

**Ministry of Tourism, Culture and Sport**

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**Ministère du Tourisme, de la Culture et du Sport**

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Jul 12, 2017

Katherine Hull (P128)  
ASI Archaeological and Cultural Heritage Services  
528 Bathurst Toronto ON M5S 2P9

**RE: Review and Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "STAGE 3 SITE SPECIFIC ASSESSMENT SIMCOE ENVIRONMENTAL RESOURCE RECOVERY CENTRE GRIBBIN SITE (BDGW-49) PART OF LOT 2, CONCESSION I, FORMER FLOS TOWNSHIP NOW SPRINGWATER TOWNSHIP, COUNTY OF SIMCOE, ONTARIO", Dated Apr 17, 2017, Filed with MTCS Toronto Office on Apr 27, 2017, MTCS Project Information Form Number P128-0150-2016, MTCS File Number 0005412**

Dear Dr. Hull:

This office has reviewed the above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18.<sup>1</sup> This review has been carried out in order to determine whether the licensed professional consultant archaeologist has met the terms and conditions of their licence, that the licensee assessed the property and documented archaeological resources using a process that accords with the 2011 Standards and Guidelines for Consultant Archaeologists set by the ministry, and that the archaeological fieldwork and report recommendations are consistent with the conservation, protection and preservation of the cultural heritage of Ontario.

The report documents the Stage 3 assessment of one archaeological site located within the study area as depicted in Figure 1 of the above titled report and Figure 3 of the Supplementary Documentation. The report recommends the following:

1. The Gribbin site (BdGw-49) represents a mid-nineteenth century Euro-Canadian archaeological resource with cultural heritage value or interest. Given that this site is located on a section of the County of Simcoe's property that will not be impacted by the Environmental Resource Recovery Centre, it has been determined that avoidance and long-term protection is the preferred approach to the Stage 4 mitigation of impacts.

We offer the following strategy to ensure that the site is avoided and protected during construction of the Environmental Resource Recovery Centre.

a. The proponent's engineer must provide a letter and documentation detailing their support of the long term protection and avoidance strategy.

A letter from Simcoe County addressing their support for long term protection and avoidance of the Gribbin

Site is included in the Supplementary Documentation Report.

b. Appropriate avoidance and protection measures must be established to protect the site from any impacts related to the construction and installation of the Environmental Resource Recovery Centre.

A conceptual site plan showing the location and extent of the Gribbin site (BdGw-49) and 10 metre buffer area or no-go zone as defined in S &G Section 4.1 Standard 2 b is included in the Supplementary Documentation report.

A buffer of 10 m has been established around the Gribbin site (BdGw-49) as a no-go zone for any construction activity.

No construction activity is anticipated to occur within approximately 85 metres of the protected site area. To ensure that the site is protected from any inadvertent impacts, the following detailed avoidance strategy has been committed to by the Proponent (see letter provided in Supplementary Documentation report) and will remain in place until the project construction is finished and the required Stage 4 avoidance and protection process for the Gribbin site (BdGw-49) has been completed:

i. Prior to any construction activity in the vicinity, temporary fencing or a similar barrier will be erected around the site and its 10 m protective buffer within the Project lands to define the no-go area.

ii. written and verbal instructions will be provided to all on site construction personnel working within the Project lands to avoid the location of the site and its protective 10 m buffer;

iii. the location of the area to be avoided will be included on all relevant contract drawings, including explicit instructions to avoid that area, when applicable;

iv. any construction activity that is undertaken adjacent to the Gribbin site and the 10 m buffer, including the installation of fencing, will be monitored by a licensed archaeologist who will be empowered to stop construction if there is concern the archaeological site is being impacted.

v. Once the project construction is complete ASI will inspect and report to MTCS on the effectiveness of the above strategy to avoid and protect the Gribbin site (BdGw-49).

2. To support the long-term protection of the Gribbin site (BdGw-49) and its 10 m protective buffer we recommend that Simcoe County put in place a condition of site plan approval to ensure the archaeological site is protected on a long-term basis. Further, Simcoe County must ensure that the following conditions will be met:

a. The condition of site plan approval put in place by Simcoe County must clearly set out how the protection of the Gribbin site is to be addressed in the future, including the definition of steps for further protection or excavation by a licensed archaeologist;

b. The allowable uses for the protected site area must be defined and shall not include any activities that involve even minor forms of soil disturbance, such as minor landscaping, and tree removal;

c. Simcoe County must provide documentation confirming their awareness of their obligations for the protection of the Gribbin site and their willingness and capacity to fulfill those obligations.

Documents from Simcoe County supporting the long-term protection of the Gribbin site are located in Supplementary Documentation - Site Location & Avoidance and Protection Strategy, Appendix A and B;

Based on the information contained in the report, the ministry is satisfied that the fieldwork and reporting for the archaeological assessment are consistent with the ministry's 2011 Standards and Guidelines for Consultant Archaeologists and the terms and conditions for archaeological licences. This report has been entered into the Ontario Public Register of Archaeological Reports. Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register.

Should you require any further information regarding this matter, please feel free to contact me.

Sincerely,

Shari Prowse  
Archaeology Review Officer

cc. Archaeology Licensing Officer  
Brian Dermody, GHD  
Stephanie Mack, County of Simcoe

<sup>1</sup>In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.

## Thompson, Tiffany

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**From:** Westendorp, Nathan  
**Sent:** Tuesday, November 14, 2017 7:41 AM  
**To:** Mack, Stephanie  
**Cc:** ERRC; Thompson, Tiffany  
**Subject:** FW: Simcoe ERRC - Traffic Impact Study Addendum  
**Attachments:** 086822Marchand-2.pdf

FYI

Nathan Westendorp  
Manager of Development  
County of Simcoe  
705-726-9300 Ext. 1002

---

**From:** Claude Marchand [mailto:marchand@ainleygroup.com]  
**Sent:** Monday, November 13, 2017 1:31 PM  
**To:** Brian Dermody <Brian.Dermody@ghd.com>  
**Cc:** Parks, David <David.Parks@simcoe.ca>; Westendorp, Nathan <Nathan.Westendorp@simcoe.ca>; Brent Spagnol <Brent.Spagnol@springwater.ca>; Tammy Kalimootoo <kalimootoo@ainleygroup.com>  
**Subject:** FW: Simcoe ERRC - Traffic Impact Study Addendum

Good afternoon Brian,

We have reviewed the **Traffic Impact Study Addendum** dated October 23rd, 2017 in support of the County's Environmental Resource Recovery Centre, further to our previous review comments of January 24, 2017 on behalf of the Township of Springwater. Based on the responses prepared by WSP / MMM, we generally concur with the consultants' conclusions with respect to traffic impacts from this project.

Regards,

Claude Marchand, CET  
Senior Engineering Technologist



550 Welham Road  
Barrie, Ontario, L4N 8Z7  
[marchand@ainleygroup.com](mailto:marchand@ainleygroup.com)  
Tel: (705) 726-3371 Ext. 235  
Fax: (705) 726-4391  
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**From:** [Brian.Dermody@ghd.com](mailto:Brian.Dermody@ghd.com) [mailto:Brian.Dermody@ghd.com]  
**Sent:** November-03-17 5:13 PM

**To:** Claude Marchand; Parks, David  
**Cc:** Brent Spagnol; Westendorp, Nathan  
**Subject:** Simcoe ERRC - Traffic Impact Study Addendum

Claude/David,

Please find attached an Addendum to the Traffic Impact Study previously submitted in support of the County of Simcoe's proposed Environmental Resource Recovery Centre at 2976 Horseshoe Valley Road West in the Township of Springwater. A hard copy of the Addendum will also be sent by regular mail.

We trust that this Addendum addresses all review comments. To further the Planning process, we kindly request that Ainley provide a response confirming that they are satisfied with the TIS Addendum by Friday, November 17, 2017.

Please don't hesitate to contact me if you require anything further.

Regards,  
Brian

**Brian Dermody, P Eng**

**GHD**

T: 1 416 866 2361 | M: 1 416 262 1256 | E: [brian.dermody@ghd.com](mailto:brian.dermody@ghd.com)  
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**Ministry of  
Municipal Affairs**

**Ministère des  
Affaires municipales**



**Ministry of Housing**

**Ministère du Logement**

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Bureau des services aux municipalités  
du Centre de l'Ontario  
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Toronto ON M5G 2E5  
Téléphone : 416 585-6226  
Télécopieur : 416 585-6882  
Sans frais : 1 800-668-0230

November 15, 2017

*Sent via email only*

Nathan Westendorp, MCIP RPP  
Manager of Development  
Planning, Development & Tourism Department  
County of Simcoe  
1110 Highway 26  
Midhurst ON L9X 1N6

Dear Mr. Westendorp:

**Subject: GHD Limited memo regarding County of Simcoe Environmental  
Resource Recovery Centre and Growth Plan for the Greater Golden  
Horseshoe, 2017  
MMA File #: 43-OP-169096**

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This is a response to GHD Limited's October 20, 2017 memorandum, prepared for the Ministry of Municipal Affairs (MMA) to review, with respect to the County of Simcoe's (County) Environmental Resource Recovery Centre (ERRC) and how this project fits within the updated land use policy framework of the Growth Plan for the Greater Golden Horseshoe, 2017 (2017 Growth Plan) which came into effect on July 1, 2017. GHD's memorandum provides background and the policy and regulatory framework context that guided the decisions that led to the site selected for the ERRC, including the applicable provincial land use planning policies. As the selected site is located in the proposed provincial mapping of the Natural Heritage System for the Greater Golden Horseshoe, this memorandum articulates the County's position that this waste management infrastructure, as outlined in the Waste Management Projects Regulation (O. Reg. 101/07) under the Environmental Assessment (EA) Act, be considered "infrastructure authorized under an environmental assessment process" pursuant to 2017 Growth Plan policy 4.2.3.1 (c).

Through the Provincial One Window Planning Service, a copy of the GHD Limited memorandum and request for 2017 Growth Plan policy clarification was provided to the

Ministry of the Environment and Climate Change (MOECC) as the lead provincial ministry responsible for environmental legislation, including the EA Act. The MOECC has clear EA requirements for waste diversion and disposal facilities through O. Reg. 101/07 under the EA Act. To improve the EA process and give municipalities more effective tools for managing waste, in 2007 the province passed this regulation which exempts certain types of projects from the requirements of the EA Act. As the County's ERRC is exempt from the requirements of the EA Act through this regulation, it may be considered as "infrastructure authorized under an environmental assessment process" for the purposes of 2017 Growth Plan policy 4.2.3.1 (c). Further, it is acknowledged the ERRC project would still be subject to the approval requirements under other environmental legislation, such as the Environmental Protection Act.

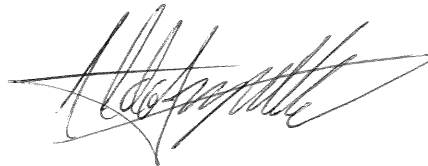
We understand the County is in the process of addressing the provincial comments outlined in MMA's April 7, 2017 letter regarding the initial draft County Official Plan Amendment and supporting studies. It is anticipated that the County will be updating these studies and documents to support the planning applications for the ERRC, ensuring the objectives and outcomes articulated in provincial land use policies of the 2017 Growth Plan and 2014 Provincial Policy Statement are addressed.

Should you have any questions, do not hesitate to contact Ross Lashbrook, Manager, Community Planning and Development at (416) 585-6063 or by email at [ross.lashbrook@ontario.ca](mailto:ross.lashbrook@ontario.ca) or Aldo Ingraldi, Senior Planner at (416) 585-6154 or by email at [aldo.ingraldi@ontario.ca](mailto:aldo.ingraldi@ontario.ca).

Sincerely,



Ross Lashbrook  
Manager, Community Planning and  
Development



Aldo Ingraldi, MCIP, RPP  
Senior Planner, Community Planning  
and Development

- c. David Parks, County of Simcoe  
Blair Shoniker, GHD Limited  
Paul Martin, MOECC  
Tina Dufresne, MOECC

## Thompson, Tiffany

---

**From:** Westendorp, Nathan  
**Sent:** Tuesday, November 21, 2017 3:29 PM  
**To:** ERRC  
**Cc:** Mack, Stephanie; Thompson, Tiffany  
**Subject:** FW: ERRC Official Plan Amendment - Traffic Impact Study Addendum

For the file and your information.

Nathan Westendorp  
Manager of Development  
County of Simcoe  
705-726-9300 Ext. 1002

---

**From:** Meile, Christian  
**Sent:** Tuesday, November 21, 2017 1:56 PM  
**To:** Westendorp, Nathan <Nathan.Westendorp@simcoe.ca>  
**Cc:** Doherty, Chris <Chris.Doherty@simcoe.ca>  
**Subject:** ERRC Official Plan Amendment - Traffic Impact Study Addendum

Hello Nathan,

We have reviewed the Traffic Impact Study (TIS) addendum recently submitted by GHD in response to the Ainley comments on behalf of the Township of Springwater. We have no further comments.

Let us know if you have any questions.

Regards,

Christian





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## MEMORANDUM

**DATE:** February 16, 2018  
**TO:** Tiffany Thompson, Planner III  
**FROM:** Chris Doherty, Engineering Technician  
**SUBJECT:** Environmental Resource Recovery Centre - Traffic Impact Study Addendum

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Tiffany,

I have reviewed the ERRC Traffic Impact Study Addendum dated October 2017 submitted by WSP/MMM and find their responses to the review agency comments acceptable.

CD

## Thompson, Tiffany

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**From:** Scott Drewette <Scott.Drewette@barrie.ca>  
**Sent:** Friday, March 02, 2018 11:58 AM  
**To:** Mack, Stephanie  
**Cc:** Thompson, Tiffany; McCullough, Rob  
**Subject:** RE: County of Simcoe - Environmental Resource Recovery Centre

Hi Stephanie,

Thanks for the reminder!

I've prepared my response as an email below, please let me know if you would prefer to have it as a letter.

Thank you for inviting me to discuss the potential drinking water source protection implications related to the County of Simcoe's proposed Environmental Resource Recovery Centre (ERRC) project at 2976 Horseshoe Valley Road West in the Township of Springwater.

Having reviewed the materials provided by email on December 21, 2017 as well as the presentation provided during our meeting at the County of Simcoe Administration Centre on January 23, 2018, I am in agreement that the proposed activity would not be considered a significant drinking water threat at this location according to the framework legislated under the Clean Water Act (CWA). In addition, the site selection process included criteria to be protective of the Township of Springwater's drinking water sources beyond the requirements of the CWA.

It was also noted during our meeting that numerous measures are planned that will contribute to protection of groundwater in the area of the facility, including the following:

- All waste processing activities at the facility will be contained indoors, with receipt of waste materials occurring indoors with doors closed and limited potential for runoff to occur
- All waste processing activities will be conducted on impermeable surfaces
  - The facility will have concrete floors and a redundant clay liner
  - Outdoor operational areas will be paved
- All main functions of the facility are to occur above ground
- All process water from the facility is to be contained, collected, and either treated on-site or trucked off-site for treatment

Although not explicitly required as a result of the CWA or Source Protection Plan policies, I would recommend that the above measures, at a minimum, be included in the final design of the site to ensure the protection of the groundwater sources in the area of the facility.

Based on the site selected and the proposed protective measures, I am satisfied that the planning of this project to-date has adequately considered the protection of the Township of Springwater's municipal drinking water sources.

Thank you again for your ongoing cooperation in protecting our sources of drinking water.

Sincerely,

**Scott Drewette, C.E.T.**  
Risk Management Official  
City of Barrie  
Tel: 705-739-4220 ext. 4796

---

**From:** Mack, Stephanie [mailto:Stephanie.Mack@simcoe.ca]  
**Sent:** February 23, 2018 2:34 PM  
**To:** Scott Drewette <Scott.Drewette@barrie.ca>  
**Cc:** Thompson, Tiffany <Tiffany.Thompson@simcoe.ca>  
**Subject:** County of Simcoe - Environmental Resource Recovery Centre

Good afternoon, Scott. My apologies for not being able to attend the meeting with our Environmental Resource Recovery Centre Project Team on January 23. Our team found the meeting helpful and we appreciated your time. Moving forward, it's my understanding that you will provide written confirmation that you are satisfied and that Source Protection has been adequately considered and addressed.

For reference, note that updated technical studies for the project (including the Updated Hydrogeological Assessment) have been posted to our Planning Department's [webpage](#). Please let us know if you require any additional information. Thanks again.

**Stephanie Mack, P.Eng.**  
**Special Projects Supervisor**  
County of Simcoe, Solid Waste Management  
1110 Highway 26, Midhurst, ON L9X 1N6  
Phone: (705) 726-9300 ext. 1924, Cell: (705) 794-0605  
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February 22<sup>nd</sup>, 2018

File No. 216134

**“By E-MAIL only”**

Township of Springwater  
2231 Nursery Road  
Minesing, ON  
L9X 1A8

Attn: **Brent Spagnol, MCIP, RPP**  
**Director of Planning Services and By-law Enforcement**

Ref: **County of Simcoe**  
**Environmental Resource Recovery Centre**  
**Final Submission of Supporting Studies**

Dear Brent,

We are in receipt of the recent final reports prepared and submitted by GHD in support of the County of Simcoe – Environmental Resource Recovery Centre site plan at #2976 Horseshoe Valley Road West. This submission intends to demonstrate support for amendments to the County and Township Official Plans as well as the Township’s Zoning By-Law. Our review includes the following documents;

- Amended Facilities Characteristics Report; GHD, Feb. 1, 2018
- Amended Scoped Environmental Impact Study; GHD, Feb. 1, 2018
- Updated Hydrogeological Assessment; GHD, Feb. 1, 2018
- Geotechnical Investigation Report; GHD, Nov. 30, 2017
- Traffic Impact Study Addendum; MMM Group Ltd., Oct. 23, 2017

Based on our review of the supporting documentation, we offer the following minor comments for your consideration;

#### **Facilities Characteristics Report**

Based on our review of the amended report and the summary table of responses to our previous review comments, we generally concur with the consultants’ conclusions and recommendations for servicing this site. We further note the additional description of Air Quality Impact Assessment, as well as the conceptual fire protection approach. We have no further concerns at this time and look forward to the consultants’ detail design submissions to thoroughly evaluate the site servicing for the proposed facility.

#### **Scoped Environmental Impact Study**

We have reviewed the amended report and have no further concerns at this time. We look forward to the consultants’ preparation of an Environmental Management Plan as part of the detail design submissions.

### **Updated Hydrogeological Assessment**

We once again referred the review of the Updated Hydrogeological Assessment report to Terraprobe Ltd. The sub-consultant's review comments are appended to this letter for your information. In summary, we look forward to the consultants' detail design submissions to address the hydrogeological aspects of site servicing.

### **Geotechnical Investigation Report**

The report provides extensive geotechnical data that will provide valuable information to the designer. We note that boreholes advanced within the proposed Stormwater Management facility area identify layers of silts and clays. The report make reference to utilizing these fine grained native materials as an impervious quality control layer, however, the author does not provide any input on free draining soils in this area that would accommodate Low Impact Development features, promote infiltration and reduce peak run-off flows. The detail design should be cognizant of the native soils' capacity to infiltrate all rainfall events in this area, as previously identified in the Site Characteristics Report – Proposed Stormwater Management Controls.

### **Traffic Impact Study Addendum**

We have reviewed the TIS Addendum and generally concur with the consultants' conclusions. We have no further concerns at this time.

We trust this is satisfactory. Should you require any further input, please do not hesitate to contact the undersigned.

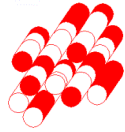
Yours truly,  
**AINLEY & ASSOCIATES LIMITED**



Claude Marchand, CET  
Senior Engineering Technologist

Encl.

PC: Heather Coleman – Springwater  
Brian Dermody - GHD



# Terraprobe

Consulting Geotechnical & Environmental Engineering  
Construction Materials Engineering, Inspection & Testing

February 13, 2018

File No. 3-16-0238-47  
Barrie Office

Springwater Township  
c/o Ainley Group  
550 Welham Road  
Barrie, ON L4N 8Z7

Attention: Claude Marchand, CET

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**RE: GHD RESPONSE REVIEW  
ENVIRONMENTAL RESOURCE RECOVERY CENTRE  
2976 HORSESHOE VALLEY ROAD WEST, SPRINGWATER, ONTARIO**

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Dear Mr. Marchand,

Terraprobe Inc. (Terraprobe) was retained by Springwater Township (Springwater) to prepare a review of the responses and updated documents provided in regards to the Environmental Resource Recovery Centre (ERRC) located at 2976 Horseshoe Valley Road West, Springwater, Ontario.

## 1.0 DOCUMENTATION PROVIDED

The following document was provided to Terraprobe for the preparation of this review:

- *Updated Hydrogeological Assessment, Environmental Resource Recovery Centre (ERRC), 2976 Horseshoe Valley Road West, Springwater, Ontario* prepared by GHD., February 1, 2018
- *Response to Report Review Comments Hydrogeological Assessment Environmental Resource Recovery Centre (ERRC) 2976 Horseshoe Valley Road West, Springwater* prepared by GHD, December 6, 2017

## 2.0 DISCRPTION OF THE ERRC SITE

The County of Simcoe (County) is proposing the development of a co-located Materials Management Facility (MMF) and Organics Processing Facility (OPF) to address needs for the consolidation, transfer, and processing of waste materials. The OPF, MMF, and ancillary facilities (e.g., truck servicing facility, materials recovery facility, administrative facility and public education space, access roads, storm water management pond) are collectively referred to as the Environmental Resource Recovery Centre (ERRC). The preferred site for the development of the ERRC was identified as 2976 Horseshoe Valley Road West (Site) in the Township of Springwater.

### 3.0 COMMENTS

The comments and responses are provided below.

Item #	Original Terraprobe Comment	GHD Response	Terraprobe Response
1	In general, the Hydrogeological Assessment conducted by GHD has used generally accepted professional practices during their assessment, review and interpretation of the hydrogeological conditions at the site.	Acknowledged. No further action required.	No further action required.
2	Terraprobe agrees with the GHD conclusion that a PTTW or an EASR posting from the MOECC will not be required for water takings relating to construction activities at the site.	Acknowledged. No further action required.	No further action required.
3	Terraprobe agrees with the GHD conclusion that the deep water table and sandy soils have the potential to facilitate the infiltration of allcollected storm water post development. Implementation of infiltration measures for the post development condition will be required.	<p>Details of the proposed stormwater management system, including potential infiltration measures will be developed as part of the detailed design for the Materials Management Facility (MMF) in support of the Site Plan Approval and Environmental Compliance Approval. This will also include consideration for using stormwater to support the proposed fire protection systems.</p> <p>Further consideration will be given to using this water to supplement process water requirements during the development of the detailed design for the Organics Processing Facility (OPF). Amendments to the Site Plan and Environmental Compliance Approval will be submitted as required following completion of the detailed design for the OPF.</p>	Comment requires further action to address. However, GHD has stated that the comment will be addressed in the detailed design for the MMF.

		Further actions to address these comments include the completion of the detailed design for the MMF, including the stormwater management system, and the detailed design for the OPF, including potential modifications to the stormwater management system to allow for the use of water for processing operations or fire protection.	
4	The water demand of ERRC facility, and therefore the water taking of the proposed supply well, should be further evaluated to demine an estimated daily flow volume. If the water requirement does exceed 50,000 L/day, then a Category 3 PTTW for long term water takings will be required for the facility.	Details of the required water demand of the ERRC will be developed as part of the detailed design for the MMF and the OPF in support of the Site Plan Approval and Environmental Compliance Approval. If it is determined that more than 50,000 litres of water will be required per day, then a Permit to Take Water (PTTW) application will be submitted to the MOECC. Further actions to address these comments include completion of the detailed design for the Administrative Facility, MMF, and OPF, including the potable water requirements and application for a PTTW, if required.	Comment requires further action to address. However, GHD has stated that the comment will be addressed in the detailed design for the MMF.
5	Seasonal groundwater level monitoring has not been undertaken to confirm the seasonal ground water levels and flow direction. If the new ground water levels and flow direction are substantially different then what has been found to date (i.e. the water table is much shallower then has been observed to date), the conclusions and recommendations of the report may have to be reevaluated. GHD has indicated that this will be undertaken, but was not included as part of the report reviewed.	<p>Groundwater level monitoring was undertaken from August 2016 to November 2017 to assess seasonal groundwater level fluctuations. Manual groundwater level measurements were collected bi-monthly using a water level meter (from August 2016 to February 2017), and electronic water level dataloggers were installed in selected monitoring wells as well as in each of the minipiezometers for continuous water level measurements (from August 2016 to November 2017).</p> <p>The groundwater table is encountered over the majority of the ERRC area at depths of more than 10 mBGS. The water table elevations range from approximately 233 to 237 mAMSL. Based on the seasonal groundwater level measurements, groundwater flow direction is to the northwest. Groundwater levels fluctuate in the range of 0.5</p>	No further action required.



		to 0.8 metres seasonally, generally decreasing through the late summer fall and winter months, and recover during the spring freshet and early summer months.	
6	The unevaluated wetland near the northeast portion of the Site will constrain storm water management options in that vicinity. Additional evaluation of the wetland area should be undertaken to ensure that drainage patterns are maintained to provide similar hydrologic contributions to this feature.	<p>Monitoring undertaken from August 2016 to November 2017 included the collection of groundwater levels from mini-piezometers installed in the wetland area. The groundwater level monitoring for the mini-piezometers is summarized in the Updated Hydrogeological Assessment Report.</p> <p>The wetland provides recharge to the deeper underlying sand aquifer during the spring freshet, based on the observed mini-piezometer and surface water levels within the wetland area. Additional evaluation of the wetland will be undertaken during the stormwater management design to ensure drainage patterns are maintained to provide similar hydrologic contributions to this feature.</p> <p>Further actions to address these comments include the detailed design of the MMF, including the stormwater management system, and the detailed design for the OPF, including potential modifications to the stormwater management system.</p>	Comment requires further action to address. However, GHD has stated that the comment will be addressed in the detailed design for the MMF.

## 4.0 CLOSURE

We trust this report is sufficiently detailed at this time for your review. Should you have any questions concerning the above, please do not hesitate to contact the undersigned.

Yours truly,

**Terraprobe Inc.**



Matthew J. Bielaski, P.Eng., QP<sub>RA</sub>  
Associate

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70 COLLIER STREET  
TEL. (705) 726-4242  
FAX. (705) 739-4247

The City of  
**BARRIE**

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THE CORPORATION OF THE CITY OF BARRIE  
Engineering Department  
"Committed to Total Service Excellence"

March 7, 2018

RECEIVED

File: A16-CO

Mr. Rob McCullough  
Director of Solid Waste Management  
County of Simcoe  
1110 Highway 26  
Midhurst, ON L9X 1N6

MAR 12 2018

COUNTY OF SIMCOE  
CORPORATE SERVICES DIVISION

Dear Mr. McCullough:

Thank you for inviting me, in my capacity as Risk Management Official for the Township of Springwater, to discuss the potential drinking water source protection implications related to the County of Simcoe's proposed Environmental Resource Recovery Centre (ERRC) project at 2976 Horseshoe Valley Road West in the Township of Springwater.

Having reviewed the materials provided by email on December 21, 2017, as well as the presentation provided during our meeting at the County of Simcoe Administration Centre on January 23, 2018, I am in agreement that the proposed activity would not be considered a significant drinking water threat at this location according to the framework legislated under Ontario's Clean Water Act (CWA). In addition, the site selection process included criteria to be protective of the Township of Springwater's drinking water sources beyond the requirements of the CWA.

It was also noted during our meeting that numerous measures are planned that will contribute to protection of groundwater in the area of the facility, including the following:


- All waste processing activities at the facility will be contained indoors, with receipt of waste materials occurring indoors with doors closed and limited potential for runoff to occur.
- All waste processing activities will be conducted on impermeable surfaces:
  - The facility will have concrete floors and a redundant clay liner; and
  - Outdoor operational areas will be paved.
- All main functions of the facility are to occur above ground.
- All process water from the facility is to be contained, collected, and either treated on-site or trucked off-site for treatment.

Although not explicitly required as a result of the CWA or Source Protection Plan policies, I would recommend that the above measures, at a minimum, be included in the final design of the site to ensure the protection of the groundwater sources in the area of the facility.

Based on the site selected and the proposed protective measures, I am satisfied that the planning of this project to-date has adequately considered the protection of the Township of Springwater's municipal drinking water sources.

Thank you again for your ongoing cooperation in protecting our sources of drinking water.

Sincerely,



Scott Drewette, C.E.T.  
Risk Management Official for the Township of Springwater

cc Mr. David Parks, Director of Planning, Development and Tourism, County of Simcoe  
Mr. Brent Spagnol, Director of Planning Services & Bylaw Enforcement, Township of Springwater



County of Simcoe  
County Forests  
1110 Highway 26,  
Midhurst, Ontario L9X 1N6

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March 27, 2018

Attn. David Parks  
Director of Planning, Development & Tourism

**Re: File SC-OPA-1602; Amended Environmental Impact Study for the ERRC application at 2976 Horseshoe Valley Road West (County Road 22) in Springwater Township**

Thank you for the opportunity to review the subject document. I am in general agreement with the content and conclusions of the Amended EIS and will comment only on the planned relocation of OFSC trail.

Forestry staff work with a variety of stakeholders, keeping the Simcoe County Forest accessible to a wide range of recreational uses while ensuring the protection and sustainability of the Forest. As specified within the 20-year Forest Management Plan, recreational use is directed away from High Conservation Value Forests or other sensitive natural heritage features.

Based upon the recommendations within the subject document, to mitigate any impacts to vegetation, wetlands, wildlife and wildlife habitat as a result of the OFSC trail relocation:

- The wetland features and the old growth hemlock stand in the SE of the property will be avoided and remain undisturbed by relocating the OFSC trail to the west of the ERRC access road and facility footprint;
- Installation of the trail will be completed outside of the breeding bird window;
- Tree removal will be limited by following existing forest access routes to the degree possible;
- Ground disturbance will be minimized by maintaining minimum width requirements of the trail and routing the trail to avoid grading;
- Staff will confirm the exact location of the trail with GHD biologists prior to installation.

A handwritten signature in black ink, appearing to read "Graeme Davis".

Graeme Davis, RPF  
County Forester

**Ministry of  
Municipal Affairs**

**Ministère des  
Affaires municipales**

**Ministry of Housing**

**Ministère du Logement**

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May 3, 2018

*Sent via email only*

David Parks, MCIP, RPP  
Director of Planning, Development and Tourism  
County of Simcoe  
1110 Highway 26  
Midhurst, ON L9X 1N6

Dear Mr. Parks:

**Subject: County of Simcoe Environmental Resource Recovery Centre  
County Initiated Official Plan Amendment  
MMA File No.: 43-OP-169096**

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Thank you for providing the Ministry of Municipal Affairs (“MMA”) with the opportunity to review and provide comments on the draft amendment to the County of Simcoe (“County”) Official Plan (“COPA”) to facilitate the development of the County’s Environmental Resource Recovery Centre (“ERRC”) on lands located at 2976 Horseshoe Valley Road West in the Township of Springwater (“Township”). The County’s ERRC will consist of an Organics Processing Facility and a Materials Management Facility which together aim to improve the County’s ability to manage its long-term solid waste needs as identified in the County’s 2010 Solid Waste Management Strategy. The draft COPA proposes to modify Schedule 5.6.1 (County Waste Disposal Sites) to identify this waste management facility and add a new policy to Section 4.9 (Waste Management) that sets out the permitted uses associated with the ERRC on the subject lands. It is noted that the County has also applied for amendments to the Township Official Plan and Zoning By-law to permit the proposed ERRC.

As noted in the County’s letter dated February 13, 2018, this latest circulation of the draft COPA and supporting documents builds on the dialogue and information exchanged between County staff, the County’s consultants and staff from MMA and other partner ministries, to address the provincial One-Window comments provided to the County on April 7, 2017. Through the provincial One Window planning service, staff at the Ministry of the Environment and Climate Change (“MOECC”), Ministry of Tourism, Culture and Sport (“MTCS”), Ministry of Natural Resources and Forestry (“MNRF”), Ministry of Transportation (“MTO”) and Ministry of Agriculture, Food and Rural Affairs

("OMAFRA") were circulated the draft COPA along with the supporting documents – many of which were updated to address those issues previously identified – for their review and comment. We offer the following comments on this draft COPA with respect to the *Planning Act*, the 2017 Growth Plan for the Greater Golden Horseshoe and the 2014 Provincial Policy Statement ("PPS") as well as consideration of other provincial legislation, regulations and policies that also apply to the proposed ERRC.

### **Air Quality**

In response to MOECC's recommendation, the County's consultant undertook an air quality impact assessment ("AQIA") report to identify the impacts of the proposed ERRC facility on surrounding existing and future sensitive land uses to ensure the draft COPA is consistent with PPS policy 1.2.6.1. MOECC staff reviewed the AQIA report as part of this circulation and have identified technical issues (see Appendix 'A') that will need to be addressed through the Environmental Compliance Approval ("ECA") application process. MOECC staff have no objection with this draft COPA to permit the proposed ERRC uses/facility on the subject lands recognizing that the necessary land use permissions are a prerequisite, but not determinative to the issuance, of an ECA.

### **Archaeology and Cultural Heritage**

It is noted the archaeological reports associated with this proposal have been completed and entered into the Ontario Public Register of Archaeological Reports as compliant, which MTCS confirmed to the County's consultant by letter dated July 12, 2017. The Stage 3 archaeological assessment report (PIF# P128-0150-2016) recommends that the Gribbin archaeological site (BdGw-49), which is located on the subject property, be protected by a 10-metre buffer. Provided this recommendation can be addressed at future stages of the development of the property (e.g., as a condition of site plan approval), MTCS staff have no further concerns with the draft COPA from an archaeological perspective.

The recent circulation of the draft COPA included a revised report entitled 'Cultural Heritage Resource Assessment: Built Heritage Resources and Cultural Heritage Landscapes' ("CHRA") prepared by ASI dated November 2017. Given that the CHRA has identified a built heritage resource on the subject property with the potential to be significant as defined in the PPS, any *Planning Act* matter affecting this property requires an evaluation of this resource under the Ontario Regulation ("O. Reg.") 9/06 criteria. If this evaluation confirms that this resource is of cultural heritage value or interest, the County will need to take on measures to ensure that it is conserved pursuant to the definition in the PPS and the in-effect County Official Plan. As such, MTCS staff recommend the following addition to the proposed COPA:

"The County shall evaluate the stone foundations at 2976 Horseshoe Valley Road West according to the criteria in Ontario Regulation 9/06. If this resource is found to be of cultural heritage value or interest according to these criteria, the County shall work with the Township of Springwater to ensure that this resource is *conserved*."

MTCS staff further note, as the three cultural heritage landscapes identified in the CHRA

are on an adjacent property that is not a protected heritage property under the PPS definition, PPS 2.6.3 does not apply to this draft COPA.

### **Natural Heritage**

MNRF staff reviewed the information in the amended scoped Environmental Impact Study (“EIS”) prepared by GHD dated February 1, 2018 that was provided with this draft COPA, along with additional information subsequently provided to MNRF including the amended Snag and Acoustic Bat Survey Results based on a snag density survey completed on March 29, 2018. Based on this review, it is the opinion of MNRF staff that the development of the proposed ERRC is not likely to adversely impact endangered bat species and their habitat provided that no tree removal occurs between April 1 and September 1.

Accordingly, this timing restriction for vegetation removal must be incorporated into the Environmental Management Plan and Wildlife Management Plan along with all mitigation and monitoring programs described in the amended scoped EIS. Should any of the project details change or if it is not possible to comply with the above timing condition, MNRF staff should be notified immediately to obtain advice on whether the changes would require authorization under the *Endangered Species Act, 2007*. MNRF staff maintain that afforestation at a 2:1 ratio is appropriate to mitigate negative impacts to significant woodland and significant wildlife habitat features and recommend that this afforestation ratio also be incorporated into both the Environmental Management Plan and the Wildlife Management Plan once prepared. MNRF staff also recommend the amended EIS be updated to clarify that these corresponding mitigation measures will occur (see Appendix ‘A’ for technical comments).

### **Wildland Fires**

To assist municipalities and other stakeholders in the implementation of PPS policies related to wildland fires, the province has generalized wildland fire hazards mapping that provides a coarse scale assessment of areas with the greatest potential for risks associated with high to extreme wildland fire. However, this mapping alone does not represent a complete assessment of risk. Determination of mitigation measures can be done with confidence only on a site-specific basis. MNRF's [Wildland Fire Risk Assessment and Mitigation Reference Manual](#) advises that if an assessment determines that hazardous forest types for wildland fire are not present on or in the vicinity of proposed development (i.e., generally within 100 metres), PPS policy 3.1.8 does not apply.

Accordingly, MNRF staff reviewed the amended Facilities Characteristic Report (“FCR”) prepared by GHD dated February 1, 2018 which recognizes that one of the highest priorities for a facility of this nature is property protection (fire risk). The FCR describes the ERRC site as being part of the Freele County Forest tract, an approximately 65 year old mixed species plantation managed by County foresters. Site assessment carried out by the County’s consultation in the preparation of the EIS characterizes the vegetation communities surrounding the proposed ERRC structures as naturalized coniferous plantation, sugar-maple naturalized deciduous plantation and hemlock-hardwood mixed

forest. This characterization, which confirms MNRF's mapping, indicates that the forested areas surrounding the ERRC structures are low to moderate risk from a wildland fire and, therefore, PPS policy 3.1.8 does not apply.

The FCR provides further details on the proposed approach to fire protection for the ERRC in Section 4.4, including the preparation of a Fire Prevention Plan ("FPP") that will be developed in consideration of a site hazard assessment and relevant documents such as the Ontario's FireSmart Manual. It is also noted that the conceptual layout in Figure 3.1 of the FCR shows 15 to 25 metres of driveway/parking lot between the ERRC facility and the chain link fence.

MNRF staff recommend that the County include a wildland fire assessment as part of the site hazard assessment for the FPP, and that a vegetation plan or strategy be incorporated into this plan to create an appropriate separation between buildings and the surrounding forested lands. The County is encouraged to incorporate vegetation/fuel management mitigation techniques beyond the ERRC footprint within the surrounding forested lands as part of the FPP. MNRF's Wildland Fire Risk Assessment and Mitigation Reference Manual provides recommended standards on vegetation management and development considerations that are based on the principles of the FireSmart Manual.

## **Conclusion**

Any COPA adopted by the County will be forwarded to MMA, as the approval authority, to be reviewed before any provincial decision is made ensuring all applicable provincial land use planning interests are addressed. As recommended in the above comments there are outstanding matters to be addressed by the County, as appropriate, through: additional text to the COPA; updates to technical studies; subsequent approval processes (e.g., site plan, ECA application); and the development of mitigation and management plans (e.g., Fire Prevention Plan, Environmental Management Plan and Wildlife Management Plan). Provided the recommended mitigation measures contained herein are addressed appropriately, there will be no remaining provincial land use concerns. In addition to these provincial comments, the County as the proponent and responsible planning authority, should also consider input received from the public and other stakeholders and address any identified issues as appropriate.

Thank you again for the opportunity to comment on the draft COPA. Should you have any questions, do not hesitate to contact me at (416) 585-6154 or by email at [aldo.ingraldi@ontario.ca](mailto:aldo.ingraldi@ontario.ca). Alternatively, you may contact Ross Lashbrook, Manager, Community Planning and Development (East) at (416) 585-6063 or by email at [ross.lashbrook@ontario.ca](mailto:ross.lashbrook@ontario.ca).

Sincerely,



Aldo Ingraldi, MCIP, RPP  
Senior Planner



## Appendix 'A' – Technical Comments

### Air Quality

MOECC staff have confirmed receipt of updated dispersion modelling files with respect to the proposed ERRC facility from the County's consultant on April 5, 2018 and acknowledge that these files will be reviewed at the ECA stage. Prior to receiving these updated files, MOECC staff provided MMA with the following technical comments on the AQIA report to be addressed through the ECA process:

- The AQIA report uses a processing capacity of 30,000 tonnes per year to estimate its air emissions. It is not clear whether this is the initial processing capacity, or the anticipated maximum capacity. It is recommended the latter be used for assessing compliance.
- When using source test results from other facilities, it is expected that the source test reports are made available. These reports were not done as part of the AQIA and should be included in the application package for the ECA application.
- There was no mention of particulate matter emissions in the AQIA report. These are common to waste processing facilities and, at a minimum, a Best Management Practice plan for particulate matter should be developed and included in the ECA submission.
- Both composting and anaerobic digestion technologies are known to have fugitive odour emissions. The AQIA report should have included a discussion on potential fugitive odours from the proposed operations and how these would be mitigated to minimize off-site impacts. It has been MOECC's experience that such organics processing facilities do result in odour complaints from process fugitives as well as the trucking of waste into the facility. This potential odour source should be addressed during the facility's design stage and discussed in the ECA submission.
- The development of an odour mitigation and management plan is expected for a waste organics processing facility and should be included in the ECA submission. A proposed plan to demonstrate how negative pressure in the building will be monitored and maintained, and how the proponent will mitigate other fugitive sources such as the trucking of materials to the proposed ERRC site should be developed. In addition, a procedure for recording and responding to complaints, and also a protocol for managing process upsets and equipment malfunction should be part of the plan.
- The AQIA report should have discussed the facility impact at the proposed future sensitive receptor (receptor no. 7) and this should be addressed through the ECA application.
- The facility's design and operation will ultimately lead to the success of odour mitigation methods. The MOECC notes that studies have been carried out for the

composting process, which highlights the need to maintain the proper level of moisture and oxygen content, and the correct temperature during the curing stage, as well as a sufficiently long curing time to produce mature compost. Inspections at existing facilities have shown that the finished product is often not mature, leading to odours. Complete enclosure of all the process activities, from receipt of raw material to the finished product, together with odour treatment of the building air prior to exhaust to the environment is expected for waste organics processing facilities.

### **Cultural Heritage**

The November 29, 2017 letter from the County's consultant, GHD, to Brent Spagnol, Director of Planning Services and By-law Enforcement for the Township of Springwater notes a meeting was held on May 5, 2017 between County, Township, MMA and GHD staff to discuss the CHRA comments in MMA's April 7, 2017 letter. According to MMA staff records, the May 5, 2017 meeting (via teleconference) involved MOECC staff to exclusively discuss the provincial One-Window comments articulated in the April 7, 2017 letter regarding air quality.

### **Natural Heritage**

MNRF recommends the amended scoped EIS be updated to clarify that tree removal will not occur between April 1 and September 1 as the wording in some sections of the EIS suggest this mitigation is discretionary. For instance, Section 5.3.2 (p.30) of the EIS report states that, "vegetation removal **should** take place in the fall (September - December) to avoid the breeding bird timing window, the bat maternity roost timeframe, and limit the disturbance to terrestrial fauna." While there is flexibility within this timing window, it is important to note that for endangered bat species, tree removal must not occur between April 1 and September 1.

Section 10.2 of the Amended Planning Justification Report prepared by GHD dated February 2018 refers to the EIS and certain implementation measures that are recommended therein to mitigate negative impacts to significant woodland and significant wildlife habitat features. The amended Planning Justification Report describes the replacement of plantation forest area with afforestation of at least an equivalent area of native natural forest. The EIS, however, describes a preferred afforestation at a 2:1 ratio (e.g. 11 ha). For example, in Section 6 (p.31), the EIS states that "a commitment to afforestation at a 2:1 ratio (e.g. 11 ha) to expand and/or enhance the contiguous woodland feature within the vicinity of the Study Area will, along with the detailed site design and operation considerations, serve to mitigate the loss." This statement suggests that afforestation at a 2:1 ratio is not definite. MNRF recommends the amended EIS be clarified that afforestation will occur at a 2:1 ratio as a significant measure that will mitigate for the loss of interior forest function in the study area.



15 May 2018

Mr. David Parks, MCIP RPP  
Director of Planning, Development Department  
County of Simcoe  
1110 Highway 26  
Midhurst, ON L9X 1N6

Dear Mr. Parks;

**RE: Proposed Environmental Resource Recovery Centre (ERRC)  
County Official Plan Amendment, File Number SC-OPA-1601  
2976 Horseshoe Valley Road West (County Road 22)  
Township of Springwater  
NVCA ID 30106**

The NVCA has reviewed this application and offer the following comments:

We understand that the application proposes to permit the development of an Environmental Resource Recovery Centre (ERRC) comprised of an Organics Processing Facility (OPF), Materials Management Facility (MMF), and a potential Materials Recovery Facility (MRF) along with accessory uses.

### **GENERAL COMMENTS**

The subject property, known as the Freele County Forest Tract, is located at 2976 Horseshoe Valley Road West, approximately 3 kilometres west of Provincial Highway 400. The property is owned by the County of Simcoe and is open to the public for seasonal recreational activities. A portion of the 84 ha site has been reforested with a plantation of pine and spruce species. It is expected that the proposed ERRC will occupy a footprint of 4.5 ha which is currently proposed to be situated on a plateau-area approximately north-west of the site midpoint. Access to the site will be established from Horseshoe Valley Road and will generally follow the alignment of an existing trail.

We advise the property is partially within the regulatory jurisdiction of the NVCA where a permit is required under Ontario Regulation 172/06 prior to development. The lands are partially regulated due to mapped drainage features and wetlands associated with erosion and flooding concerns. The initial review of site mapping identified a watercourse present which has since been ground-truthed by NVCA staff to not exist.

### **REVIEW COMMENTS**

The following documentation is subject to our review in support of the application:

- Amended Planning Justification Report prepared by GHD dated February 2018;

- Amended Scoped Environmental Impact Study prepared by GHD dated February 1, 2018;
- Amended Facilities Characteristic Report prepared by GHD dated February 1, 2018;
- Updated Hydrogeological Assessment prepared by GHD dated February 1, 2018;
- Geotechnical Investigation prepared by GHD dated November 30, 2017;
- Memo regarding amended Snag Density and Acoustic Bat Survey Results.

We note that the following comments are related to this submission and the information provided within this submission.

### **Natural Hazards and Stormwater Management**

1. We note that the supporting documentation provided to date is sufficient to address all hazard and stormwater concerns at the County Official Plan Amendment stage of the planning process.
2. The submission has successfully demonstrated that the proposed development is outside any area of natural hazards (flooding and erosion) and there are not hazardous soils that would impact the development.
3. The stormwater management proposal to use a treatment trail approach to provide water quality and water quantity control for all stormwater prior to discharging onto Horseshoe Valley Road and ultimately Matheson Creek is reasonable for this site.
4. The NVCA requires the matching of post-development phosphorus loads to pre-development levels.

### **Natural Heritage**

5. From a natural heritage perspective, the NVCA is satisfied that the Amended Scoped Environmental Impact Study (EIS) addresses concerns with respect to significant forests, significant wetlands, and significant wildlife habitat through setbacks, avoidance and mitigation.
6. All mitigations listed in the EIS should be implemented including the dedication of 5.5 ha of mitigation afforestation to infilling forest gaps.
7. Staff recommends that the afforestation plan should be presented concurrently to the development of detailed site design to the satisfaction of the County of Simcoe, the Township of Springwater, the MNR and the NVCA.

### **Hydrogeology:**

8. Continued groundwater monitoring is encouraged in the established monitoring wells where GW monitoring is presently occurring to further document seasonal and annual groundwater trends and patterns.
9. As recognized, the nitrate loading calculations will be completed at the design stage.
10. Identification is requested on how the site may impact GW quality and the associated risk management measures to prevent groundwater quality issues.
11. A detailed water balance is required at the detailed design stage.

## **CONCLUSION**

In general, the supporting studies demonstrated that adequate mitigation and compensation measures have been put in place to address any potential impacts. Accordingly, the NVCA has no objection to the approval of the County Official Plan Amendment. We are of the opinion that our remaining interests can be addressed through the next stages of the planning process.

Thank you for the opportunity to provide input on this application and please advise us of any decision. If you have questions or concerns, please do not hesitate to contact the undersigned.

Regards,



Amy Knapp  
Planner II



Chris Hibberd, MCIP, RPP  
Director, Watershed Management Services