$1,290
2. Water Monitoring, Sampling and Analysis (Spring 2008 sampling event)	\$1,920	\$420	\$2,340
4. Water Monitoring, Sampling and Analysis (Fall 2008 sampling event)	\$2,820	\$560	\$3,380
5. Laboratory Analysis (Spring 2008 sampling event)	NA	\$1,989	\$1,989
6. Laboratory Analysis (Fall 2008 sampling event)	NA	\$3,757	\$3,757
7. Subcontractor Costs – Site Survey	NA	\$1,450	1,450
8. Report Preparation	\$2,465	NA	\$2,465
9. Administration Fees (9% of Professional Fees)	\$764	NA	\$764
<b>TOTAL (excluding GST)</b>			<b>\$17,435</b>



The 2008 Annual Monitoring Program is anticipated to amount to \$17,135, with Jacques Whitford fees amounting to approximately \$9,259. It is anticipated that subcontractor and disbursement costs will amount to approximately \$8,176. The above costs include all professional and technical fees as well as external disbursements for laboratory analysis and equipment rental. The costs are based on best available information on the site, and quotations obtained from qualified local subcontractors. Although costs may vary between parts of the work program, the total collective costs from the items quoted will not be exceeded without authorization from Wollaston Township. In the event that we encounter poor subsurface conditions and the costs for conducting subsurface work may be exceeded, we will discuss with Wollaston Township prior to authorizing the contractor to proceed.

Additional scope requirements may include, but not limited to: correspondence with the MOE and addressing their comments as appropriate; presentation to council regarding the progress of the WDS project; additional site visits to obtain additional information not addressed herein, etc. Our costs will be billed on a time and materials basis.

It is anticipated that project management tasks will be completed by Mr. Jeffrey Van Egmond, Project Manager for the Peterborough Office. Senior consulting tasks will be provided by Eric Veska, on an as-needed basis. Technical field, drafting and administrative tasks will be provided by the most qualified person for the task. Jacques Whitford professional fees will be based on the schedule of hourly rates as indicated below:

Jacques Whitford Personnel	Hourly Rate
Senior Consultant and Technical Advisor	\$125
Project Manager and Intermediate Scientist	\$100
Junior Scientist	\$85
Field Technician	\$75
Drafting and Administrative	\$45

We anticipate that invoicing will be done on a monthly basis upon satisfactory completion of the work as specified in this scope of work and our invoice would be paid within 30 days of receipt.



## 5.0 CLOSURE

We trust that this proposal meets the needs of Wollaston Township for the 2008 Annual Monitoring Program. Please note that all work will be conducted in accordance with our Standard Terms and Conditions, attached in Appendix A.

Upon acceptance of this proposal, we will require you to sign and return the work order by fax to 705-740-2273 in order that we may proceed with the proposed work. If you have any questions or comments, please contact the undersigned directly. Thank you.

Yours truly,

**JACQUES WHITFORD**

*Original Signed on File:*

Amanda Inglis-Petahtegoose, A.Sc.T.  
Proposal Author

*Original Signed on File:*

Jeffrey Van Egmond  
Project Manager, Peterborough Office

*Original Signed on File:*

Eric Veska, Ph.D., P. Geo.  
Senior Reviewer

AIP/JVE/EV/td  
Enclosure

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