



Committee of Adjustment Application to Planning Department

Complete Application

A complete Committee of Adjustment application consists of the following:

1. A properly completed and signed application form (signature must be on original version);
2. Supporting information adequate to illustrate your proposal as listed in **Section H** of this application form (plans are required in paper copy and digital PDF format);
3. Written authorization from all registered owners of the subject lands where the applicant is not the owner as per Section N; and,
4. Cash, debit or cheque payable to Norfolk County in the amount set out in the Norfolk County User Fees By-Law.

Planning application development fees are not required with the submission of your completed and signed development application. Your planning application fee will be determined by the planner when your application has been verified and deemed complete. Prepayments will not be accepted.

5. Completed applications are to be mailed to the attention of **Secretary Treasurer – Committee of Adjustment**: 185 Robinson Street, Suite 200, Simcoe, ON N3Y 5L6 or email your application committee.of.adjustment@norfolkcounty.ca. Make sure submissions are clearly labelled including address, name, and application type. Failure to do so may impact the timing of your application.

The above listed items are required to ensure that your application is given full consideration. An incomplete or improperly prepared application will not be accepted and may result in delays during the processing of the application. This application must be typed or printed in ink and completed in full.

Please review all of the important information summarised below.

Before your Application is Submitted

A pre-consultation meeting is not usually required for Committee of Adjustment applications; however, discussion with Planning Department staff prior to the submission of an application is **strongly encouraged**. The purpose of communicating with a planner **before** you submit your application is: to review your proposal / application, to discuss potential issues; and to determine the required supporting information and materials to be submitted with your application before it can be considered complete by staff. You might find it helpful to retain the services of an independent professional (such as a registered professional planner) to help you with your application. Information about the Official Plan and Zoning By-law can be found on the County website: www.norfolkcounty.ca/planning



After Your Application is Submitted

Once your payment has been received and the application submitted, in order for your application to be deemed complete all of the components noted above are required.

Incomplete applications will be identified and returned to the applicant. The *Planning Act* permits up to 30 days to review and deem an application complete.

Once your application has been deemed complete by the Planning Department, it is then circulated to public agencies and County departments for review and comment. A sign is also provided that is required to be posted on the subject lands that summarizes the application and identifies the committee meeting date. The comments received from members of the community will be included in the planning report and will inform any recommendations in relation to the application.

If the subject lands are located in an area that is regulated by either the Long Point Region Conservation Authority or by the Grand River Conservation Authority an additional fee will be required if review by the applicable agency is deemed necessary. A separate cheque payable to the Long Point Region Conservation Authority or the Grand River Conservation Authority is required in accordance with their fee schedule at the same time your application is submitted.

Additional studies required as part of the complete application shall be at the sole expense of the applicant. In some instances peer reviews may be necessary to review particular studies and that the cost shall be at the expense of the applicant. The company to complete the peer review shall be selected by the County.

If the application is withdrawn prior to the circulation to commenting agencies, the entire original fee will be refunded. If withdrawn after the circulation to agencies, half the original fee will be refunded. No refund is available after the public meeting and/or approval of application.

Notification Sign Requirements

Planning Department staff may post a notification sign on your property in advance of the public meeting on your behalf. Please keep this sign posted until you have received a notice in the mail indicating that the Secretary Treasurer received no appeals.

However, it is the applicant's responsibility to ensure that the sign is correctly posted within the statutory timeframes, according to the *Planning Act*. Failure to post a sign in advance of the public meeting in accordance with statutory requirements will impact the timing of your application at the Committee of Adjustment meeting. Applicants are responsible for removal of the sign following the appeal period. The signs are recyclable and can be placed in your blue box.

Contact Us

For additional information or assistance in completing this application, please contact a planner at 519-426-5870 ext. 1842 or Committee.of.Adjustment@NorfolkCounty.ca



For Office Use Only:

File Number	BNPL2023371	Application Fee	4952.00
Related File Number	BNPL2023372-373	Conservation Authority Fee	N/A
Pre-consultation Meeting	March 2 2022	Well & Septic Info Provided	N/A
Application Submitted	Nov.22.2023	Planner	Hanne Yager
Complete Application		Public Notice Sign	

Check the type of planning application(s) you are submitting.

Consent/Severance/Boundary Adjustment
 Surplus Farm Dwelling Severance and Zoning By-law Amendment
 Minor Variance
 Easement/Right-of-Way

Property Assessment Roll Number: 331054202010200**A. Applicant Information****Name of Owner** 499919 Ontario Ltd. c/o Alan DeGroote

It is the responsibility of the owner or applicant to notify the planner of any changes in ownership within 30 days of such a change.

Address 923 NORFOLK CTY RD 21**Town and Postal Code** Courtland, Ontario N0J 1E0**Phone Number** 519-875-3251**Cell Number** 519-842-0640**Email** degrootea2@gmail.com**Name of Applicant** same as owner**Address** **Town and Postal Code** **Phone Number** **Cell Number** **Email**

Name of Agent	<u>Mary Elder of Elder Plans Inc.</u>
Address	<u>32 Miller Cres</u>
Town and Postal Code	<u>Simcoe, ON N3Y 4R1</u>
Phone Number	<u></u>
Cell Number	<u>519-429-4933</u>
Email	<u>Elderplans2018@gmail.com</u>

Please specify to whom all communications should be sent. Unless otherwise directed, all correspondence and notices in respect of this application will be forwarded to the owner and agent noted above.

Owner Agent Applicant

Names and addresses of any holder of any mortgagees, charges or other encumbrances on the subject lands:

B. Location, Legal Description and Property Information

1. Legal Description (include Geographic Township, Concession Number, Lot Number, Block Number and Urban Area or Hamlet):

NWAL CON 14 PT LOT 13

Municipal Civic Address: none assigned but west of 975 NORFOLK CTY RD 21

Present Official Plan Designation(s): Hamlet

Present Zoning: Hamlet Residential

2. Is there a special provision or site specific zone on the subject lands?

Yes No If yes, please specify:

through By-law 29-Z-2023 14.1044 permitted 2,200 sq m lot sizes

3. Present use of the subject lands:

vacant agricultural fields uses for growing crops

4. Please describe **all existing** buildings or structures on the subject lands and whether they are to be retained, demolished or removed. If retaining the buildings or structures, please describe the type of buildings or structures, and illustrate the setback, in metric units, from front, rear and side lot lines, ground floor area, gross floor area, lot coverage, number of storeys, width, length, and height on your attached sketch which must be included with your application:

5. If an addition to an existing building is being proposed, please explain what it will be used for (for example a bedroom, kitchen, or bathroom). If new fixtures are proposed, please describe.

6. Please describe **all proposed** buildings or structures/additions on the subject lands. Describe the type of buildings or structures/additions, and illustrate the setback, in metric units, from front, rear and side lot lines, ground floor area, gross floor area, lot coverage, number of storeys, width, length, and height on your attached sketch which must be included with your application:

one single detached dwelling with garage is proposed meeting all zoning provisions,

exact details to be decided by new lot owner.

7. Are any existing buildings on the subject lands designated under the *Ontario Heritage Act* as being architecturally and/or historically significant? Yes No
If yes, identify and provide details of the building:

8. If known, the length of time the existing uses have continued on the subject lands:
over 20 years

9. Existing use of abutting properties:
residential to west and south, restaurant at the corner, agricultural uses to north and west

10. Are there any easements or restrictive covenants affecting the subject lands?

Yes No If yes, describe the easement or restrictive covenant and its effect:

C. Purpose of Development Application

Note: Please complete all that apply. **Failure to complete this section will result in an incomplete application.**

1. Site Information (Please refer to Zoning By-law to confirm permitted dimensions)

	Existing	Permitted	Provision	Proposed	Deficiency
Lot frontage	109.95 m	30m	5.7.2 b)	36.65 m	
Lot depth	about 625.00 m			min 58.39 m	
Lot width	about 580 m			36.09 m	
Lot area	32.19 ha	2,200 sq m	14.1044	2,200 sq m	
Lot coverage				undetermined	
Front yard		6 m	5.7.2 c)	15 m	
Rear yard		9 m	5.7.2 f)	31.2 m min	
Height		11 m	5.7.2g)	11 m or less	
Left Interior side yard		1.2 m	5.7.2. e)	min 1.2 m	
Right Interior side yard		1.2 m	5.7.2 e)	min 1.2 m	
Exterior side yard (corner lot)		6 m	5.7.2 d)	min 6 m	
Parking Spaces (number)	0	2	4.9 a)	2	
Aisle width					
Stall size					
Loading Spaces					
Other					

2. Please explain why it is not possible to comply with the provision(s) of the Zoning By-law:

3. **Consent/Severance/Boundary Adjustment:** Description of land intended to be severed in metric units:

Frontage: 36.65 m PARCEL A

Depth: 58.47

Width: 36.65 m at frontage, 39.10 m at rear

Lot Area: 0.22 ha

Present Use: vacant land, in cash crop production

Proposed Use: hamlet residential

Proposed final lot size (if boundary adjustment): _____

If a boundary adjustment, identify the assessment roll number and property owner of the lands to which the parcel will be added: _____

Description of land intended to be retained in metric units:

Frontage: 73.30 m

Depth: about 683 m

Width: about 580 m

Lot Area: 31.97 ha

Present Use: cash crop production

Proposed Use: cash crops continue on lands outside hamlet

Buildings on retained land: none

4. **Easement/Right-of-Way:** Description of proposed right-of-way/easement in metric units:

Frontage: _____

Depth: _____

Width: _____

Area: _____

Proposed Use: _____

5. Surplus Farm Dwelling Severances Only: List all properties in Norfolk County, which are owned and farmed by the applicant and involved in the farm operation

Owners Name: _____

Roll Number: _____

Total Acreage: _____

Workable Acreage: _____

Existing Farm Type: (for example: corn, orchard, livestock) _____

Dwelling Present?: Yes No If yes, year dwelling built _____

Date of Land Purchase: _____

Owners Name: _____

Roll Number: _____

Total Acreage: _____

Workable Acreage: _____

Existing Farm Type: (for example: corn, orchard, livestock) _____

Dwelling Present?: Yes No If yes, year dwelling built _____

Date of Land Purchase: _____

Owners Name: _____

Roll Number: _____

Total Acreage: _____

Workable Acreage: _____

Existing Farm Type: (for example: corn, orchard, livestock) _____

Dwelling Present?: Yes No If yes, year dwelling built _____

Date of Land Purchase: _____

Owners Name: _____

Roll Number: _____

Total Acreage: _____

Workable Acreage: _____

Existing Farm Type: (for example: corn, orchard, livestock) _____

Dwelling Present?: Yes No If yes, year dwelling built _____

Date of Land Purchase: _____

Owners Name: _____

Roll Number: _____

Total Acreage: _____

Workable Acreage: _____

Existing Farm Type: (for example: corn, orchard, livestock) _____

Dwelling Present?: Yes No If yes, year dwelling built _____

Date of Land Purchase: _____

Note: If additional space is needed please attach a separate sheet.

D. All Applications: Previous Use of the Property

1. Has there been an industrial or commercial use on the subject lands or adjacent lands? Yes No Unknown

If yes, specify the uses (for example: gas station, or petroleum storage):

2. Is there reason to believe the subject lands may have been contaminated by former uses on the site or adjacent sites? Yes No Unknown

3. Provide the information you used to determine the answers to the above questions:
owner's knowledge

4. If you answered yes to any of the above questions in Section D, a previous use inventory showing all known former uses of the subject lands, or if appropriate, the adjacent lands, is needed. Is the previous use inventory attached? Yes No

E. All Applications: Provincial Policy

1. Is the requested amendment consistent with the provincial policy statements issued under subsection 3(1) of the *Planning Act, R.S.O. 1990, c. P. 13*? Yes No

If no, please explain:

2. It is owner's responsibility to be aware of and comply with all relevant federal or provincial legislation, municipal by-laws or other agency approvals, including the Endangered Species Act, 2007. Have the subject lands been screened to ensure that development or site alteration will not have any impact on the habitat for endangered or threatened species further to the provincial policy statement subsection 2.1.7? Yes No

If no, please explain:

3. Have the subject lands been screened to ensure that development or site alteration will not have any impact on source water protection? Yes No

If no, please explain:

Note: If in an area of source water Wellhead Protection Area (WHPA) A, B or C please attach relevant information and approved mitigation measures from the Risk Manager Official.

4. All Applications: Are any of the following uses or features on the subject lands or within 500 metres of the subject lands, unless otherwise specified? Please check boxes, if applicable.

Livestock facility or stockyard (submit MDS Calculation with application)

On the subject lands or within 500 meters – distance _____

Wooded area

On the subject lands or within 500 meters – distance _____

Municipal Landfill

On the subject lands or within 500 meters – distance _____

Sewage treatment plant or waste stabilization plant

On the subject lands or within 500 meters – distance _____

Provincially significant wetland (class 1, 2 or 3) or other environmental feature

On the subject lands or within 500 meters – distance _____

Floodplain

On the subject lands or within 500 meters – distance _____

Rehabilitated mine site

On the subject lands or within 500 meters – distance _____

Non-operating mine site within one kilometre

On the subject lands or within 500 meters – distance _____

Active mine site within one kilometre

On the subject lands or within 500 meters – distance _____

Industrial or commercial use (specify the use(s))

On the subject lands or within 500 meters – distance _____

Active railway line

On the subject lands or within 500 meters – distance _____

Seasonal wetness of lands

On the subject lands or within 500 meters – distance _____

Erosion

On the subject lands or within 500 meters – distance _____

Abandoned gas wells

On the subject lands or within 500 meters – distance _____

F. All Applications: Servicing and Access

1. Indicate what services are available or proposed:

Water Supply

Municipal piped water Communal wells
 Individual wells Other (describe below)

Sewage Treatment

Municipal sewers Communal system
 Septic tank and tile bed in good working order Other (describe below)

Storm Drainage

Storm sewers Open ditches
 Other (describe below)
infiltration is proposed

2. Existing or proposed access to subject lands:

Municipal road Provincial highway
 Unopened road Other (describe below)

Name of road/street:

Norfolk County Road 21

G. All Applications: Other Information

1. Does the application involve a local business? Yes No

If yes, how many people are employed on the subject lands?

2. Is there any other information that you think may be useful in the review of this application? If so, explain below or attach on a separate page.

H. Supporting Material to be submitted by Applicant

In order for your application to be considered complete, folded hard copies (number of paper copies as directed by the planner) and an **electronic version (PDF) of the site plan drawings, additional plans, studies and reports** will be required, including but not limited to the following details:

1. Concept/Layout Plan
2. All measurements in metric
3. Existing and proposed easements and right of ways
4. Parking space totals – required and proposed
5. All dimensions of the subject lands
6. Dimensions and setbacks of all buildings and structures
7. Location and setbacks of septic system and well from all existing and proposed lot lines, and all existing and proposed structures
8. Names of adjacent streets
9. Natural features, watercourses and trees

In addition, the following additional plans, studies and reports, including but not limited to, **may** also be required as part of the complete application submission:

- On-Site Sewage Disposal System Evaluation Form (to verify location and condition)
- Environmental Impact Study
- Geotechnical Study / Hydrogeological Review
- Minimum Distance Separation Schedule
- Record of Site Condition

Your development approval might also be dependent on Ministry of Environment Conservation and Parks, Ministry of Transportation or other relevant federal or provincial legislation, municipal by-laws or other agency approvals.

All final plans must include the owner's signature as well as the engineer's signature and seal.

I. Transfers, Easements and Postponement of Interest

The owner acknowledges and agrees that if required it is their solicitor's responsibility on behalf of the owner for the registration of all transfer(s) of land to the County, and/or transfer(s) of easement in favour of the County and/or utilities. Also, the owner further acknowledges and agrees that it is their solicitor's responsibility on behalf of the owner for the registration of postponements of any charges in favour of the County.

Permission to Enter Subject Lands

Permission is hereby granted to Norfolk County officers, employees or agents, to enter the premises subject to this application for the purposes of making inspections associated with this application, during normal and reasonable working hours.

Freedom of Information

For the purposes of the *Municipal Freedom of Information and Protection of Privacy Act*, I authorize and consent to the use by or the disclosure to any person or public body any information that is collected under the authority of the *Planning Act, R.S.O. 1990, c. P. 13* for the purposes of processing this application.

Alan De Groot

Owner/Applicant/Agent Signature

Nov. 15, 2023

Date

J. Owner's Authorization

If the applicant/agent is not the registered owner of the lands that is the subject of this application, the owner must complete the authorization set out below.

I/We Alan De Groot am/are the registered owner(s) of the lands that is the subject of this application.

I/We authorize Mary Elder, Elder Plans Inc. to make this application on my/our behalf and to provide any of my/our personal information necessary for the processing of this application. Moreover, this shall be your good and sufficient authorization for so doing.

Alan De Groot

Owner

Nov. 15, 2023

Date

Owner

Date

***Note: If property is owned by an Ontario Ltd. Corporation, Articles of Incorporation are required to be attached to the application.**

K. Declaration

I, Mary Elder of Norfolk County

solemnly declare that:

all of the above statements and the statements contained in all of the exhibits transmitted herewith are true and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of *The Canada Evidence Act*.

Declared before me at:

Owner/Applicant/Agent Signature

In _____

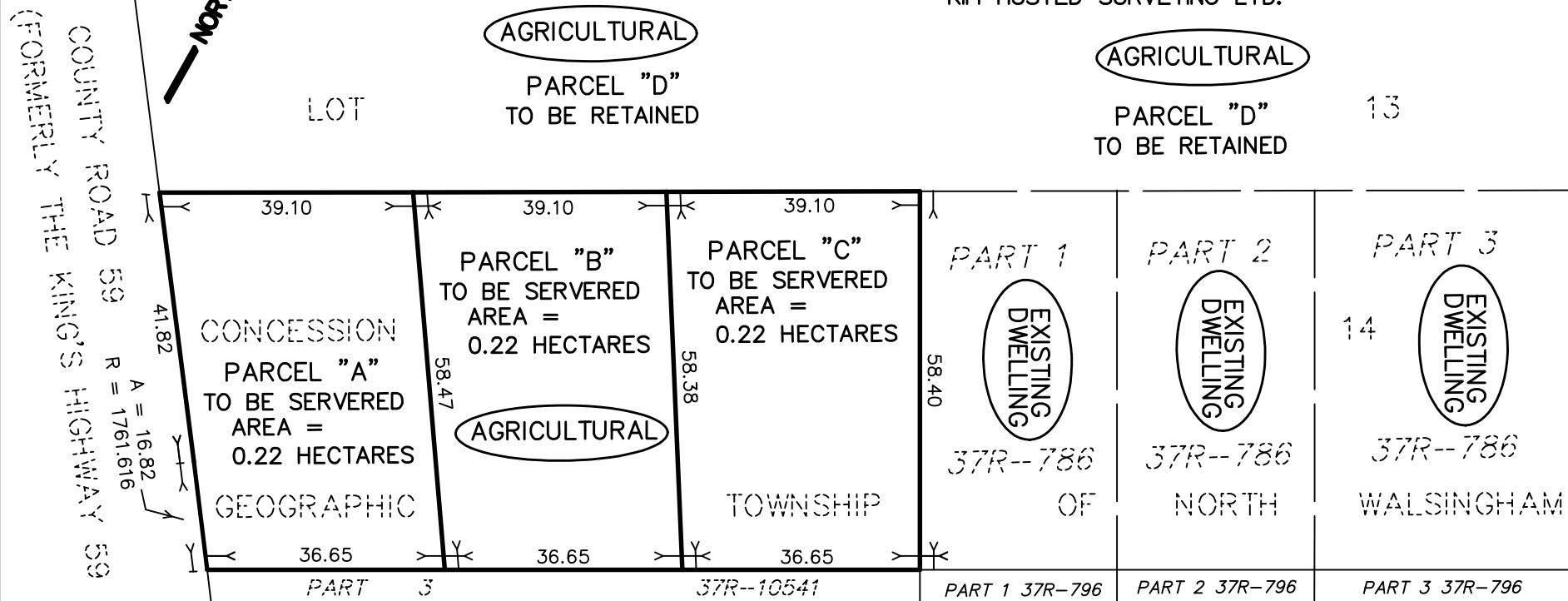
This _____ day of _____

A.D., 20_____

A Commissioner, etc.

**SKETCH FOR PROPOSED SEVERENCE
PART OF LOT 13
CONCESSION 14
GEOGRAPHIC TOWNSHIP OF NORTH WALSINGHAM
IN
NORFOLK COUNTY**

NOT TO SCALE
KIM HUSTED SURVEYING LTD.



COUNTY ROAD 21 (VARIOUS WIDTHS AS WIDENED)

ROAD ALLOWANCE BETWEEN CONCESSIONS 13 AND 14 KNOWN AS 13th CONCESSION ROAD

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CAUTION

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KIM HUSTED SURVEYING LTD.

ONTARIO LAND SURVEYOR

30 HARVEY STREET, TILLSONBURG ONTARIO, N4G 3J8
PHONE:519-842-3638 FAX: 519-842-3639

PROJECT: 21-17618

F.R. Berry & Associates

TRANSPORTATION PLANNING CONSULTANTS

660 Inverness Avenue
London, Ontario N6H 5R4
Tel: (519) 474 2527 Toll Free: 1 888 665 9192 Email: fyberry@rogers.com

May 2, 2022

Our Ref. **2217**

Elder Plans Inc.
32 Miller Crescent
Simcoe ON
N3Y 4R1

Attn. Ms. M. Elder

Dear Ms. Elder:

**RE: PROPOSED RESIDENTIAL DEVELOPMENT
NORFOLK COUNTY ROAD 21 AT COUNTY ROAD 59
TRAFFIC IMPACT ASSESSMENT**

At your request, I have assessed the potential traffic impact of four single family residential lots proposed in the hamlet of Andy's Corners at the intersection of Norfolk County Roads 59 and 21. The location of the site is shown in **Figure 1**. The four lots will have frontage on CR 21, one located to the west of CR 59 and three located to the east. A concept plan is shown in **Figure 2**. I understand that, while the concept plan shows two lots east of CR 59, a previously completed hydrogeological study supports the development of three lots.

My assessment follows the County's Traffic Impact Study Guidelines. I note that in the Pre-Submission Consultation Meeting Minutes (March 2, 2022), County staff have recognized that the proposed development will generate a small amount of traffic and thus would only require a Traffic Impact Brief, identifying the proposed development, the study area and existing conditions and an assessment of available sight distances.

The hamlet of Andy's Corners includes approximately 45 single family homes fronting on either CR 21 or CR 59. There are two commercial establishments, a drive-in restaurant on the south-east corner of the intersection, and a sportswear outlet on the west side of CR 59 south of the intersection. The DeGroote Family farm is located in the north-west quadrant of the intersection with accesses from both CR 59 and CR 21.

County Road 59 is the primary access to Long Point Provincial Park and carries a significant volume of traffic in the summer months. County Road 21 provides access to



small communities such as Wycombe and Glen Meyer and a number of farm properties. Both roads are constructed as two lane paved rural highways. In the hamlet of Andy's Corners, the speed limit on County Road 59 is reduced to 60km/h. The intersection of CR 59 and CR 21 is controlled by stop signs on the CR 21 approaches. All approaches are single shared lanes with the exception of CR 59 northbound which has a short right turn lane along the frontage of the restaurant.

Based on data contained in the Institute of Transportation Engineers (ITE) Trip Generation Manual, four single family lots will generate about three vehicle trips in the morning peak hour and about four vehicle trips in the afternoon peak hour. These volumes would have no significant impact on the operation of either CR 21 or CR 59.

County Road 21 is on a level grade and has a tangent alignment. Sight distances to the east and west are unrestricted. For a design speed of 100km/h, consistent with the posted speed limit of 80km/h on CR 21, Minimum Stopping Sight Distance (MSSD) as recommended in the MTO Geometric Design Manual, is 185 metres. This distance is available in both directions at each of the proposed accesses to the development.

Driveways to the proposed two lots immediately to the east and west of the intersection with County Road 59 should be located as far from the intersection as possible to maximise safety and reduce the risk of conflict with through vehicles stopped at the intersection.

In summary, vehicle trips generated by the proposed four lot development will have no significant impact on traffic operation and safety on either County Road 21 or County Road 59. Sight distance is not an issue. Driveways to the two lots immediately east and west of the intersection should be located as far from the intersection as possible.

Very truly yours
F. R. Berry & Associates

Frank R. Berry, P.Eng
Principal





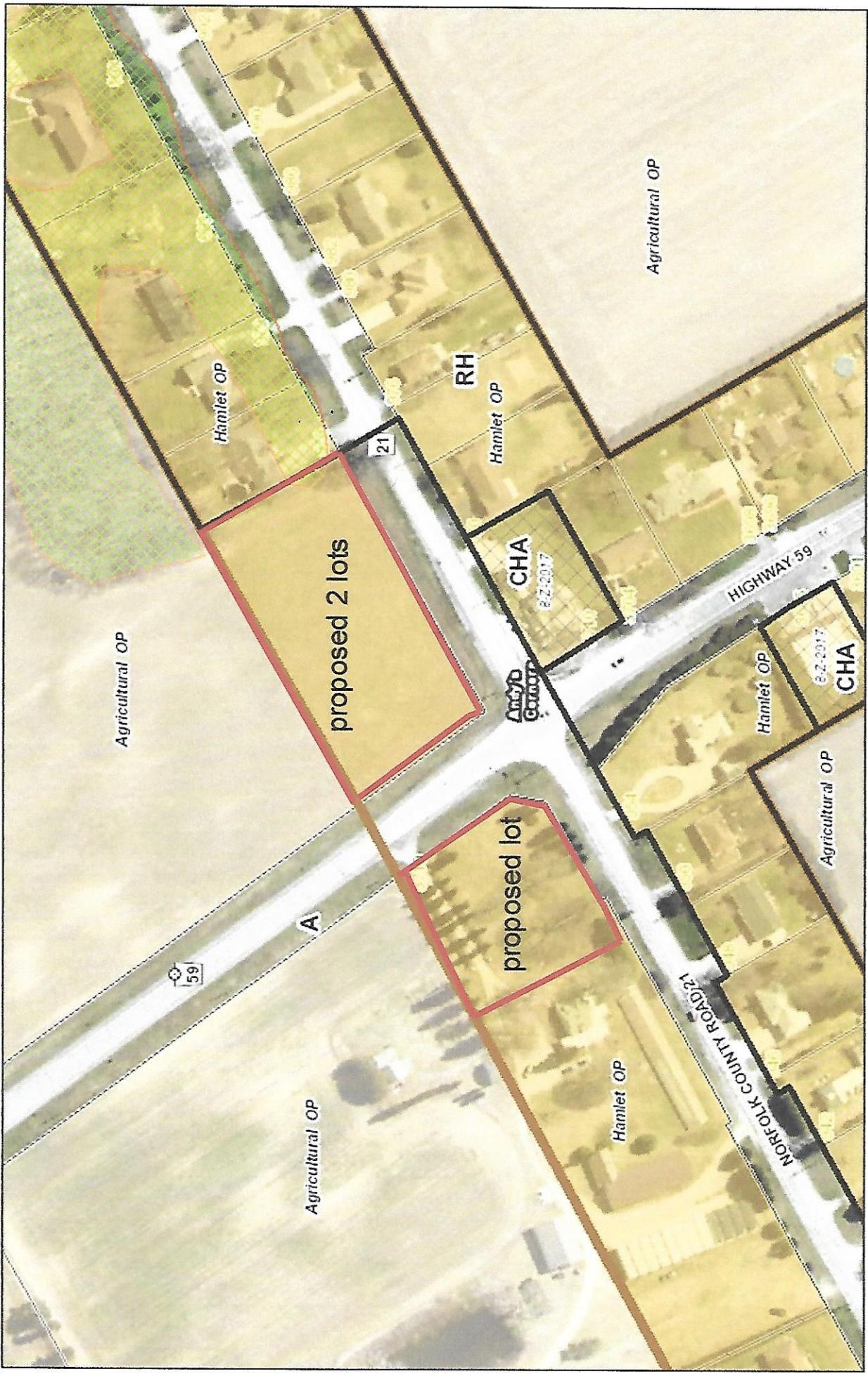
Figure 1

Area Plan

800 m

Google Earth

MAP NORFOLK - Community Web Map



0 0.015 0.03 0.06 mi

0 0.00275 0.055 0.06 km

- Zone
- Zone with Holding Provision
- Special Provisions

Queen's Printer for Ontario
Norfolk GIS

Figure 2

Concept Plan

January 27, 2022
Revised April 27, 2022

Mr. Alan DeGroote
923 Norfolk County Road 21
Courtland, ON
N0J 1E0

Dear Mr. DeGroote:

Re: Hydrogeological Assessment - Proposed Residential Lots
Norfolk County Road 21 at Highway 59, Andy's Corners

It is proposed to create three residential lots by severance from the existing 32.2ha parcel of land located at the northeast corner of the intersection of Norfolk County Road 21 at Highway 59. The proposed lots are planned to be situated within the ±0.67ha area between the existing residential lot at 975 Norfolk County Road 21 and Highway 59. A ±0.30ha lot is also being considered for the area northwest of the corner of the intersection of Norfolk County Road 21 at Highway 59, at the southeast corner of the parcel at 3719 Highway 59. The attached map shows the location of the site(s).

It is proposed to service the lots with individual water wells and individual subsurface sewage disposal systems.

To support the development proposal, a hydrogeological study was conducted involving the following:

- Exploratory test pits were completed within the proposed lot areas to collect representative soil samples for percolation rate analyses and to identify shallow groundwater conditions.
- Sewage system development density assessment under current Ministry of the Environment, Conservation and Parks (MECP) Procedure D-5-4 "Technical Guideline For Individual On-Site Sewage Systems : Water Quality Impact Risk Assessment", commonly known as the "nitrate guideline".
- A review of water well records to provide comment regarding aquifer conditions and groundwater supply potential.
- Collection of a sample of potable water from the existing water source at 3719 Highway 59 to confirm drinking water quality.

At your request, the above hydrogeologic investigative requirements were addressed through a test pit and groundwater sampling program conducted November 24, 2021 and a subsequent background hydrogeologic analysis. This report provides a summary of background hydrogeologic information, groundwater availability, upper aquifer water quality, the results of the soils suitability study and comment regarding sewage impact potential.

Wilson Associates

Consulting Hydrogeologists

SITE SETTING, GEOLOGY AND HYDROGEOLOGY

The proposed lots are located within the north-central portion of the Community of Andy's Corners, at the intersection of Norfolk County Road 21 and Highway 59. The subject lands are cleared and are in active agricultural use east of Highway 59, and a residential yard and minor agricultural land west of Highway 59. The lands exhibit an overall flat relief, with a slight surface slope to the west or northwest. Lands to the east, south and southwest are occupied by residential lots. Lands to the north are in agricultural use, and lands to the west are used for farm buildings.

No surface water bodies are located on or in the close vicinity of the site, the closest being Venison Creek, located about 2km to the west, and Deer Creek, located about 2km to the south.

The site is located within the Norfolk Sand Plain physiographic region of southern Ontario. According to the Ontario Geological Survey Map 2473 "Quaternary Geology of the Tillsonburg Area", the upper overburden in the vicinity of the site consists of glaciolacustrine shallow water deposits of sand. Local well records indicate that the upper sands range from 6.7m to more than 12.8m deep, although the majority of local wells are completed in these sands to a depth of less than about 10m. Although all local reported wells are shallow, the overburden is regionally indicated to be approximately 80m deep, with the lower overburden typically consisting of fine-grained deposits.

The bedrock beneath the site consists of limestone and dolostone of the Dundee Formation.

The majority of local groundwater supplies are obtained from the granular deposits of the upper 6m to 12m of the overburden. The lower overburden typically provides little to no potential for groundwater supply due to its fine-grained character, and the bedrock is less often utilized due to the expense of deep drilling and the potential of obtaining aesthetically poor-quality water.

Shallow groundwater on the site will follow local drainage patterns, with a possibly very slight gradient to the west or south.

WELL POTENTIAL ANALYSIS

To establish well yield and basic water quality probabilities, up-to-date MECP records for water wells located within approximately 250 metres of the proposed lots were reviewed. Records for well abandonments, geotechnical or environmental monitoring wells are not included in the summary. The MECP water well record database contains the records for only 11 water wells within the review area, however many wells in the area will be shallow sandpoint wells, which often are unreported to the MECP. The water well records used in the preparation of the review are attached. The following summarizes the reported well record information within the review area.

Number of wells:	11
Drilled Construction:	4
Dug/Bored Construction:	0
Sandpoint Construction:	7
Unknown Construction:	0
Completed in Overburden:	11 (100%)
Completed in Bedrock:	0

The following summarizes the reported well performance data.

	Maximum	Minimum	Average
Well Depth (m)	12.8	7.3	9.6
Test Rate (L/min)	114	9	47.3
Test Period (Hours)	2.6	1	1.6

Reported Water Quality:

Fresh:	11 or 100% (no objectionable tastes or odours)
Sulphurous:	none
Mineralized/Saline:	none
Quality Not Reported:	none
Dry Well:	none

The average reported well within about 250 metres of the proposed lots is of sandpoint construction, completed in the upper overburden sand aquifer to a depth of 9.6 metres and yields 47 litres of fresh-quality water per minute over an average period of 1.6 hours. This average yield significantly exceeds the maximum water demand of a normal four bedroom home specified by the MECP (i.e. 18L/min without inline storage). Overall groundwater conditions are favourable for domestic water requirements.

It should be noted that the above summary and analysis is based solely on information contained in the MECP water well record database as reported by drilling contractors and is not subject to quality control, however the overall analytical summary is favourable.

WATER QUALITY

To identify probable potable groundwater quality at the proposed lots, a sample of untreated groundwater was collected from the water supply well at the existing on-site house at 3719 Highway 59 on November 24, 2021, and submitted to Bureau Veritas Laboratories for bacteriological and general chemistry analysis. The well supplying the house is indicated to be a 10.4m deep sandpoint well (MECP water well record No. 44-1128, copy attached). The sample was collected in laboratory-supplied bottles, stored in an ice-packed cooler and submitted to the laboratory under chain of custody. The laboratory analytical report is attached.

The laboratory reported that the water from the on-site well contained no detectable Total Coliform, E.Coli bacteria or background bacteria.

The water from the on-site well is slightly alkaline, with a pH value of 8.02. The water from the well is moderately hard, with a hardness value of 200 mg/L as CaCO_3 , which is typical of groundwater in the region.

The sodium content of the water from the on-site well at 39mg/L is well below the aesthetic Ontario Drinking Water Quality Standard of 200mg/L. However, the sodium content of the water slightly exceeds the level at which the Ontario Drinking Water Quality Standards recommend that the local Medical Officer of Health should be notified (20mg/L) so that physicians for persons on sodium-restricted diets can be advised. The sodium content of the water from the on-site well is not uncommon for groundwater in the region.

All other chemical parameters were at acceptable levels under the Ontario Drinking Water Quality Standards.

SOILS INVESTIGATION

Test Pits:

Four exploratory test pits were excavated using a backhoe within the proposed lots (one pit west of Highway 59, three east of Highway 59) on November 24, 2021. The test pits were completed to depth of 1.52m to 1.65m, the soil profile was logged in each pit and representative soil samples were collected from each identified soil horizon for subsequent classification, analysis and storage. The attached diagram shows the approximate test pit locations. The following table provides a summary of the analytical results for representative soil samples.

Table 1 : Summary of Soil Analytical Data

Test Pit/ Sample	Depth (m)	Grain-Size Distribution				"k" (cm/sec)	T-Time (min/cm)
		Clay %	Silt %	Sand %	Gravel %		
TP1 S1	0.7	0	19	81	0	2×10^{-3}	8
TP2 S2	1.4	7	22	71	0	8×10^{-5}	20
TP4 S3	0.5	0	20	80	0	2×10^{-3}	8

Note: The above coefficient of permeability ("k" values) and T-time (percolation rates) are estimates based on field observation, laboratory grain-size analysis, experience with similar soils and guidelines of the Ontario Building Code.

In summary, the soil profile at the test pits consisted of fine sand with some silt (Unified Soil Classification Type "SP"), which exhibits a percolation rate in the range of 8 minutes/cm, overlying a fine sand with some silt and clay (Unified Soil Classification Type "SM"), which exhibits a percolation rate in the range of 20 minutes/cm.

The grain-size analysis curves are attached. The following provides a summary of the test pit logs:

TEST PIT 1**Depth (m)**

0 - 0.63

0.63 - 1.40

1.40 - 1.65

Material

FILL - disturbed mixture of topsoil and sand

red-brown, loose, dry fine SAND with some silt (estimated T-time 8 min/cm)

grey-brown, compact, dry to wet SAND with some silt and traces of clay (estimated T-time 20 min/cm)

TEST PIT 2**Depth (m)**

0 - 0.25

0.25 - 1.22

1.22 - 1.52

Material

dark brown TOPSOIL

red-brown, loose, dry fine SAND with some silt (estimated T-time 8 min/cm)

grey-brown, compact, dry to wet SAND with some silt and traces of clay (estimated T-time 20 min/cm)

TEST PIT 3**Depth (m)**

0 - 0.25

0.25 - 1.22

1.22 - 1.65

Material

dark brown TOPSOIL

red-brown, loose, dry fine SAND with some silt (estimated T-time 8 min/cm)

grey-brown, compact, dry to wet SAND with some silt and traces of clay (estimated T-time 20 min/cm)

TEST PIT 4**Depth (m)**

0 - 0.22

0.22 - 1.37

1.37 - 1.65

Material

dark brown TOPSOIL

red-brown, loose, dry fine SAND with some silt (estimated T-time 8 min/cm)

grey-brown, compact, dry to wet SAND with some silt and traces of clay (estimated T-time 20 min/cm)

Shallow Groundwater Conditions:

Emergent groundwater was observed in each test pit, at depths of 1.5m in Test Pit 1, 1.4m in Test Pit 2, 1.2m in Test Pit 3, and 1.3m in Test Pit 4.

Septic System Design:

Under the Ontario Building Code, for a Class 4 sewage disposal system to operate effectively, the leaching bed must be located in soil with a percolation rate (T-time) of between 1 and 50 minutes per centimetre and the base of the absorption trenches must be situated at least 0.9m above the high ground water table, bedrock or a soil with a permeability of greater than 50 minutes per centimetre. To achieve a normal, in-ground installation, the high groundwater table, rock or soil with a permeability of greater than 50 min/cm must be situated at least 1.5 to 1.8 metres below grade.

Due to slightly elevated watertable conditions, for preliminary design purposes, it is recommended that the bases of tile trenches should be set no lower than 0.3m below current grade. For preliminary design purposes, it is recommended that a native soil design percolation rate of 20min/cm is assumed.

A standard fill-based sewage disposal system will require a contact area based on a loading rate of 10L/m²/day (i.e. 160m² for a standard 3-bedroom home with a design sewage flow of 1,600L/day, or 200m² for a standard 4-bedroom home with a design sewage flow of 2,000L/day).

It is understood that the County typically requires that a full sewage system reserve area be utilized in lot design. As the proposed lots will each be in excess of 3,000m² in area, sufficient area is available for a 160m² or 200m² primary sewage disposal area, 160m² or 200m² reserve sewage disposal area. Lot design will need to address setbacks to the house envelope and any on-site and nearby sandpoint wells (30m).

SEWAGE SYSTEM IMPACT ASSESSMENT

Under the current MECP "Technical Guideline For Individual On-Site Sewage Systems : Water Quality Impact Risk Assessment" (Procedure D-5-4, also known as the "nitrate guideline"), each proposed development of five lots or greater utilizing individual on-site sewage systems requires an assessment of groundwater impact potential. The purpose of the assessment is to ensure that the discharge from the individual on-site sewage systems will have a minimal effect on groundwater and the present or potential use of adjacent properties. The assessment involves a three-step process, with the need to advance to the next step dependant on the requirements of the previous step. Where the background nitrate content of shallow groundwater exceeds 10 mg/L, additional development cannot normally be supported.

The water sample collected from the on-site well at had a nitrate content of 3.95mg/L, and this background nitrate content is assumed in the calculation below for the subject lands.

Under Step 1 of the guideline, for developments where the lot size for each private residence within the development is one hectare or larger (with no lots being less than 0.8ha in area), the risk that the limits imposed by the guideline may be exceeded is considered acceptable with no additional hydrogeologic assessment. Step 1 of the guideline is not applicable.

Step 2 of the guideline is applicable where groundwater resources can be confidently demonstrated to be hydraulically isolated from potential sewage pathways. As the primary water supply aquifer is the upper sands, groundwater resources are not hydraulically isolated from potential sewage pathways, and Step 2 of the guideline does not apply.

Under Step 3 of the guideline, a mass-balance calculation is used to determine the minimum size of the proposed lots. Under the current MECP guideline only infiltrating precipitation and the volume of water contained in the sewage may be considered as dilutants for the nitrate contained in septic effluent. To establish the infiltration rate, the percentage of the local water surplus which may infiltrate is calculated using the Rational Method approach. According to the soil evaluation, the soil profile consists of sand (infiltration factor 40%), the overall relief is flat (infiltration factor 30%) and the cover is cleared (infiltration factor 10%), all resulting in an infiltration factor of 80%. According to the 2009 Long Point Region, Kettle Creek and Catfish Creek Integrated Water Budget Final Report, the water surplus for the area is in the range of 415mm per year (Venison Creek sub-watershed, precipitation 980mm/year, evapotranspiration 565mm/year). As such, the annual infiltration rate will be 332mm (80% of 415mm), representing 34% of average annual precipitation in the sub-watershed.

The following mass-balance formula is used to calculate the maximum density of the proposed lots east of Highway 58 (total area of parcel = 0.67ha) under the MECP guideline:

$$Q_T C_T = Q_S C_S + Q_P C_P$$

Where:

Q_T = Sum of Q_S and Q_P

C_T = Nitrate concentration (10mg/L, maximum permitted under the guideline)

Q_S = Volume of sewage (1000 L/day/lot, per MECP guideline)

C_S = Nitrate content of sewage (40 mg/L)

Q_P = Infiltration (332mm/year \times \pm 0.67ha \times 10,000L/mm/ha = 2.22×10^6 L/yr)

C_P = Nitrate content of shallow groundwater (3.95mg/L assumed, see above)

Therefore:

$$(Q_S + 2.22 \times 10^6 \text{L/yr}) \times 10 \text{mg/L} = (Q_S \times 40 \text{mg/L}) + (2.22 \times 10^6 \text{L/yr} \times 3.95 \text{mg/L})$$

$$Q_S = 4.48 \times 10^5 \text{L/year}$$

$$\text{Number of Lots} = 4.48 \times 10^5 \text{L/yr} \div 1,000 \text{ L/day/lot} \div 365 \text{ days/yr} = 1.2 \text{ Lots}$$

Based on the MECP-specified daily volume of sewage for the purposes of the Procedure D-5-4 assessment, and an infiltration rate of 332mm/year, the maximum number of lots on the east parcel (\pm 0.67ha total) under the MECP guideline is 1.2 using conventional sewage disposal systems. As such, three lots are not supportable on the east parcel using conventional sewage disposal systems using the above inputs.

As the potentially proposed \pm 0.30ha west parcel (west of Highway 59) is smaller than the viable lots size east of Highway 59 using conventional sewage disposal systems (i.e. 0.67ha \div 1.2 = 0.56ha lots), it will also not be supportable using a conventional sewage disposal system.

The above assessment approach, conducted in accordance with MECP guidelines, does not consider sewage dilution by groundwater flow-through nor does it consider denitrification processes in the subsurface. As such, the assessment will over-estimate the actual degree of groundwater impact of the proposed lots, this considered a safety factor.

For the three eastern lots (and the potential western lot) to be viable under the guideline, the lots will be required to utilize an individual subsurface sewage disposal system equipped with tertiary treatment capable of nitrate reduction. The use of such systems is not contemplated for this purpose (or any other purpose) in the MECP guidelines due to the age of the guidelines (ca. 1996), however nitrate reducing treatment systems are now commonly used in the Province under CAN/BNQ 3680-600 Certified Treatment Technologies for total nitrogen reduction. Such systems (N-I rated) are commonly capable of a nitrate reduction in the order of 50%, or 20mg/L. The above mass-balance formula is revised to determine the sewage impact of using nitrate-reduction technology on each of the $\geq 0.22\text{ha}$ lots, which addresses the potential sewage impact of the three eastern lots and the one possible western lot.

$$Q_T C_T = Q_S C_S + Q_P C_P$$

Where:

Q_T = Sum of Q_S and Q_P

C_T = Nitrate Impact

Q_S = Volume of sewage ($1,000 \text{ L/day/lot} = 3.65 \times 10^5 \text{ L/year/lot}$)

C_S = Nitrate content of sewage (20mg/L using a treatment system)

Q_P = Infiltration ($332 \text{ mm/year} \times 0.22 \text{ ha lot} \times 10,000 \text{ L/mm/ha} = 7.304 \times 10^5 \text{ L/yr}$)

C_P = Nitrate content of groundwater (3.95mg/L)

Therefore:

$$(3.65 \times 10^5 \text{ L/year/lot} + 7.304 \times 10^5 \text{ L/yr}) \times C_T = (3.65 \times 10^5 \text{ L/year/lot} \times 20\text{mg/L}) + (7.304 \times 10^5 \text{ L/yr} \times 3.95\text{mg/L})$$

$$C_T = 9.3\text{mg/L}$$

At 9.3mg/L nitrate, the sewage impact will be less than the maximum acceptable level of 10mg/L nitrate, and therefore the three eastern and one possible western lot are viable using sewage systems equipped with nitrate reduction technology.

Based on the above, the sewage systems on the proposed lots will be required to utilize nitrate reduction technology capable of an average nitrate reduction of at least 50% (i.e. 20mg/L nitrate). Commercially-available sewage treatment systems (meeting CAN/BNQ 3680-600 Certified Treatment Technologies for total nitrogen reduction) are typically demonstrated to be capable of a nitrate reduction of 50% (or 20mg/L nitrate), and are capable of higher rates of reduction with additional treatment measures. Municipal support and long-term maintenance agreements for individual sewage treatment units are required.

CONCLUSIONS AND RECOMMENDATIONS

1. The average reported well within about 250 metres of the proposed lots is of sandpoint construction, completed in the upper overburden sand aquifer to a depth of 9.6 metres and yields 47 litres of fresh-quality water per minute over an average period of 1.6 hours. This average yield significantly exceeds the maximum water demand of a normal four bedroom home specified by the MECP (i.e. 18L/min without inline storage). Overall groundwater conditions are favourable for domestic water requirements.
2. The quality of water from the on-site well was acceptable. The sodium content of the water from the on-site well at 39mg/L is well below the aesthetic Ontario Drinking Water Quality Standard of 200mg/L. However, the sodium content of the water slightly exceeds the level at which the Ontario Drinking Water Quality Standards recommend that the local Medical Officer of Health should be notified (20mg/L) so that physicians for persons on sodium-restricted diets can be advised. The sodium content of the water from the on-site well is not uncommon for groundwater in the region.
3. Due to slightly elevated watertable conditions, for preliminary design purposes, it is recommended that the bases of tile trenches should be set no lower than 0.3m below current grade. For preliminary design purposes, it is recommended that a native soil design percolation rate of 20min/cm is assumed.
4. A standard fill-based sewage disposal system will require a contact area based on a loading rate of 10L/m²/day (i.e. 160m² for a standard 3-bedroom home with a design sewage flow of 1,600L/day, or 200m² for a standard 4-bedroom home with a design sewage flow of 2,000L/day). Sufficient area is available for a 160m² or 200m² primary sewage disposal area, 160m² or 200m² reserve sewage disposal area. Lot design will need to address setbacks to the house envelope and any on-site and nearby sandpoint wells (30m).
5. Under MECP Procedure D-5-4, for the three eastern and one possible western lots to be viable, the lots will each be required to utilize an individual subsurface sewage disposal system equipped with tertiary treatment capable of nitrate reduction.
6. Based on the findings of the preceding analysis, development of the subject lands as residential lots serviced by private sewage disposal systems is considered viable, subject to the conclusions, limitations and recommendations outlined in this report.

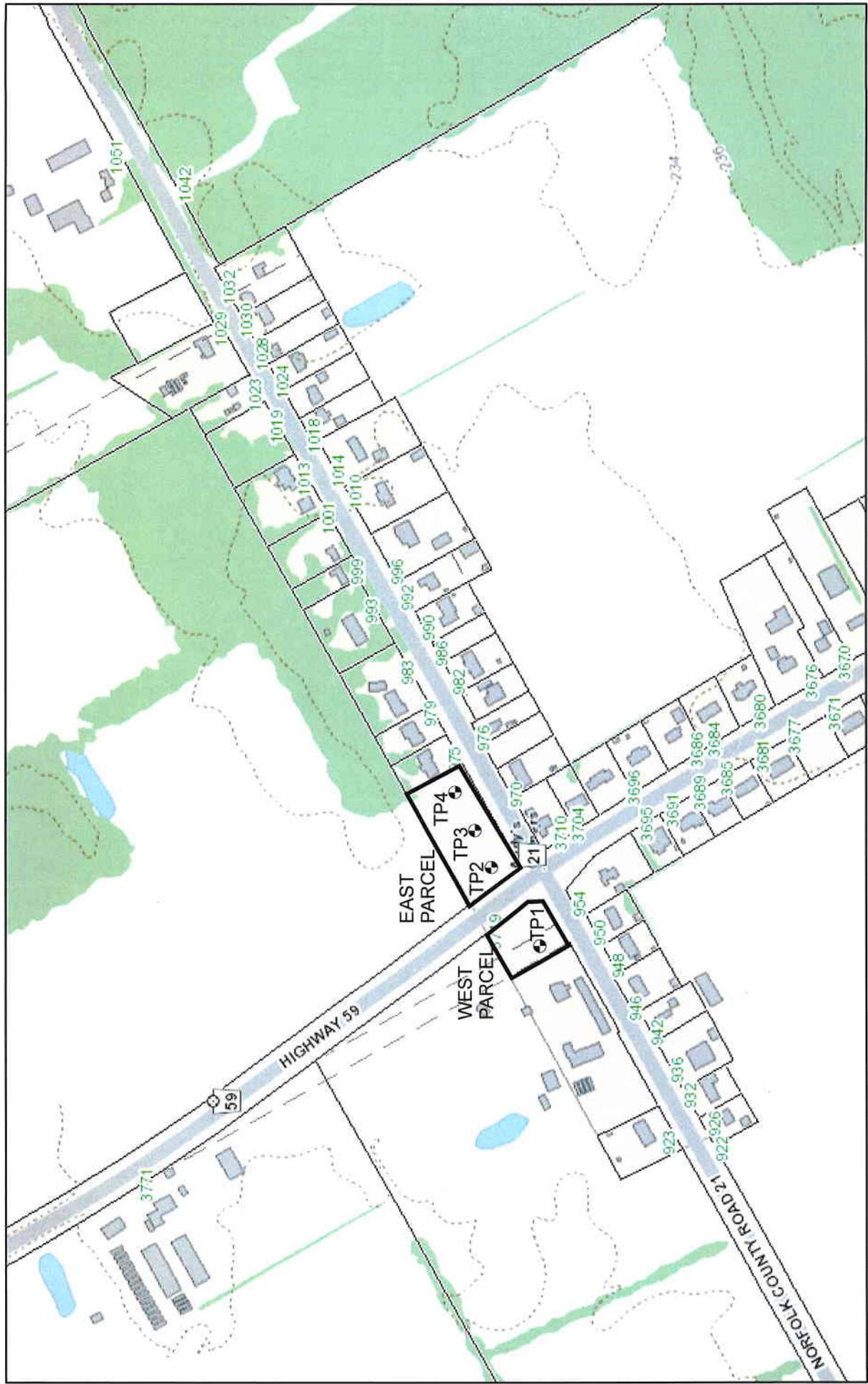
Should there be any questions regarding the above information and discussion, please do not hesitate to contact this office.

IAN D. WILSON ASSOCIATES LIMITED



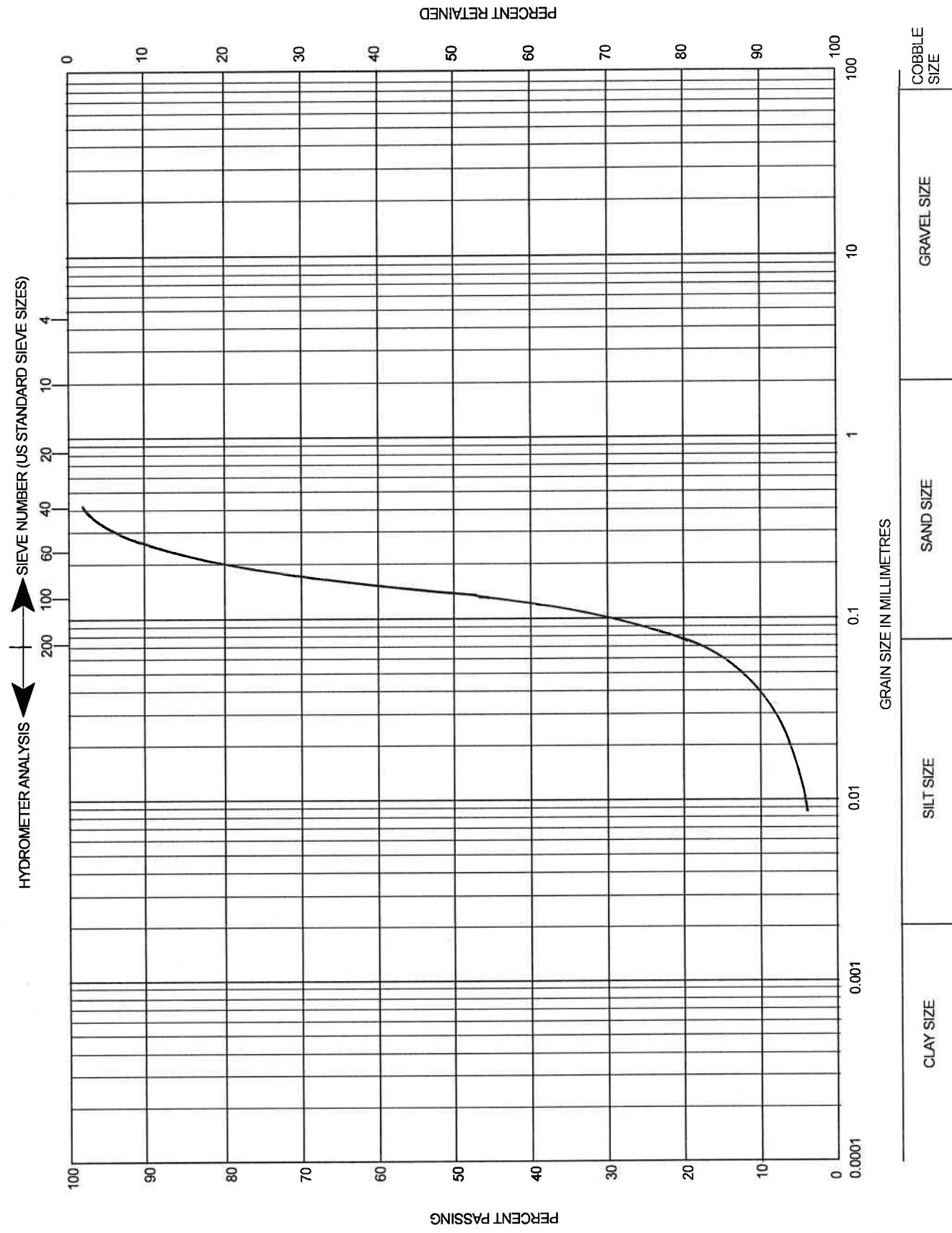
Geoffrey Rether, B.Sc., P.Geo.





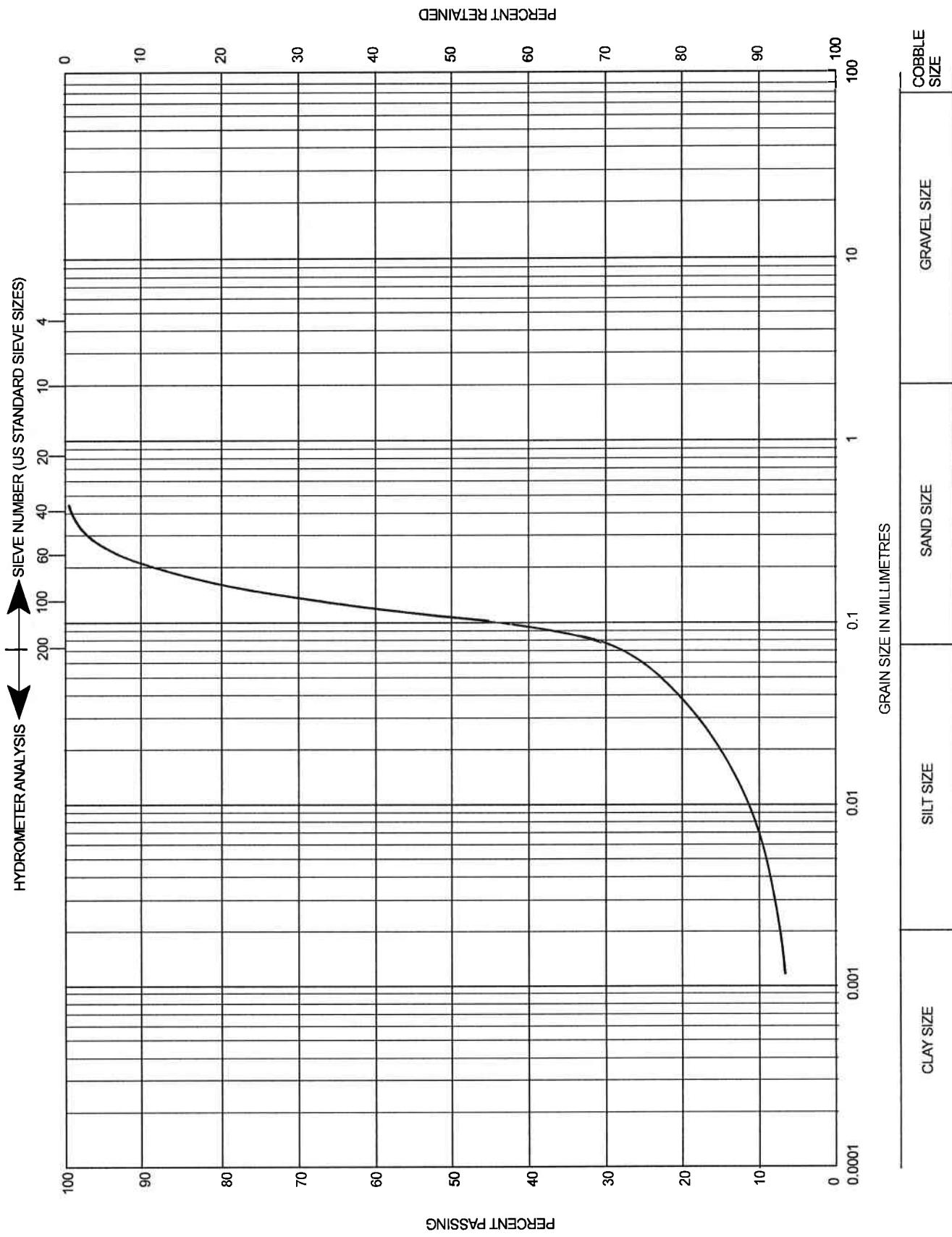
GRAIN SIZE DISTRIBUTION CHART

PROJECT / SAMPLE Alan DeGrote - Test Pit 1, Sample 1



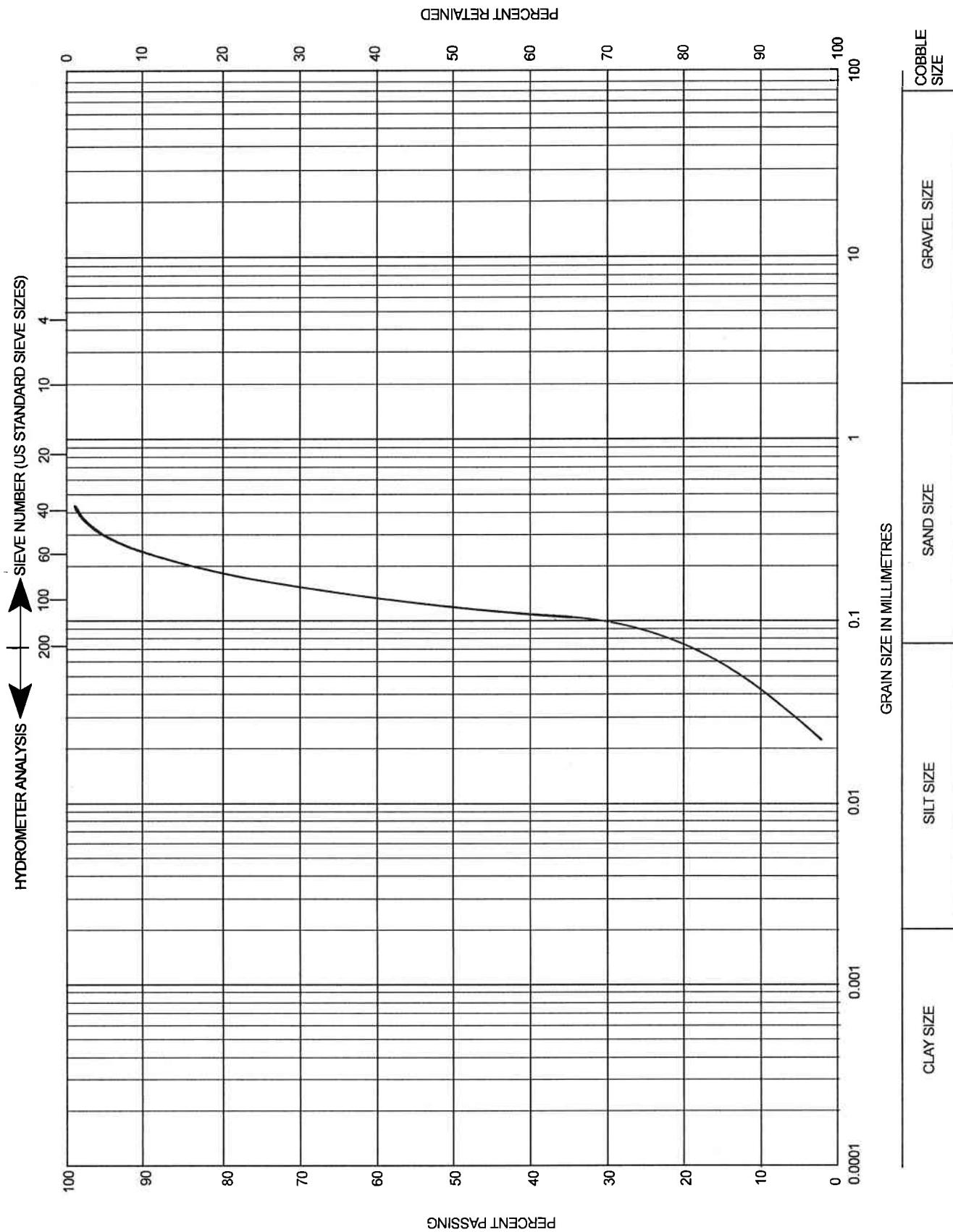
GRAIN SIZE DISTRIBUTION CHART

PROJECT / SAMPLE Alan DeGroote - Test Pit 2, Sample 2



GRAIN SIZE DISTRIBUTION CHART

PROJECT / SAMPLE Alan DeGrote - Test Pit 4, Sample 3



IAN D. WILSON ASSOCIATES LIMITED



Site Location: DEGROOTE

Attention: Geoff Rether

Ian D Wilson Associates Ltd
PO Box 299
76722 Airport Rd
Clinton, ON
CANADA N0M 1L0

Report Date: 2022/01/11
Report #: R6957658
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C125389

Received: 2021/11/24, 17:51

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2021/11/29	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	1	N/A	2022/01/10	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry	1	N/A	2021/11/29	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	1	N/A	2021/11/29	CAM SOP-00414	SM 23 2510 m
Dissolved Organic Carbon (DOC) (1)	1	N/A	2021/11/29	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO ₃)	1	N/A	2022/01/11	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/11/30	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	1	N/A	2022/01/11		
Anion and Cation Sum	1	N/A	2022/01/11		
Total Coliforms, (CFU/100mL)	1	N/A	2022/01/11	CAM SOP-00552	MOE LSB E3371
E.coli, (CFU/100mL)	1	N/A	2021/11/24	CAM SOP-00552	MOE LSB E3371
Total Ammonia-N	1	N/A	2021/11/30	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (2)	1	N/A	2021/11/29	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/12/23	2021/11/29	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	1	N/A	2021/11/29	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2022/01/11		Auto Calc
Sat. pH and Langelier Index (@ 4C)	1	N/A	2022/01/11		Auto Calc
Sulphate by Automated Colourimetry	1	N/A	2021/11/29	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	1	N/A	2022/01/11		Auto Calc

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.



Site Location: DEGROOTE

Attention: Geoff Rether

Ian D Wilson Associates Ltd
PO Box 299
76722 Airport Rd
Clinton, ON
CANADA NOM 1L0

Report Date: 2022/01/11
Report #: R6957658
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Z5389

Received: 2021/11/24, 17:51

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested. This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

Encryption Key

Zunaira Allem
Project Manager Assistant
11 Jan 2022 16:53:19

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Zunaira Allem, Project Manager Assistant

Email: Zunaira.Allem@bureauveritas.com

Phone# (905) 817-5700

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 2
Page 2 of 13

Bureau Veritas Laboratories 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.



Bureau Veritas Job #: C1Z5389
Report Date: 2022/01/11

Ian D Wilson Associates Ltd
Site Location: DEGROOTE
Sampler Initials: GR

RCAP - COMPREHENSIVE (WATER)

Bureau Veritas ID		RJZ888		
Sampling Date		2021/11/24 09:00		
	UNITS	3719	RDL	QC Batch
Calculated Parameters				
Anion Sum	me/L	6.02	N/A	7738799
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	230	1.0	7738795
Calculated TDS	mg/L	320	1.0	7738785
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	2.3	1.0	7738795
Cation Sum	me/L	5.66	N/A	7738799
Hardness (CaCO ₃)	mg/L	200	1.0	7738445
Ion Balance (% Difference)	%	3.09	N/A	7738798
Langelier Index (@ 20C)	N/A	0.729		7738796
Langelier Index (@ 4C)	N/A	0.480		7738797
Saturation pH (@ 20C)	N/A	7.29		7738796
Saturation pH (@ 4C)	N/A	7.54		7738797
Inorganics				
Total Ammonia-N	mg/L	ND	0.050	7752528
Conductivity	umho/cm	560	1.0	7750876
Dissolved Organic Carbon	mg/L	0.73	0.40	7743915
Orthophosphate (P)	mg/L	ND	0.010	7715596
pH	pH	8.02		7750888
Dissolved Sulphate (SO ₄)	mg/L	8.5	1.0	7715581
Alkalinity (Total as CaCO ₃)	mg/L	230	1.0	7750800
Dissolved Chloride (Cl ⁻)	mg/L	33	1.0	7715823
Nitrite (N)	mg/L	ND	0.010	7728354
Nitrate (N)	mg/L	3.95	0.10	7728354
p-Alkalinity	mg/L	ND	1.0	7750800
Nitrate + Nitrite (N)	mg/L	3.95	0.10	7728354
Metals				
Dissolved Aluminum (Al)	ug/L	ND	4.9	7758297
Dissolved Antimony (Sb)	ug/L	ND	0.50	7758297
Dissolved Arsenic (As)	ug/L	ND	1.0	7758297
Dissolved Barium (Ba)	ug/L	17	2.0	7758297
Dissolved Beryllium (Be)	ug/L	ND	0.40	7758297
Dissolved Bismuth (Bi)	ug/L	ND	1.0	7758297
Dissolved Boron (B)	ug/L	30	10	7758297
Dissolved Cadmium (Cd)	ug/L	ND	0.090	7758297
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.				



Bureau Veritas Job #: C1Z5389
Report Date: 2022/01/11

Ian D Wilson Associates Ltd
Site Location: DEGROOTE
Sampler Initials: GR

RCAP - COMPREHENSIVE (WATER)

Bureau Veritas ID		RJZ888		
Sampling Date		2021/11/24 09:00		
	UNITS	3719	RDL	QC Batch
Dissolved Calcium (Ca)	ug/L	59000	200	7758297
Dissolved Chromium (Cr)	ug/L	ND	5.0	7758297
Dissolved Cobalt (Co)	ug/L	ND	0.50	7758297
Dissolved Copper (Cu)	ug/L	1.7	0.90	7758297
Dissolved Iron (Fe)	ug/L	ND	100	7758297
Dissolved Lead (Pb)	ug/L	ND	0.50	7758297
Dissolved Magnesium (Mg)	ug/L	12000	50	7758297
Dissolved Manganese (Mn)	ug/L	ND	2.0	7758297
Dissolved Molybdenum (Mo)	ug/L	ND	0.50	7758297
Dissolved Nickel (Ni)	ug/L	ND	1.0	7758297
Dissolved Phosphorus (P)	ug/L	ND	100	7758297
Dissolved Potassium (K)	ug/L	840	200	7758297
Dissolved Selenium (Se)	ug/L	ND	2.0	7758297
Dissolved Silicon (Si)	ug/L	5300	50	7758297
Dissolved Silver (Ag)	ug/L	ND	0.090	7758297
Dissolved Sodium (Na)	ug/L	39000	100	7758297
Dissolved Strontium (Sr)	ug/L	140	1.0	7758297
Dissolved Thallium (Tl)	ug/L	ND	0.050	7758297
Dissolved Titanium (Ti)	ug/L	ND	5.0	7758297
Dissolved Uranium (U)	ug/L	0.14	0.10	7758297
Dissolved Vanadium (V)	ug/L	ND	0.50	7758297
Dissolved Zinc (Zn)	ug/L	36	5.0	7758297

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.



Bureau Veritas Job #: C1Z5389
Report Date: 2022/01/11

Ian D Wilson Associates Ltd
Site Location: DEGROOTE
Sampler Initials: GR

MICROBIOLOGY (WATER)

Bureau Veritas ID		RJZ888	
Sampling Date		2021/11/24 09:00	
	UNITS	3719	QC Batch
Microbiological			
Background	CFU/100mL	0	7775621
Total Coliforms	CFU/100mL	0	7775621
Escherichia coli	CFU/100mL	0	7775570

QC Batch = Quality Control Batch



Bureau Veritas Job #: C1Z5389
Report Date: 2022/01/11

Ian D Wilson Associates Ltd
Site Location: DEGROOTE
Sampler Initials: GR

TEST SUMMARY

Bureau Veritas ID: RJZ888
Sample ID: 3719
Matrix: Water

Collected: 2021/11/24
Shipped:
Received: 2021/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7750800	N/A	2021/11/29	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	7738795	N/A	2022/01/10	Automated Statchk
Chloride by Automated Colourimetry	KONE	7715823	N/A	2021/11/29	Alina Dobreanu
Conductivity	AT	7750876	N/A	2021/11/29	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7743915	N/A	2021/11/29	Julianne Castiglione
Hardness (calculated as CaCO ₃)		7738445	N/A	2022/01/11	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7758297	N/A	2021/11/30	Nan Raykha
Ion Balance (% Difference)	CALC	7738798	N/A	2022/01/11	Automated Statchk
Anion and Cation Sum	CALC	7738799	N/A	2022/01/11	Automated Statchk
Total Coliforms, (CFU/100mL)	PL	7775621	N/A	2022/01/11	Tharmini Sivalingam
E.coli, (CFU/100mL)	PL	7775570	N/A	2021/11/24	Tharmini Sivalingam
Total Ammonia-N	LACH/NH4	7752528	N/A	2021/11/30	Viorica Rotaru
Nitrate & Nitrite as Nitrogen in Water	LACH	7728354	N/A	2021/11/29	Chandra Nandlal
pH	AT	7750888	2021/11/29	2021/11/29	Surinder Rai
Orthophosphate	KONE	7715596	N/A	2021/11/29	Avneet Kour Sudan
Sat. pH and Langeller Index (@ 20C)	CALC	7738796	N/A	2022/01/11	Automated Statchk
Sat. pH and Langeller Index (@ 4C)	CALC	7738797	N/A	2022/01/11	Automated Statchk
Sulphate by Automated Colourimetry	KONE	7715581	N/A	2021/11/29	Avneet Kour Sudan
Total Dissolved Solids (TDS calc)	CALC	7738785	N/A	2022/01/11	Automated Statchk

Bureau Veritas ID: RJZ888 Dup
Sample ID: 3719
Matrix: Water

Collected: 2021/11/24
Shipped:
Received: 2021/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7743915	N/A	2021/11/29	Julianne Castiglione



BUREAU
VERITAS

Bureau Veritas Job #: C1Z5389

Report Date: 2022/01/11

Ian D Wilson Associates Ltd

Site Location: DEGROOTE

Sampler Initials: GR

GENERAL COMMENTS

Results relate only to the items tested.

BUREAU
VERITAS

Bureau Veritas Job #: C1Z5389

Report Date: 2022/01/11

Ian D Wilson Associates Ltd

Site Location: DEGROOTE

Sampler Initials: GR

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7715581	AKD	Matrix Spike	Dissolved Sulphate (SO4)	2021/11/29	103	%	75 - 125	
7715581	AKD	Spiked Blank	Dissolved Sulphate (SO4)	2021/11/29	108	%	80 - 120	
7715581	AKD	Method Blank	Dissolved Sulphate (SO4)	2021/11/29	ND, RDL=1.0		mg/L	
7715581	AKD	RPD	Dissolved Sulphate (SO4)	2021/11/29	0.76	%	20	
7715596	AKD	Matrix Spike	Orthophosphate (P)	2021/11/29	120	%	75 - 125	
7715596	AKD	Spiked Blank	Orthophosphate (P)	2021/11/29	101	%	80 - 120	
7715596	AKD	Method Blank	Orthophosphate (P)	2021/11/29	ND, RDL=0.010		mg/L	
7715596	AKD	RPD	Orthophosphate (P)	2021/11/29	NC	%	25	
7715823	ADB	Matrix Spike	Dissolved Chloride (Cl-)	2021/11/29	NC	%	80 - 120	
7715823	ADB	Spiked Blank	Dissolved Chloride (Cl-)	2021/11/29	103	%	80 - 120	
7715823	ADB	Method Blank	Dissolved Chloride (Cl-)	2021/11/29	ND, RDL=1.0		mg/L	
7715823	ADB	RPD	Dissolved Chloride (Cl-)	2021/11/29	0.28	%	20	
7728354	C_N	Matrix Spike	Nitrite (N)	2021/11/29	103	%	80 - 120	
7728354	C_N		Nitrate (N)	2021/11/29	103	%	80 - 120	
7728354	C_N	Spiked Blank	Nitrite (N)	2021/11/29	104	%	80 - 120	
7728354	C_N	Method Blank	Nitrite (N)	2021/11/29	ND, RDL=0.010		mg/L	
7728354	C_N		Nitrate (N)	2021/11/29	ND, RDL=0.10		mg/L	
7728354	C_N	RPD	Nitrite (N)	2021/11/29	NC	%	20	
7728354	C_N		Nitrate (N)	2021/11/29	NC	%	20	
7743915	JUC	Matrix Spike [RJZ888-02]	Dissolved Organic Carbon	2021/11/29	97	%	80 - 120	
7743915	JUC	Spiked Blank	Dissolved Organic Carbon	2021/11/29	96	%	80 - 120	
7743915	JUC	Method Blank	Dissolved Organic Carbon	2021/11/29	ND, RDL=0.40		mg/L	
7743915	JUC	RPD [RJZ888-02]	Dissolved Organic Carbon	2021/11/29	6.1	%	20	
7750800	SAU	Spiked Blank	Alkalinity (Total as CaCO3)	2021/11/29	91	%	85 - 115	
7750800	SAU		p-Alkalinity	2021/11/29	91	%	85 - 115	
7750800	SAU	Method Blank	Alkalinity (Total as CaCO3)	2021/11/29	ND, RDL=1.0		mg/L	
7750800	SAU		p-Alkalinity	2021/11/29	ND, RDL=1.0		mg/L	
7750800	SAU	RPD	Alkalinity (Total as CaCO3)	2021/11/29	1.5	%	20	
7750876	SAU	Spiked Blank	Conductivity	2021/11/29	101	%	85 - 115	
7750876	SAU	Method Blank	Conductivity	2021/11/29	ND, RDL=1.0		umho/cm	
7750876	SAU	RPD	Conductivity	2021/11/29	0.32	%	25	
7750888	SAU	Spiked Blank	pH	2021/11/29	102	%	98 - 103	
7750888	SAU	RPD	pH	2021/11/29	1.7	%	N/A	
7752528	VRO	Matrix Spike	Total Ammonia-N	2021/11/30	94	%	75 - 125	
7752528	VRO	Spiked Blank	Total Ammonia-N	2021/11/30	99	%	80 - 120	
7752528	VRO	Method Blank	Total Ammonia-N	2021/11/30	ND, RDL=0.050		mg/L	
7752528	VRO	RPD	Total Ammonia-N	2021/11/30	NC	%	20	
7758297	N_R	Matrix Spike	Dissolved Aluminum (Al)	2021/11/30	96	%	80 - 120	
7758297	N_R		Dissolved Antimony (Sb)	2021/11/30	111	%	80 - 120	
7758297	N_R		Dissolved Arsenic (As)	2021/11/30	99	%	80 - 120	
7758297	N_R		Dissolved Barium (Ba)	2021/11/30	100	%	80 - 120	
7758297	N_R		Dissolved Beryllium (Be)	2021/11/30	92	%	80 - 120	

BUREAU
VERITAS

Bureau Veritas Job #: C1Z5389

Report Date: 2022/01/11

Ian D Wilson Associates Ltd

Site Location: DEGROOTE

Sampler Initials: GR

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7758297	N_R	Spiked Blank	Dissolved Bismuth (Bi)	2021/11/30	85	%	80 - 120	
			Dissolved Boron (B)	2021/11/30	91	%	80 - 120	
			Dissolved Cadmium (Cd)	2021/11/30	99	%	80 - 120	
			Dissolved Calcium (Ca)	2021/11/30	115	%	80 - 120	
			Dissolved Chromium (Cr)	2021/11/30	91	%	80 - 120	
			Dissolved Cobalt (Co)	2021/11/30	92	%	80 - 120	
			Dissolved Copper (Cu)	2021/11/30	92	%	80 - 120	
			Dissolved Iron (Fe)	2021/11/30	96	%	80 - 120	
			Dissolved Lead (Pb)	2021/11/30	87	%	80 - 120	
			Dissolved Magnesium (Mg)	2021/11/30	76 (1)	%	80 - 120	
			Dissolved Manganese (Mn)	2021/11/30	98	%	80 - 120	
			Dissolved Molybdenum (Mo)	2021/11/30	111	%	80 - 120	
			Dissolved Nickel (Ni)	2021/11/30	86	%	80 - 120	
			Dissolved Phosphorus (P)	2021/11/30	105	%	80 - 120	
			Dissolved Potassium (K)	2021/11/30	98	%	80 - 120	
			Dissolved Selenium (Se)	2021/11/30	95	%	80 - 120	
			Dissolved Silicon (Si)	2021/11/30	98	%	80 - 120	
			Dissolved Silver (Ag)	2021/11/30	66 (2)	%	80 - 120	
			Dissolved Sodium (Na)	2021/11/30	59 (1)	%	80 - 120	
			Dissolved Strontium (Sr)	2021/11/30	98	%	80 - 120	
			Dissolved Thallium (Tl)	2021/11/30	90	%	80 - 120	
			Dissolved Titanium (Ti)	2021/11/30	100	%	80 - 120	
			Dissolved Uranium (U)	2021/11/30	92	%	80 - 120	
			Dissolved Vanadium (V)	2021/11/30	99	%	80 - 120	
			Dissolved Zinc (Zn)	2021/11/30	87	%	80 - 120	
			Dissolved Aluminum (Al)	2021/11/30	95	%	80 - 120	
			Dissolved Antimony (Sb)	2021/11/30	105	%	80 - 120	
			Dissolved Arsenic (As)	2021/11/30	98	%	80 - 120	
			Dissolved Barium (Ba)	2021/11/30	99	%	80 - 120	
			Dissolved Beryllium (Be)	2021/11/30	99	%	80 - 120	
			Dissolved Bismuth (Bi)	2021/11/30	95	%	80 - 120	
			Dissolved Boron (B)	2021/11/30	98	%	80 - 120	
			Dissolved Cadmium (Cd)	2021/11/30	98	%	80 - 120	
			Dissolved Calcium (Ca)	2021/11/30	92	%	80 - 120	
			Dissolved Chromium (Cr)	2021/11/30	91	%	80 - 120	
			Dissolved Cobalt (Co)	2021/11/30	93	%	80 - 120	
			Dissolved Copper (Cu)	2021/11/30	95	%	80 - 120	
			Dissolved Iron (Fe)	2021/11/30	97	%	80 - 120	
			Dissolved Lead (Pb)	2021/11/30	95	%	80 - 120	
			Dissolved Magnesium (Mg)	2021/11/30	97	%	80 - 120	
			Dissolved Manganese (Mn)	2021/11/30	98	%	80 - 120	
			Dissolved Molybdenum (Mo)	2021/11/30	100	%	80 - 120	
			Dissolved Nickel (Ni)	2021/11/30	91	%	80 - 120	
			Dissolved Phosphorus (P)	2021/11/30	117	%	80 - 120	
			Dissolved Potassium (K)	2021/11/30	98	%	80 - 120	
			Dissolved Selenium (Se)	2021/11/30	95	%	80 - 120	
			Dissolved Silicon (Si)	2021/11/30	95	%	80 - 120	
			Dissolved Silver (Ag)	2021/11/30	98	%	80 - 120	
			Dissolved Sodium (Na)	2021/11/30	95	%	80 - 120	
			Dissolved Strontium (Sr)	2021/11/30	102	%	80 - 120	
			Dissolved Thallium (Tl)	2021/11/30	98	%	80 - 120	
			Dissolved Titanium (Ti)	2021/11/30	97	%	80 - 120	



Bureau Veritas Job #: C1Z5389
Report Date: 2022/01/11

Ian D Wilson Associates Ltd
Site Location: DEGROOTE
Sampler Initials: GR

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7758297	N_R	Method Blank	Dissolved Uranium (U)	2021/11/30	94	%	80 - 120	
			Dissolved Vanadium (V)	2021/11/30	96	%	80 - 120	
			Dissolved Zinc (Zn)	2021/11/30	95	%	80 - 120	
			Dissolved Aluminum (Al)	2021/11/30	ND, RDL=4.9		ug/L	
			Dissolved Antimony (Sb)	2021/11/30	ND, RDL=0.50		ug/L	
			Dissolved Arsenic (As)	2021/11/30	ND, RDL=1.0		ug/L	
			Dissolved Barium (Ba)	2021/11/30	ND, RDL=2.0		ug/L	
			Dissolved Beryllium (Be)	2021/11/30	ND, RDL=0.40		ug/L	
			Dissolved Bismuth (Bi)	2021/11/30	ND, RDL=1.0		ug/L	
			Dissolved Boron (B)	2021/11/30	ND, RDL=10		ug/L	
			Dissolved Cadmium (Cd)	2021/11/30	ND, RDL=0.090		ug/L	
			Dissolved Calcium (Ca)	2021/11/30	ND, RDL=200		ug/L	
			Dissolved Chromium (Cr)	2021/11/30	ND, RDL=5.0		ug/L	
			Dissolved Cobalt (Co)	2021/11/30	ND, RDL=0.50		ug/L	
			Dissolved Copper (Cu)	2021/11/30	ND, RDL=0.90		ug/L	
			Dissolved Iron (Fe)	2021/11/30	ND, RDL=100		ug/L	
			Dissolved Lead (Pb)	2021/11/30	ND, RDL=0.50		ug/L	
			Dissolved Magnesium (Mg)	2021/11/30	ND, RDL=50		ug/L	
			Dissolved Manganese (Mn)	2021/11/30	ND, RDL=2.0		ug/L	
			Dissolved Molybdenum (Mo)	2021/11/30	ND, RDL=0.50		ug/L	
			Dissolved Nickel (Ni)	2021/11/30	ND, RDL=1.0		ug/L	
			Dissolved Phosphorus (P)	2021/11/30	ND, RDL=100		ug/L	
			Dissolved Potassium (K)	2021/11/30	ND, RDL=200		ug/L	
			Dissolved Selenium (Se)	2021/11/30	ND, RDL=2.0		ug/L	
			Dissolved Silicon (Si)	2021/11/30	ND, RDL=50		ug/L	
			Dissolved Silver (Ag)	2021/11/30	ND, RDL=0.090		ug/L	
			Dissolved Sodium (Na)	2021/11/30	ND, RDL=100		ug/L	
			Dissolved Strontium (Sr)	2021/11/30	ND, RDL=1.0		ug/L	

BUREAU
VERITAS

Bureau Veritas Job #: C1Z5389

Report Date: 2022/01/11

Ian D Wilson Associates Ltd

Site Location: DEGROOTE

Sampler Initials: GR

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Thallium (Tl)	2021/11/30	ND, RDL=0.050		ug/L	
			Dissolved Titanium (Ti)	2021/11/30	ND, RDL=5.0		ug/L	
			Dissolved Uranium (U)	2021/11/30	ND, RDL=0.10		ug/L	
			Dissolved Vanadium (V)	2021/11/30	ND, RDL=0.50		ug/L	
			Dissolved Zinc (Zn)	2021/11/30	ND, RDL=5.0		ug/L	
7758297	N_R	RPD	Dissolved Antimony (Sb)	2021/11/30	NC	%	20	
			Dissolved Arsenic (As)	2021/11/30	2.9	%	20	
			Dissolved Barium (Ba)	2021/11/30	0.38	%	20	
			Dissolved Beryllium (Be)	2021/11/30	NC	%	20	
			Dissolved Boron (B)	2021/11/30	2.9	%	20	
			Dissolved Cadmium (Cd)	2021/11/30	NC	%	20	
			Dissolved Chromium (Cr)	2021/11/30	NC	%	20	
			Dissolved Cobalt (Co)	2021/11/30	NC	%	20	
			Dissolved Copper (Cu)	2021/11/30	9.0	%	20	
			Dissolved Lead (Pb)	2021/11/30	NC	%	20	
			Dissolved Molybdenum (Mo)	2021/11/30	8.9	%	20	
			Dissolved Nickel (Ni)	2021/11/30	14	%	20	
			Dissolved Selenium (Se)	2021/11/30	NC	%	20	
			Dissolved Silver (Ag)	2021/11/30	NC	%	20	
			Dissolved Sodium (Na)	2021/11/30	2.2	%	20	
			Dissolved Thallium (Tl)	2021/11/30	NC	%	20	
			Dissolved Uranium (U)	2021/11/30	3.7	%	20	
			Dissolved Vanadium (V)	2021/11/30	NC	%	20	
			Dissolved Zinc (Zn)	2021/11/30	NC	%	20	

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times$ RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Matrix spike exceeds acceptance limits. Probable matrix interference



BUREAU
VERITAS

Bureau Veritas Job #: C1Z5389

Report Date: 2022/01/11

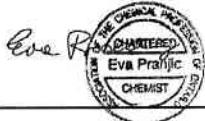
Ian D Wilson Associates Ltd

Site Location: DEGROOTE

Sampler Initials: GR

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Tharmini Sivalingam, Manager, Food Microbiology Laboratory

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

UTM 17z 533215E



64-8

GROUND WATER BRANCH
44 No. 1095

SERIAL NO. 1095

ONTARIO WATER
RESOURCES COMMISSION

Elev. 15 R 0768 P

Basin 123
County or District

Lot 12

403/15E

Township, Village, Town or City

10. WATKINTON

Address

COWRTLAND ONT P.R.H.

WATER WELL RECORD

Casing and Screen Record

Inside diameter of casing 2 inch
 Total length of casing 414' Slat 16 Johnson
 Type of screen H
 Length of screen 34 FT
 Depth to top of screen 2 MCH
 Diameter of finished hole 2 MCH

Pumping Test

Static level 18 FT
 Test-pumping rate 2 GAL G.P.M.
 Pumping level PUMPING DIRECT
 Duration of test pumping 2 HRS
 Water clear or cloudy at end of test CLEAR.
 Recommended pumping rate 2 GAL G.P.M.
 with pump setting of 4 feet below ground surface

Well Log

Overburden and Bedrock Record

TOP FILM
 LOAM
 GRAVEL + CHAY
 FINE WHITE SAND
 CLAY
 LIGHT GREY SAND

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
0'	2"	38 FT	FRESH
2"	8"		
8"	14"		
14"	22"		
22"	25"		
25"	38"		

For what purpose(s) is the water to be used?

DOMESTIC

Is well on upland, in valley, or on hillside? UPLAND

Drilling or Boring Firm CARL STROME

Address LANGTON ONT

Licence Number 1263

Name of Driller or Borer CARL STROME

Address LANGTON ONT

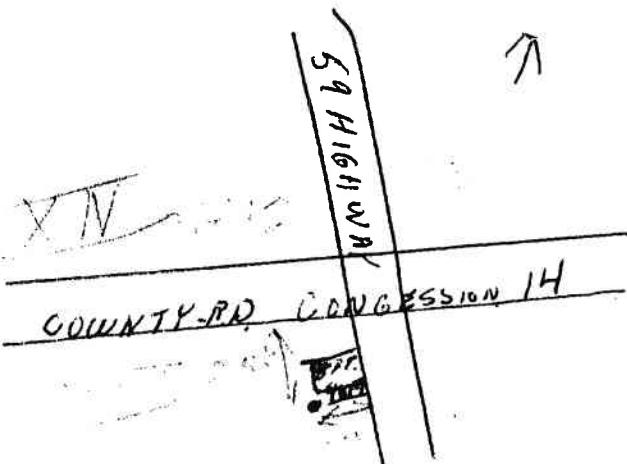
Date Jan 15/64

Carl Strome (J. ST.)

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.





UTM ~~12~~ 5333360 E

GROUND WATER BRANCH

44 No. 1102

ONTARIO WATER
RESOURCES COMMISSION

62-10

The Ontario Water Resources Commission Act

Elev. ~~35~~ 307615

WATER WELL RECORD

40715E

Basin 123 Norfolk

Township, Village, Town or City

N. Walsingham

Con. 13

Lot 13

Date completed

1

Aug.

1962

(day)

month

year

Owner

Address

R.R.1, Delhi

(print in block letters)

Casing and Screen Record

Inside diameter of casing 5"
Total length of casing 36'
Type of screen Johnson # 10
Length of screen 5'
Depth to top of screen 35'
Diameter of finished hole Screen 4"

Pumping Test

Static level 20'
Test-pumping rate 10 G.P.M.
Pumping level 30'
Duration of test pumping 2 hrs.
Water clear or cloudy at end of test Clear
Recommended pumping rate 10 G.P.M.
8" from bottom of Screen with pump setting of feet below ground surface

Well Log

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Overburden and Bedrock Record				
Dry Sand	0	32	32-40	Fresh
Yellow Water Sand	32	40		

GURANTEE OF WELL VOID; If Casing cut off below ground level.

For what purpose(s) is the water to be used?

Domestic

Is well on upland, in valley, or on hillside? Upland

Drilling or Boring Firm Gordon Warren

99 Vienna Rd.,

Address Tillsonburg

Licence Number 561

Name of Driller or Borer H. Cole,

Address H.R. 3, Tillsonburg

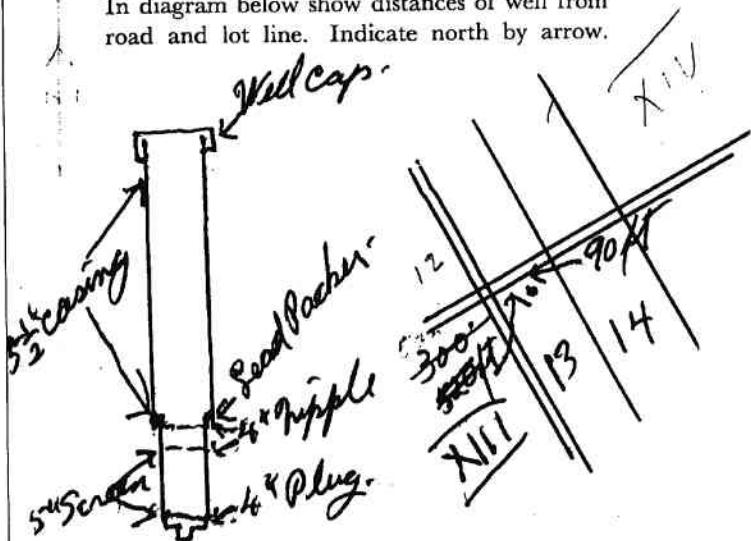
Date

Gordon Warren

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



JTM
W

117125T333601
Con X10
CODED
5TR 217344901
5TR 0761



4402294
3 9

401/10-6 7

The Ontario Water Resources Commission Act

lev.

town

County or District

Con.

23
Norfolk

Lot 13

Township, Village, Town or City

Watringham

Date completed 10 June 1968

ess.

R.R. #1 Delhi

Casing and Screen Record

Inside diameter of casing 1"
 Total length of casing 22'
 Type of screen 1½" sand point
 Length of screen 4
 Depth to top of screen 22'
 Diameter of finished hole 1"

Pumping Test

Static level 10'
 Test-pumping rate 10 G.P.M.
 Pumping level direct
 Duration of test pumping 1 hr
 Water clear or cloudy at end of test clear
 Recommended pumping rate 8 G.P.M.
 with pump setting of direct feet below ground surface

Well Log

Overburden and Bedrock Record

Top soil
brown sand
water sand

From ft.
0
1
10

To ft.
1
10
24

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

10-26' F

For what purpose(s) is the water to be used? D.

Is well on upland, in valley, or on hillside?

Drilling or Boring Firm

L. Hodgson & Sons

Address Glen Magoon

Licence Number 3147

Name of Driller or Borer L. Hodgson

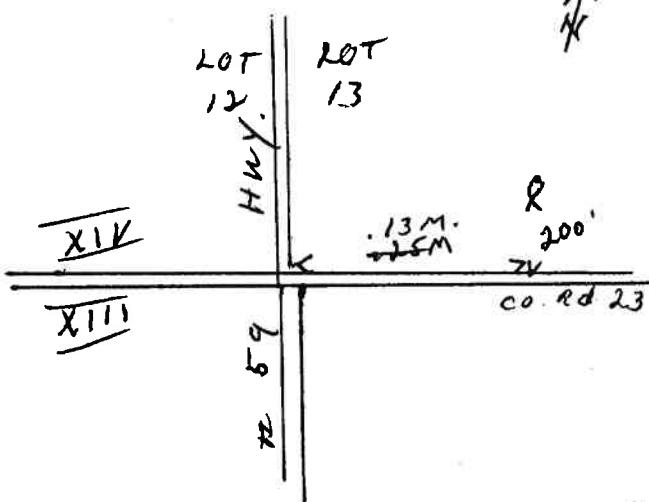
Address same

Date Oct 11/68
Lewis Hodgson

(Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.





Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act
WATER WELL RECORD

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

40-115e

Ontario **1. PRINT ONLY IN SPACES PROVIDED**

2. CHECK CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT _____ TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE _____

COUNTY OR DISTRICT Norfolk TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE North Walsham 13 012
13-53
DATE COMPLETED 02 MO. 01 YE 76

4403594 17 533202 4734258 5 785 3 23 00

(8" Gravel pack)

WRC
P.8

31 00111528112 002650512 0031528
32

WATER FOUND AT - FEET		KIND OF WATER		
10-10	2026	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	5 <input type="checkbox"/> SULPHUR
	zt	2 <input checked="" type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	6 <input type="checkbox"/> MINERAL
20-21		1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	5 <input type="checkbox"/> SULPHUR
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	6 <input type="checkbox"/> MINERAL
20-23		1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	5 <input type="checkbox"/> SULPHUR
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	6 <input type="checkbox"/> MINERAL
25-26		1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	5 <input type="checkbox"/> SULPHUR
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	6 <input type="checkbox"/> MINERAL
30-33		1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	5 <input type="checkbox"/> SULPHUR
		2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL	6 <input type="checkbox"/> MINERAL

CASING & OPEN HOLE RECORD					
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET		
			FROM	TO	
10-11	<input checked="" type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	12		-4	26 0026
17-18	<input type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	18			20-21
24-25	<input type="checkbox"/> STEEL <input checked="" type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	24			27-30

SCREEN	SIZE(S) OF OPENING 1 SLOT NO. 1	21-22	011a30 011a30	05
MATERIAL AND TYPE Johnson Stainless		DEPTH TO TOP OF SCREEN		41-46 FEET
61	PLUGGING & SEALING RECORD			
DEPTH SET AT - FEET		MATERIAL AND TYPE		CEMENT GROUP LEAD PACKER, ETC.
FROM	TO			
10-13	14-17			
18-21	22-25			
26-29	30-33	80		

PUMPING TEST	PUMPING TEST METHOD		10	PUMPING RATE	11-14	DURATION OF PUMPING			
	<input checked="" type="checkbox"/> PUMP	<input type="checkbox"/> BAILER		00 20	GPM	02	15-16 HOURS	40	17-18 MINS
	STATIC LEVEL	WATER LEVEL END OF PUMPING	25	WATER LEVELS DURING					
	18-21	22-26		15 MINUTES	26-30	50 MINUTES		45 MINUTES	40 MINUTES
	016	—		016	26-28	016	28-31	016	32-35
	FEET	FEET		FEET	FEET	FEET		FEET	FEET
	IF FLOWING, GIVE RATE		38-41	PUMP INTAKE SET AT					
				GPM	+1	FEET		WATER AT END OF TEST	
	RECOMMENDED PUMP TYPE			RECOMMENDED PUMP SETTING	43-45	FEET		1	CLEAR
	SHALLOW <input type="checkbox"/> DEEP <input checked="" type="checkbox"/>							<input checked="" type="checkbox"/> CLOUDY	
	10-14			GPM / FT. SPECIFIC CAPACITY					
	00 10			45					

FINAL STATUS OF WELL		<input checked="" type="checkbox"/> WATER SUPPLY	<input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
		<input type="checkbox"/> OBSERVATION WELL	<input type="checkbox"/> ABANDONED, POOR QUALITY
		<input type="checkbox"/> TEST HOLE	<input type="checkbox"/> UNFINISHED
		<input type="checkbox"/> RECHARGE WELL	
55-60		<input checked="" type="checkbox"/> DOMESTIC	<input type="checkbox"/> COMMERCIAL
		<input type="checkbox"/> STOCK	<input type="checkbox"/> MUNICIPAL
		<input type="checkbox"/> IRRIGATION	<input type="checkbox"/> PUBLIC SUPPLY
		<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COOLING OR AIR CONDITIONING
		<input type="checkbox"/> OTHER	<input type="checkbox"/> NOT USED
61		<input checked="" type="checkbox"/> CAKE TOOL	<input type="checkbox"/> BORING
		<input type="checkbox"/> ROTARY (CONVENTIONAL)	<input type="checkbox"/> DIAMOND
		<input type="checkbox"/> ROTARY (PREVENSEE)	<input type="checkbox"/> JETTING
		<input type="checkbox"/> ROTARY (AMP)	<input type="checkbox"/> DRIVING
		<input type="checkbox"/> AIR PERCUSSION	
METHOD OF DRILLING			

CONTRACTOR	NAME OF DRILLER OR BORER	LICENCE NUMBER
	WARREN WATER WELLS	5413
ADDRESS	1227 Tillsonburg	
	GIS Holzhen	LICENCE NUMBER 5413
SIGNATURE OF CONTRACTOR	SUBMISSION DATE	
<i>Tom J. Warren</i>	DAY NO. YR	

LOCATION OF WELL 3334

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND
LOT LINE. INDICATE NORTH BY ARROW.

South Middleton

59

CON III

CON III

10 11 12 13 14

150' from Rd.

XIII

Langton

150' from Rd.

DRILLERS REMARKS:		DATA SOURCE		SS	CONTRACTOR	SS-61	DATE RECEIVED	68-68	RE
		1		5413		800176			
DATE OF INSPECTION				INSPECTOR				P.M. 11	
REMARKS:						CSS-88		P. 10	
								WI	



Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the [Open Data catalogue](https://data.ontario.ca/dataset/well-records) (<https://data.ontario.ca/dataset/well-records>).



[Go Back to Map](#) ()

Well ID

Well ID Number: 7182672

Well Audit Number: Z48999

Well Tag Number: A043827

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	1010 ROAD 21
Township	NORTH WALSINGHAM TOWNSHIP
Lot	013
Concession	CON 13
County/District/Municipality	NORFOLK
City/Town/Village	ANDY'S CORNERS
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 533548.00 Northing: 4734760.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND		DRY	0 m	4.9 m
BRWN	SAND		MSND	4.9 m	6.4 m
BRWN	SAND	CLAY	SOFT	6.4 m	7 m
BRWN	SAND		FSND	7 m	8.5 m
BRWN	SAND	SILT	FSND	8.5 m	9.4 m
GREY	CLAY	SILT	SOFT	9.4 m	9.8 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	4 m	BENTONITE SLURRY	

4 m 6 m NATIVE SAND

Method of Construction & Well Use

Method of Construction Well Use

Cable Tool

Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
13 cm	STEEL	0.6 m	7 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
12.1 cm	STEEL	7 m	8.5 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6540

Results of Well Yield Testing

After test of well yield, water was CLEAR

If pumping discontinued, give reason

Pump intake set at 7 m

Pumping Rate 38 LPM

Duration of Pumping 1 h:45 m

Final water level 5.6 m

If flowing give rate

Recommended pump depth 6 m

Recommended pump rate 38 LPM

Well Production

Disinfected? Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	2.7 m		
1	5.2 m	1	4.3 m
2	5.4 m	2	3.7 m
3	5.5 m	3	3.5 m
4	5.5 m	4	3.4 m
5	5.5 m	5	3.3 m
10	5.6 m	10	2.7 m
15	5.6 m	15	2.7 m

20	5.6 m	20	2.7 m
25	5.6 m	25	2.7 m
30	5.6 m	30	2.7 m
40	5.6 m	40	2.7 m
45		45	
50	5.6 m	50	2.7 m
60	5.6 m	60	2.7 m

Water Details

Water Found at Depth	Kind
4 m	Fresh

Hole Diameter

Depth From	Depth To	Diameter
0 m	6 m	21.9 cm

Audit Number: Z48999

Date Well Completed: July 25, 2006

Date Well Record Received by MOE: May 24, 2012

Related

How to use a Ministry of the Environment map (/page/how-use-ministry-environment-map#wells)

Technical documentation: Metadata record (<https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77>)

Updated: October 18, 2021

Published: March 20, 2014

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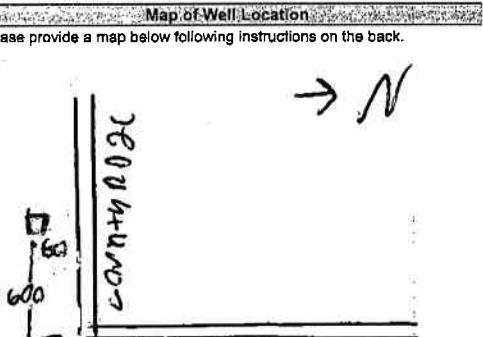
Address of Well Location (Street Number/Name)		Township	Lot	Concession
946 COUNTY ROAD 21			11	13
County/District/Municipality		City/Town/Village		
NORFOLK		ANDYSCORNERS		
UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number
NAD	83	175321115	4734511	Other

Overburden and Bedrock Materials/Abandonment/Sealing Record (see instructions on the back of this form)				
General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From To
BLACK	TOPSOIL			0 1
YELLOW	SAND			1 6
Brown	SAND			6 15
Brown	SAND		FINE	15 25

Annular Space			Results of Well Yield Testing		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)	Draw Down	Recovery	
0' 15'	QUICKGRAN	1.90611444	Time Water Level (min) (m/ft)	Time Water Level (min) (m/ft)	
			Static Level		
			1	1	
			2	2	
			3	3	
			4		
			5	5	
			10	10	
			15	15	
			20	20	
			25	25	
			30	30	
			40	40	
			50	50	
			60	60	

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input checked="" type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		
Construction Record - Casing		Status of Well		
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From To	<input checked="" type="checkbox"/> Water Supply
144	PVC	188	0' 22'	<input type="checkbox"/> Replacement Well
				<input type="checkbox"/> Test Hole
				<input type="checkbox"/> Recharge Well
				<input type="checkbox"/> Dewatering Well
				<input type="checkbox"/> Observation and/or Monitoring Hole
				<input type="checkbox"/> Alteration (Construction)
				<input type="checkbox"/> Abandoned, Insufficient Supply
				<input type="checkbox"/> Abandoned, Poor Water Quality
				<input type="checkbox"/> Abandoned, other, specify
				<input type="checkbox"/> Other, specify
Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To	
1516	STAINLESS	10	22 25'	
Water Details				
Water found at Depth (m/ft)	Kind of Water:	<input checked="" type="checkbox"/> Fresh	<input type="checkbox"/> Untested	Hole Diameter
15'	<input type="checkbox"/> Gas	<input type="checkbox"/> Other, specify		Depth (m/ft)
				From To
				0 25 6"
Water found at Depth (m/ft)	Kind of Water:	<input type="checkbox"/> Fresh	<input type="checkbox"/> Untested	
	<input type="checkbox"/> Gas	<input type="checkbox"/> Other, specify		
Water found at Depth (m/ft)	Kind of Water:	<input type="checkbox"/> Fresh	<input type="checkbox"/> Untested	
	<input type="checkbox"/> Gas	<input type="checkbox"/> Other, specify		

Well Contractor and Well Technician Information				
Business Name of Well Contractor		Well Contractor's Licence No.		
Dave Van Ness Drilling Inc.		76 37		
Business Address (Street Number/Name)		Municipality		
15 DDTYS RD		NORFOLK		
Province	Postal Code	Business E-mail Address		
ON	N1Y 2S5	davenvessdrilling@gmail.com		
Bus. Telephone No. (inc. area code)		Name of Well Technician (Last Name, First Name)		
519 718 3162		davenvess dave		
Well Technician's Licence No.		Signature of Technician and/or Contractor		
3373		Date Submitted		
Ministry's Copy				



Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 2020 04 04	Ministry Use Only Audit No. Z331871
Date Work Completed 2020 04 04	Received MAR 30 2021	



Office of the General Manager
Community Development Division
185 Robinson Street, Suite 200, Simcoe, Ontario, N3Y 5L6
Phone: 519-426-5870 x1348
Email: brandon.sloan@norfolkcounty.ca
www.norfolkcounty.ca

July 19, 2022

Dear Mary Elder, Elder Plans Inc.

Re: Norfolk County Road 21 (Roll #: 54202010200) – Consent to Sever Policy

After a review of the General Consent to Sever Land Policies contained in Official Plan section 9.6.3.2 a), Planning staff acknowledge that the preferred method of land division is through plans of subdivision. There may be merit in the proposal to create four (4) lots (three (3) severed and one (1) retained) at the north-east corner of Highway 59 and County Road 21 located within the Hamlet land use designation. The proposed lots will not require a new public road, the expansion of municipal services nor is it anticipated that a matter in the public interest that cannot be addressed through consent will arise.

If it is demonstrated that the criteria of Official Plan section 9.6.3.2 c) can be achieved through consent, a plan of subdivision will not be required to facilitate the severances. A development agreement may be applied as a condition of consent to address municipal requirements.

Thank you,

A handwritten signature in black ink, appearing to read "Brandon Sloan".

Brandon Sloan, BES, MCIP, RPP
General Manager, Community Development Division

499919



Ministry of
Consumer and **CERTIFICATE**
Commercial
Relations
Ontario

THIS IS TO CERTIFY THAT THESE
ARTICLES ARE EFFECTIVE ON

DECEMBER 16, 1981.

W.L.H.

CONTROLLER OF RECORDS
COMPANIES SERVICES BRANCH

Trans Code	Line No.	Stat	Comp Type	Method Incorp.
A	0	0	A	3
18	20	28	29	30
Share	Notice Req'd	Jurisdiction		
S	N	ONTARIO		
31	32	33		47

ARTICLES OF INCORPORATION

1. THE NAME OF THE CORPORATION IS

499919. ONTARIO LTD.

Form 1
Business
Corporations
Act

2. THE ADDRESS OF THE HEAD OFFICE IS

R.R. #1

(Street & Number or R.R. Number & if Multi-Office Building give Room No.)

Courtland, Ontario

(Name of Municipality or Post Office)

N0J1E0

(Postal Code)

Township of Norfolk

(Name of Municipality, Geographical Township)

in the

Regional Municipality
Haldimand-Norfolk

(County, District, Regional Municipality)

3. THE NUMBER OF DIRECTORS IS Two (2)

4. THE FIRST DIRECTOR(S) IS/ARE

NAME IN FULL, INCLUDING ALL GIVEN NAMES	RESIDENCE ADDRESS, GIVING STREET & NO. OR R.R. NO. & MUNICIPALITY OR POST OFFICE AND POSTAL CODE
Willy Julien Degroote	R.R. #1, Courtland, Ontario N0J 1E0
Mary Magdelene Degroote	R.R. #1, Courtland, Ontario N0J 1E0

DIRECTORS' REGISTER

Corporation: 499919 ONTARIO LTD.

MAP A

CONTEXT MAP

Geographic Township of NORTH WALSINGHAM

BNPL2023271

BNPL2023272

BNPL2023273



Legend

- Subject Lands
- Lands Owned

2020 Air Photo

12/14/2023



60 30 0 60 120 180 240 Meters

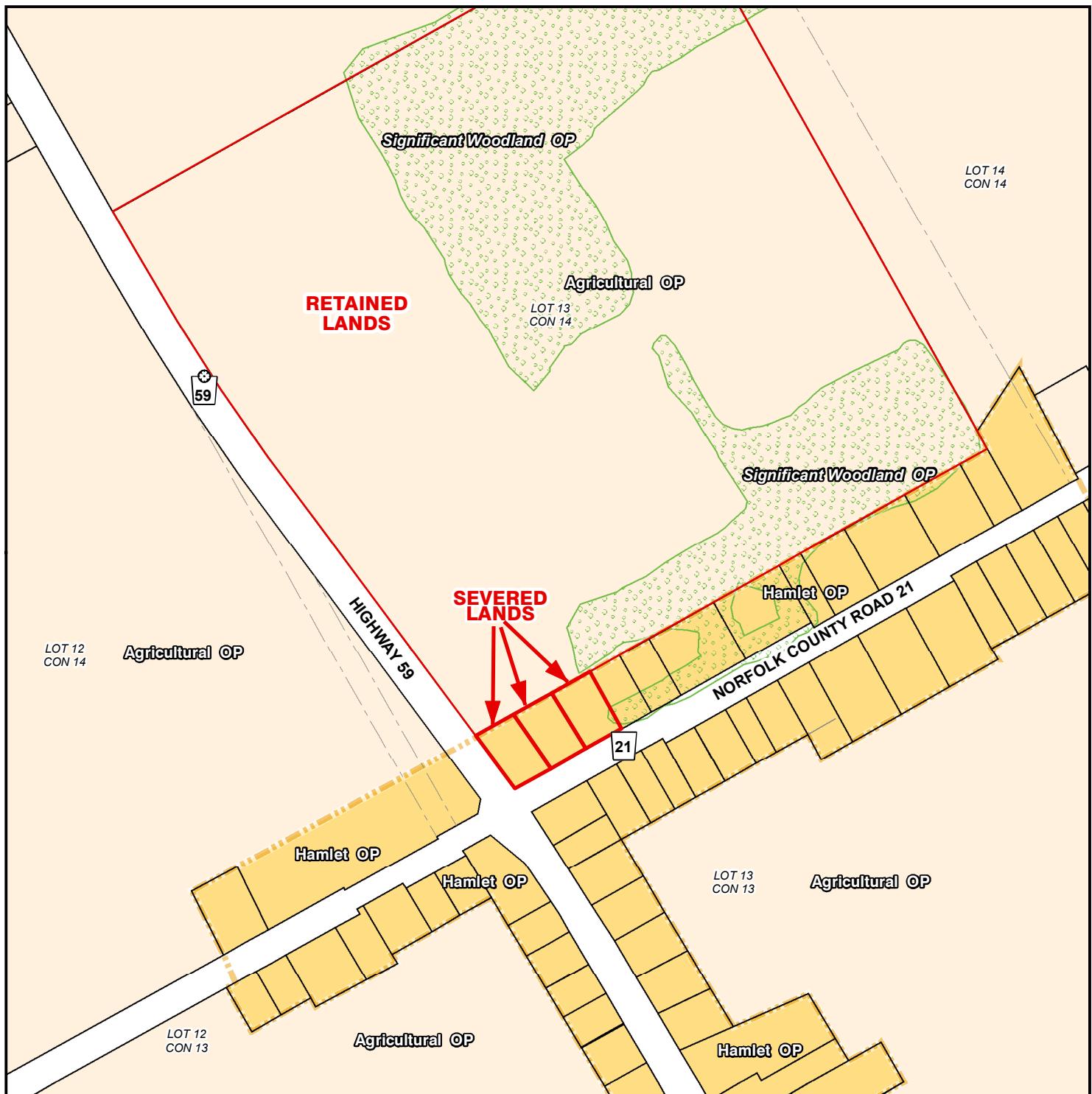
MAP B**OFFICIAL PLAN MAP**

Geographic Township of NORTH WALSINGHAM

BNPL2023371

BNPL2023372

BNPL2023373

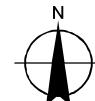
**Legend**

- Subject Lands
- Lands Owned

Official Plan Designations

- Agricultural
- Hamlet
- Hamlet Area Boundary
- Significant Woodland

12/14/2023



40 20 0 40 80 120 160 Meters

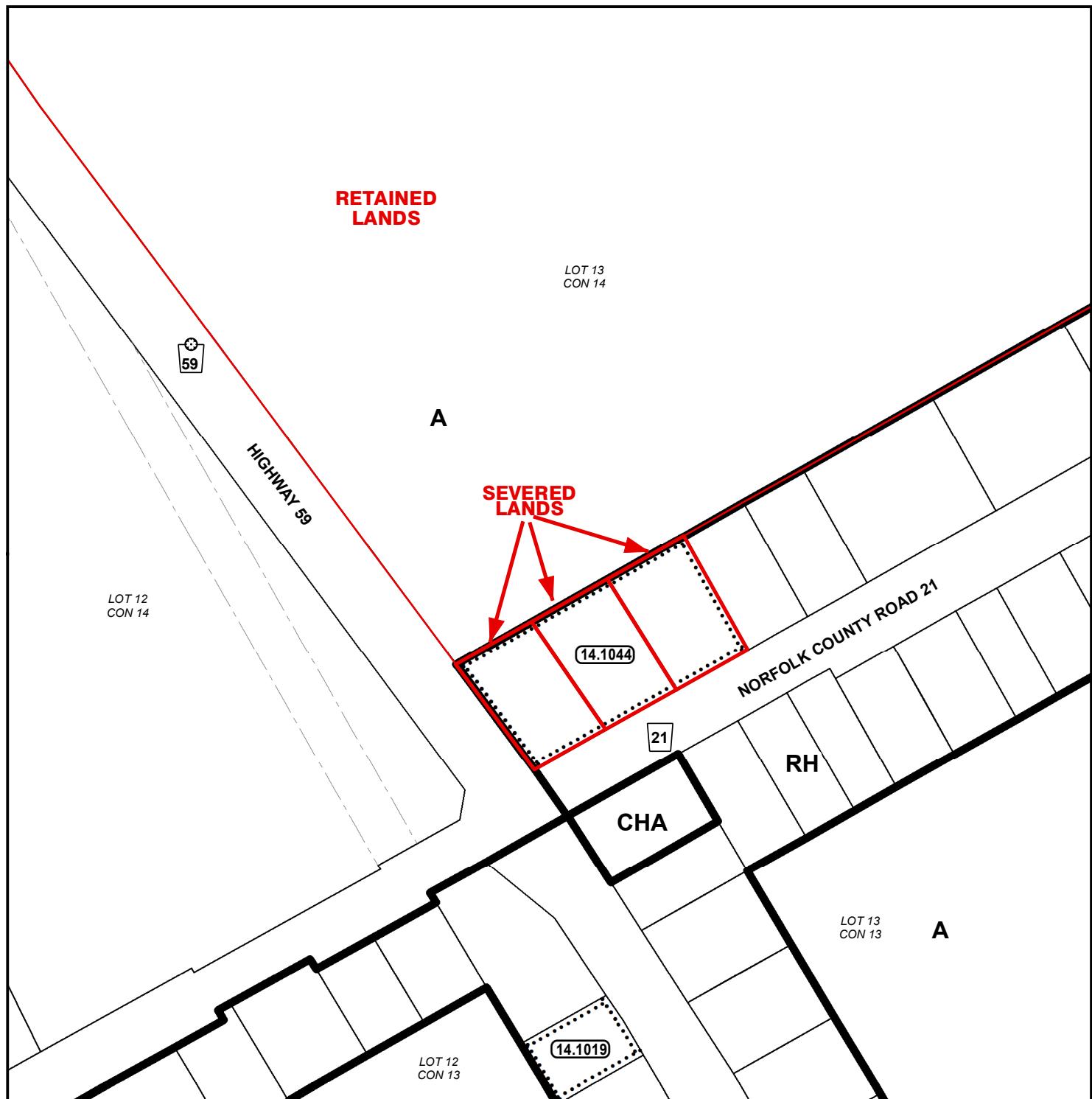
MAP C**ZONING BY-LAW MAP**

Geographic Township of NORTH WALSINGHAM

BNPL2023271

BNPL2023272

BNPL2023273

**LEGEND**

- Subject Lands
- Lands Owned

(H) - Holding

A - Agricultural Zone

CHA - Hamlet Commercial Zone

RH - Hamlet Residential Zone



20 10 0 20 40 60 80 Meters

MAP D

CONCEPTUAL PLAN

Geographic Township of NORTH WALSINGHAM

BNPL2023371

BNPL2023372

BNPL2023373

RETAINED LANDS



Legend

12/15/2023



- Subject Lands
- Lands Owned

LOCATION OF LANDS AFFECTED

CONCEPTUAL PLAN

Geographic Township of NORTH WALSINGHAM

BNPL2023371

BNPL2023372

BNPL2023373

RETAINED LANDS



Legend

- Subject Lands
- Lands Owned

12/15/2023



8.5 4.25 0 8.5 17 25.5 34 Meters