TOWNSHIP OF McNAB/BRAESIDE COMMITTEE OF ADJUSTMENT AGENDA

Tuesday, December 10, 2024 - 4:00 p.m. Township Municipal Office 2473 Russett Drive

- 1. Call to open hearing.
- 2. Minutes of the previous hearing, October 2, 2024.
- 3. Declaration of a Pecuniary Interest (Money/Financial).
- Consideration of Application No. A-6/24
 1232 Mill Ridge Road Kyle & Rachel Braatz
 - (a) Purpose of the Application
 - (b) Confirmation of Dates
 - (c) Confirmation of Notice
 - (d) Reading of Written Comments
 - (e) Overview of Planning Report
 - (f) Discussion and Public Participation
- 6. Decision by Committee for Application No. A-6/24, or call for a further hearing if required.
- 7. Appeal Rights
- 8. Adjournment

CORPORATION OF THE TOWNSHIP OF McNAB/BRAESIDE 2473 Russett Drive, Arnprior, Ontario K7S 3G8

Application for Minor Variance

Note: The "*" identifies prescribed information outlined in Ontario Regulation 200/96

PAR	<u>T I</u>	GENERAL INFORMATION				
1.	APPLICANT/OWNER INFORMATION					
	a) *Applicant's Name(s): Some Ladorte					
		*Address: 5724 Dunning rd., novom, On, K4B 151				
		*Phone #: Home (613) 299 5528 Work () Cell () E-mail: Samuel & Revolution build. Com				
	b)	*The applicant is: the registered owner [] an agent authorized by the owner []				
	c)	If the applicant is an agent authorized by the owner, please complete the following:				
		*Name of Owner: Kyle and Rachel Breatz				
		*Address of Owner: 1232 Mill Ridge rd, Applian				
		*Phone #: Home (6/3) 296 (4) 7 Work () Cell ()				
	d)	To whom should correspondence be sent? Owner [] Applicant [] Both []				
2.	*PRC	OVIDE A DESCRIPTION OF THE SUBJECT LAND:				
	Stree	et Address: 1232 Mill Ridge Rd				
	Cond	cession: Lot: <u>J</u>				
×	Regi	stered Plan No.: 571 Block or Lot No(s). in the Plan:				
	Refe	rence Plan No.: Part No(s).:				
3.	*CURRENT DESIGNATION OF THE SUBJECT LAND IN THE OFFICIAL PLAN (IF ANY):					
4.		RRENT ZONING OF THE SUBJECT LAND:				

DETAILS OF THE APPLICATION *PLEASE STATE THE NATURE AND EXTENT OF THE RELIEF FROM THE ZONING BY-5. Reduce minimum water set buch from 30m to 27m *WHAT IS THE REASON WHY THE PROPOSED USE CANNOT COMPLY WITH THE 6. PROVISIONS OF THE ZONING BY-LAW? The disign and went placement of the have shown't allow for the 7. *DIMENSIONS OF THE SUBJECT LAND: Area: 2.30c (9000 bg.m Frontage: 47.8 m Depth: 83m (average) *PLEASE MARK BELOW THE ACCESS TO THE SUBJECT LAND: 8. [] Provincial Highway [] Municipal Road Maintained All Year Municipal Road Maintained Seasonally [] Right Of Way []Water [] Other Public Road: *IF THE ONLY ACCESS IS BY WATER, PLEASE STATE BELOW THE PARKING AND 9. DOCKING FACILITIES THAT ARE TO BE USED, AND THE DISTANCE OF THESE FACILITIES FROM THE SUBJECT LAND AND FROM THE NEAREST PUBLIC ROAD: *WHEN WAS THE SUBJECT LAND ACQUIRED BY THE CURRENT OWNER? 10. Purchased have Movember 2021, closing was January 2022 *WHAT ARE THE EXISTING USES OF THE SUBJECT LAND AND HOW LONG HAVE THEY 11. **CONTINUED?** Since: Years #1 Since: Years *ARE THERE ANY BUILDINGS OR STRUCTURES ON THE SUBJECT LAND? 12. Yes [] No 13. *WHAT ARE THE "PROPOSED" USES OF THE SUBJECT LAND? Residential home, Small troop garage detailed

PART II

			EXISTING		PROPO	OSED
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Heig	ht (in metres)					
Dim	ensions or floor area					7
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	*INDICATE HOW W THE SUBJECT LA WATEF publicly owned and oper privately owned and oper privately owned and oper lake or other water body	ND: ated piped water ated individual	er system[] publicly on well [l/] publicly on al well [] publicly on [] privately on [] privy		SEWA piped sanitary communal se individual sep I individual se	AGE y sewage systemotic system
6.	*INDICATE HOW W THE SUBJECT LA WATEF publicly owned and opera privately owned and oper privately owned and oper lake or other water body	ND: ated piped water ated individual ated communicated communicated RAINAGE P	er system [] publicly on well [] publicly on all well [] publicly on [] privately on [] privy Other mea	wned and operated wned and operated wned and operated wned and operated	SEWA piped sanitary communal se individual sep I individual se	AGE y sewage systemotic system
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PART IV	*AFFIDAVIT: (This affidavit must be s	igned in the presence of a Commissioner)
I (we)	Samuel Japante	
of the	Township of Menab Brosside	
in the	Courty of rentgen	4
stater conscionade wyskii	ments contained in this application are tru cientiously believing it to be true, and know under oath and by virtue of the CANADA	
of Renfrey the	ARED before me at the this	day of November , 20 at
YOUNG Bigna for the Corporation of t	ture of Owner or Authorized Agent ture of Commissioner	Date Date Date
accessible, t mails or othe will be disclo anyone requ	imely and efficient. Accordingly, all writte er communications (including your name a sed/made available by the Township to s	provide for planning processes that are open, en submissions, documents, correspondence, eand address) form part of the public record and such persons as the Township sees fit, including providing any such information, you shall be as part of the planning process.
(To be comp	leted by the Municipality)	
	PLETE" APPLICATION AND FEE OF \$_ CIPALITY:	RECEIVED BY THE
Date		Signature of Municipal Employee
Roll N	lumber	

June 3 submission June 35th, 2024

10. DECLARATION OF FEES INCURRED

The Owner/Agent agrees to reimburse and indemnify the Township of McNab/Braeside of all fees and expenses incurred by the Township of McNab/Braeside to process the application, including any fees and expenses attributed to proceeding before the Local Planning Appeal Tribunal or any court or other administrative tribunal if necessary to defend Council's decision to support the application.

The Owner/Agent also agrees to deposit with the Township of McNab/Braeside such monies as required by the Township of McNab/Braeside's Tariff of Fees By-Law as amended to defend appeals brought before the LPAT by parties other than the Applicant/Agent or Township.

The required fee for the processing of this application shall be in accordance with the Township of McNab/Braeside's current Tariff of Fees By-Law pertaining to planning matters. The Fees prescribed do not include professional fees, (ie. legal or engineering) or extra public meetings. Prior to undertaking any of these matters the applicant agrees to reimburse the Municipality for all charges related to the application. Fees required for the processing of this application are required at the time of submission. The amount of the required fees should be confirmed with the Township prior to the submission of the application.

	This 15
Date	Signature of Owner/Agent
Date	Signature of Owner/Agent

20. APPLICATION SKETCH

On a separate page(s), please provide a sketch, preferably prepared by a qualified professional, showing the following: (In some cases, it may be more appropriate to prepare additional sketches at varying scales to better illustrate the proposal.)

-Boundaries and the dimensions of the subject land for which the amendment is being sought.

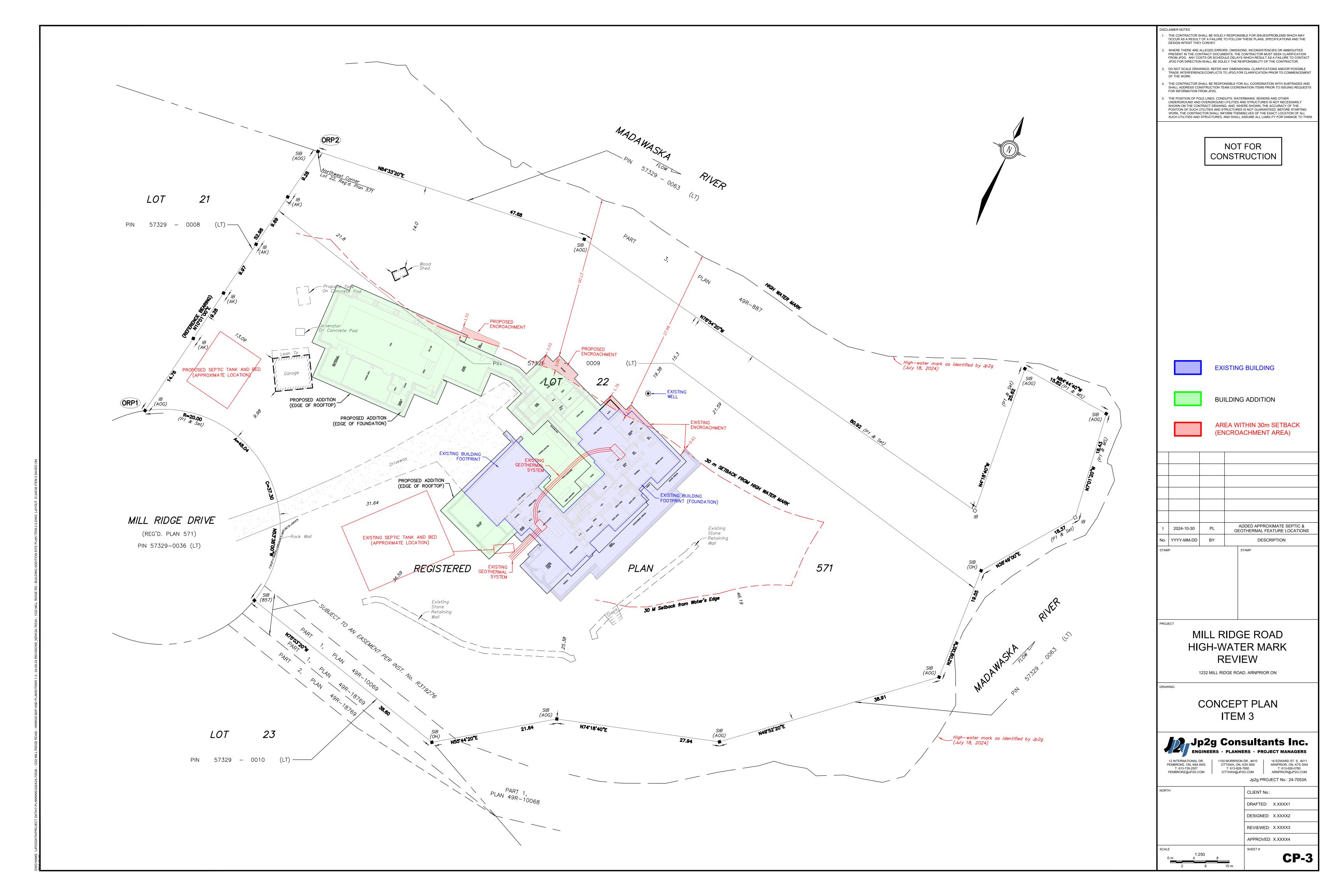
- The location, size and type of all existing and proposed buildings and structures, indicating the distances from the front yard lot line, rear yard lot line and the side yard lot lines.
- The approximate location of all natural and artificial features on the subject land and on land that is adjacent to the subject land that, in the opinion of the applicant, may affect the application. Examples include buildings, railways, roads, watercourses, drainage ditches, river or stream banks, wetlands, wooded areas, wells and septic tanks.
- The current uses on land that is adjacent to the subject land.
- The location, width, and name of any roads within or abutting the subject land, indicating whether it is an unopened road allowance, a public travelled road, a private road or a right of way.
- If access to the subject land is by water only, the location of the parking and docking facilities to be used.
- The location and nature of any easement affecting the subject land.
- Applicant's Name
- Date of Sketch
- The scale to which the sketch is drafted (e.g. 1 cm = 50 m)
- North Arrow
- The locations and dimensions of off-street parking spaces and off-street loading facilities

(If affidavit (Part IV) is signed by an Agent on Owner's behalf, the Owner's written authorization

- Planting strips and landscaped areas
- Buildings to be demolished or relocated.

PART III AUTHORIZATION OF OWNER FOR AGENT TO MAKE THE APPLICATION:

below must be completed)	the state of the s
1 (we) kyle Brook	
of the Township of Mens buside	
in the country of renform	
do hereby authorize Samuel Laplante	to act as my/our agent in this application.
Signature of Owner(s)	Date



Kyle Braatz

1232 Mill Ridge Road Arnprior, Ontario, K7S 3G8 (613)-296-1417 braatzy55@gmail.com

September 25, 2024

Township of McNab/Braeside

2473 Russett Drive, Arnrpior, Ontario, K7S 3G8

Dear Planning Department (Building and Septic),

Re: Minor Variance Application for Setback Adjustment –1232 Mill Ridge Road, Arnprior, Ontario, K7S 3G8

I am writing to formally request a minor variance for a setback of 3.00 meters in order to allow us to proceed with our plans to apply for building permits and begin construction on an addition to our home located at 1232 Mill Ridge Road, Arnprior, Ontario, K7S 3G8.

As part of the planning process, my wife, Rachel Braatz and I commissioned an Improvement Location Certificate (ILC) survey of our property to determine the water setbacks and to assess the position of our existing home. We also hired a biologist to do a GPS and mark the high water mark on the existing surveyor plans as well as to prepare a report regarding recommended mitigation measures to be taken pre-construction, during construction and post-construction to ensure the least drainage, sediment and erosion impacts. Finally, we hired a hydrogeologist to prepare an engineering report to evaluate the proposed overfall septic effluent and make recommendations regarding the septic system design. Our proposed addition plans showing the existing home and all setbacks are attached as well as the biologist and hydrogeologist Reports.

After carefully reviewing our property's layout and considering the various site constraints, we have determined that the proposed location for the addition is the only viable option. The proposed addition will be designed in an "L" shape to fit harmoniously with the existing home and surrounding landscape and to wrap around the existing driveway.

Specifically, this location was selected for the following reasons:

- 1. The back of the house is composed of floor-to-ceiling windows, which we aim to preserve for natural light and scenic views.
- 2. Geothermal wiring runs underground to the left of the house, restricting construction in that area.
- 3. Our septic bed and tank are also located to the left of the house, further limiting options for the addition; and
- 4. The driveway lies in front of the house.

In addition to these considerations, we have made a conscious effort to design the addition in a way that minimizes disruption to the existing home, vegetation, and the natural environment around the home. We believe this location respects both the aesthetics of the property and the surrounding area while fulfilling our needs for additional living space.

We kindly ask for your approval of this minor variance so we may move forward with our project and apply for building permits. There are a total of three (3) areas with a minor encroachment in our attached proposed plans, ranging from 1.5 meters to 3.00 meters. Therefore, we are requesting approval for the largest encroachment which is 3.00 meters.

We are committed to complying with all relevant regulations, following all recommended mitigation measures and working in harmony with the Township to ensure that the addition enhances both our home and the community.

Thank you for your time and consideration. Should you require any further information or clarification, please do not hesitate to contact me.

We look forward to your response.

Sincerely,

Kyle Braatz

613-296-1417

braatzy55@gmail.com



Jp2g No. 24-7053A September 24, 2024 Lev Design Build 613-299-5528

Attn Samuel Laplante, President

samuel@levdesignbuild.com

Re Scoped Environmental Impact Assessment (EIA) - 1232 Mill Ridge Road
Part Lot 7, Concession 8, Geographic Township of McNab, Now in the Township of McNab/Braeside

Dear Samuel:

The purpose of this report is to support a minor variance application to reduce the minimum required water setback from the Madawaska River in order to permit an addition to an existing dwelling located at 1232 Mill Ridge Road within the area of the water setback.

Site Context

The subject lands are located at the end of Mill Ridge Road on the Madawaska River. The subject lands are approximately 2.3 acres in land area with approximately 47.8 metres of road frontage on Mill Ridge Road and 313 metres of water frontage on the Madawaska River.

Description of Proposed Development

A \sim 615 m² addition is proposed to the northwest of the existing residential dwelling with attached garage (\sim 419 m²) on the subject lands which will be located approximately 27 metres from the high water mark of the River. Other additions are proposed to the existing dwelling, however as they are located outside of the 30 metre setback from the River, they are not addressed in this report. It should also be noted that a second septic system may also be constructed on the subject lands, but it will be located at least 30 metres from the high water mark of the River as well.

Existing Conditions

A site visit to the subject lands was carried out by Bryana Kenny on July 18, 2024 under sunny conditions, with a light breeze and an air temperature of 18°C. The topography of the subject lands is relatively flat and gently slopes towards the River. The lands in the area of the proposed addition within the area of the water setback primarily consist of a manicured lawn area with some scattered trees (Photo 1). A forested area is located along the shoreline of the River and contains a gravel pathway that extends from the driveway to the shoreline (Photos 2 & 3). To the west of the pathway, this forested area has been relatively untouched, but to the east of the pathway, the understory of this forest has been cut but is re-growing with herbaceous vegetation, trees and shrubs (Photo 2). The shoreline of the River is rocky and contains some shrubs, herbaceous vegetation and grass species and drops off to the bottom of the River (Photo 4).

During the July 18 site visit, the highwater mark as shown on the enclosed Map was determined by Jp2g field staff using the Township's zoning by law definition for High water mark: means the mark made by the action of water under natural conditions on the shore or bank of water, which action has been so common and usual and so long continued that it has created a difference between the character of the vegetation or soil on one side of the mark and the character of the vegetation or soil on the other side of the mark.





Photo 1 – Site Conditions of Proposed Addition in Water Setback Area. View Looking Northwest from Corner of Existing Dwelling.



Photo 3 - Site Conditions of Existing Setback View Looking Southeast.





Photo 4 – Site Conditions of Shoreline. View Looking West.





The Township of McNab/Braeside Zoning By-law No. 2010-49 requires a minimum 30 metre water setback from the high water mark. In this case, the existing dwelling on the subject lands is located 27.98 metres from the high water mark and the proposed addition will be located at least 27.0 metres from the high water mark as shown on the enclosed Map. Any new septic system will be located at least 30 metres from the highwater mark of the River. A reduction to the water setback provisions for the proposed addition can be supported in this case for the following reasons:

- The lands within the area of the water setback in front of the proposed addition are primarily well vegetated with trees and shrubs along a gentle slope to the River;
- The majority of the lands within the proposed building envelope consist of a maintained lawn area, with some scattered trees. Although some tree removal will be required to accommodate the proposed addition, only a few trees will need to be removed within 30 metres of the River;
- Only approximately 25.6 m² of the proposed addition will be located in the area of the water setback. Approximately half of which is for structures which will physically be located on the ground (i.e a grill terrace and a portion of the guest suite), the other half being for structures which will be located above the ground (i.e. a balcony and roof overhang), with a maintained lawn underneath;



- The requested 3 metre reduction to the water setback is considered minor and is only 0.98 metres more
 of an encroachment into the water setback than the existing dwelling which currently encroaches 2.02
 metres into the water setback; and
- The recommended mitigation measures below can be properly implemented to ensure no negative impacts occur on the River as a result of the proposed development within a small portion of the water setback.

Therefore, it is our opinion that the proposed development will not have a greater impact on the quality of the River water, natural features or on neighbouring properties than what currently exists and will provide the same ecological functions of a 30 metre setback in less ideal conditions.

Recommended Mitigation Measures

- 1. The proposed addition is to be constructed a minimum of 27.0 metres from the high water mark of the Madawaska River.
- 2. Any new septic system is to be located a minimum of 30 metres from the high water mark of the Madawaska River.
- 3. A 27.0 metre wide buffer area should be maintained along the shoreline of the Madawaska River in the vicinity of the proposed addition, with the exception of the existing gravel pathway leading to the River. This buffer area should be maintained substantially in a natural vegetated state. The limbing of trees to provide for a view of the River and the removal of dead or diseased trees shall also be permitted but limited to the greatest extent possible.
- 4. Vegetation on the subject lands outside of the buffer area should also remain in a natural state as much as possible, except for the clearing of portions of the property to allow for the construction of structures.
- 5. Roof runoff should be controlled by directing water runoff to the rear of the new structures through the use of eave troughs and rain barrels or to a grassed or other permeable area.
- 6. The extent of exposed soils is to be kept to a minimum at all times. Re-vegetation with native trees and shrubs of exposed, non-developed areas is to be achieved as soon as possible.
- 7. Erosion and sediment control measures are a critical component of the construction work. Effective sediment and erosion control measures are to be maintained until complete re-vegetation of disturbed areas is achieved. Silt fencing is to be installed along the downgradient edge of the work area. It is important that fencing is properly dug-in to treat any surface water flow and is maintained as required, including removal of accumulated sediment.
- 8. Additional mitigation measures to minimize the potential for inputs of sediments and other contaminants into the river and the environment in general include proper maintenance on construction equipment with respect to refuelling, washing and fluid changes, and proper disposal of fluids, filters and other waste materials. None of this work should take place within 30 metres of any surface water features.

Should you have any questions please do not hesitate to contact our office.

Yours truly,

Jp2g Consultants Inc.

Bryana Kenny, B.Sc. (Hons.)

Bryener Kerry

Biologist | Planner

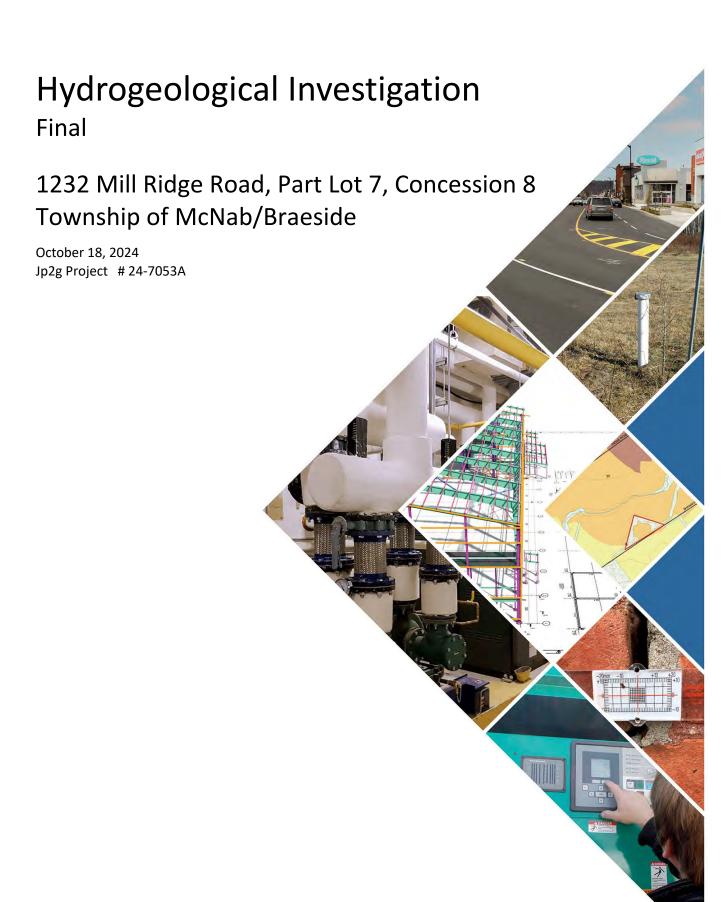
Muncaster Environmental Planning Inc.

Bene Must

Bernie Muncaster, M.Sc.

Principal









DISTRIBUTION LIST

PDF	Association / Company		
1	Lev Design Build		
1	Jp2g Consultants Inc.		

Jp2g Consultants Inc. Signatures

Abdul Athaj

Report Prepared By:

Abdul Kadar Alhaj, EIT

Environmental Technologist

Report Reviewed By:

Kevin Mooder, MCIP RPP

Manager | Environmental Services

Report Reviewed By:

Andrew Buzza, P.Geo

Senior Hydrogeologist



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1.0 INTRODUCTION

Jp2g Consultants Inc. (Jp2g) was retained by Lev Design Build to undertake a scoped hydrogeological investigation for the proposed development of the property located at 1232 Mill Ridge Road on Part of Lot 7, Concession 8 in the Township of McNab/Braeside, in the County of Renfrew, as shown on **Figure 1**.

This hydrogeological investigation was completed to support the proposed redevelopment of the site. It is understood the approval authority requires an evaluation of the current septic system and recommendations for the new system.

Accordingly, the intent of the study is to demonstrate that the site is suitable to accommodate a new septic system, and to attenuate effluent at the property boundary.

1.1 Objectives and Activities

The objective of the study is to assess the site's suitability for development based on individual private services (i.e., the presence of a potable water supply, both quality and quantity and the ability to adequately disperse effluent). The following work activities were completed:

- Completion of a desktop review of published geology maps
- Review of surrounding land uses
- Review of nearby water well records
- Collection of water quality samples from two (2) nearby domestic wells
- Report preparation

2.0 SITE BACKGROUND INFORMATION

The study site is located at 1232 Mill Ridge Road on Part of Lot 7, Concession 8 in the Township of McNab/Braeside, in the County of Renfrew, Ontario. The site is irregularly shaped and covers approximately 9,000 m². Adjacent land use is primarily low-density rural residential and agricultural development, and undeveloped forested areas. The property has a residential dwelling as shown on Figure 1 and is serviced by a drilled well and septic system.

3.0 PHYSICAL SETTING

3.1 Geology

Geological data is taken from published mapping and water well records and indicates that the study site is overlain by deep deposits consisting of silt and clay¹. Recorded overburden depths as taken from nearby water well records range from 9 to 21 meters.

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¹ Ontario Geological Survey 2010. Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 128-RFV



The underlying bedrock within the surrounding area is mapped as limestone, dolostone and sandstone of the middle Ordovician Group². Local well records confirm the presence of granite and limestone with recorded thicknesses ranging from 9 to approximately 133 meters.

3.2 Hydrogeology

A review of the Ministry's Water Well Record (WWR) database reveals the presence of numerous water well records in the area. Eight (8) nearby water wells were selected for review and analysis. The water well records confirm that the wells are primarily used for domestic purposes and are all completed in the underlying bedrock. The wells are reported to vary in depth from approximately 21 and 133 meters with water bearing zones at depths between 18 and 49 meters. Overall, recommended pumping rates vary between 14 and 68 Lpm (3 and 15 gpm).

The available water well records indicate that an adequate supply of fresh water is available from the bedrock aquifers near the site. Well details including stratigraphy are provided in **Table 1**.

Copies of the water well records are provided in **Attachment A** and their locations based on the Ministry website coordinates are presented in **Figure 2**.

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² Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-- -Data 126-Revision 1.



Table 1: Summary of Nearby Well Records

Well ID	Distance and Direction from site	Depth (m)	Overburden Description (mbgs)	Bedrock Description (mbgs)	Groundwater Encountered (mbgs)	Recommended Pumping Rate
7312971* (A231889)	On site (1232 Mill Ridge Road)	133	Clay 0 – 20.8	Granite 20.8 – 133	31.8	3 gpm (14 lpm)
5514302*	30M S (1230 Mill Ridge Road)	36.6	S6.6 I ' I I I I I I I I I I I I I I I I I		15 gpm (68 lpm)	
7148961 (A092638)	30m W	40.2	Clay 0 – 15.8 Gravel 15.8 – 16.2	Limestone 16.2 – 40.2	29.9	7 gpm (32 lpm)
5515789 (A018274)	270m SW	21.3	Clay 0 – 5 Sand 5 – 9.4	Limestone 9.4 – 14.3 Granite 14.3 – 21.3	13.1 and 14.3	12 gpm (55 lpm)
5513071	330m SW	51.8	Clay 0 – 20.4	Limestone 20.4 – 26.5 Granite 26.5 – 51.8	22.3	3 gpm (14 lpm)
5515932 (A019947)	370m SW	29	Clay 0 – 13.7	Limestone 13.7 – 18.6 Granite 18.6 – 29	16.5	10 gpm (46 lpm)
5513070	390m SW	29	Clay 0 – 20.4 Sand 20.4 – 20.7	Limestone 20.7 – 26.8 Granite 26.8 – 29	22.3	6 gpm (28 lpm)
5503355	470m SW	48.8	Clay 0 – 20.7	Limestone 20.7 – 48.8	36.6 and 48.8	6 gpm (28 lpm)

Notes mbg

mbgs metres below ground surface

gpm gallons per minute lpm litres per minute (#) Well tag ID * Sampled Well

4.0 GROUNDWATER SUPPLY

The following sections provide a discussion on the available quantity and quality of the groundwater at and around the study site. The assessment is based on information provided in the Ministry's water well records (WWR) and interviews with the onsite and nearby groundwater users where samples were collected. Water quality is based on the results of the water quality testing of the onsite and nearby residential supply wells.

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On September 11th, 2024, two (2) residential supply wells were sampled, their locations are shown on **Figure 2**. The sampled supply wells are located at the subject property (drilled well No. 7312971) and at 1230 Mill Ridge Road (drilled well No. 5514302). The residents at both properties were interviewed and confirmed an adequate supply of groundwater. Copies of the interview questionnaires are provided in **Attachment B**.

4.1 Groundwater Quality

To assess the groundwater quality, water samples were collected from the two wells as shown on **Figure 2**. The samples were collected by a Jp2g field technician. The samples were collected bypassing any water treatment systems. Conductivity, pH, temperature, turbidity, and chlorine residual were measured at the well head at the time of sampling using a multimeter pen to measure the pH, a HANNA Photometer (model HI97727-11) to measure the colour and chlorine residual, and a HACH 2100P Turbidimeter to measure the turbidity. The collected groundwater samples were submitted to an accredited laboratory for analysis of an inorganic and bacteriological suite of parameters consistent with parameters listed in the Ministry's *Procedure D-5-5 Technical Guideline For Private Wells: Water Supply Assessment.* The results are summarized in **Table 2** and laboratory reports are provided in **Attachment C**.

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Table 2: Water Quality of the Sampled Wells

Parameter mg/L	ODW	s/og	Drilled Well 7312971	Drilled Well 5514302
	AO/OG	MAC	1232 Mill Ridge Road	1230 Mill Ridge Road
Calcium	-	-	56	86
Iron	0.3 (10)	-	<0.03	0.11
Magnesium	-	-	39	50
Manganese	0.05 (1)	-	<0.01	0.02
Potassium	-	-	6	6
Fluoride	-	1.5	1.0	0.36
Chloride	250	-	39	31
Sulphate	500	-	29	16
Nitrate (as N)	-	10	<0.1	0.18
Nitrite (as N)	1	-	<0.1	<0.1
Sodium	200	20	61	20
TDS	500	-	507	526
Tannin & Lignin	-	-	0.1	0.2
Colour (TCU) (Apparent)	5 (7)	-	<2	3
Colour (TCU) (Field)	5 (7)	•	4	20
Turbidity (NTU) (Field)	5		0.42	0.68
Chlorine Residual (Field)	-	•	0	0
DOC	5	-	1.1	1.3
pH (pH units) (Field)	6.5 - 8.5	-	7.6	7.20
Alkalinity (as CaCO₃)	30 - 500	-	351	411
Conductivity (μS/cm)	-	-	780	810
Hardness	80-100 (OG) 500	-	300	421
TC (cfu/100mL)	-	0	0	0
EC (cfu/100mL)	-	0	0	0
FC (cfu/100mL)			0	0

Notes: ODWS/OG – Ontario Drinking Water Quality Standards, Objectives and Guidelines

AO/OG – Aesthetic Objective/Operational Guideline

MAC – Maximum Acceptable Concentration

BOLD Exceedances to the ODWS

(#) Maximum concentration considered reasonably treatable.

All values are in mg/L unless stated otherwise

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The water sample from 1232 Mill Ridge Road was collected from the kitchen tap, initially the homeowner stated there was no treatment system, however it was later confirmed there was a water softener. The results revealed all health-related parameters to be less than the Ontario Drinking Water Objectives. The following were measured to be above the Ontario Drinking Water Standards aesthetic and or operational guidelines:

- Hardness was measured to be outside of the desired operational range of 80 to 100 mg/L with a level of 300 mg/L. The aesthetic level for hardness is 500 mg/L above which the water is considered unacceptable for most domestic purposes. Hardness can be reduced using a variety of treatment technologies including readily available water softeners if desired.
- TDS was measured with a concentration of 507 mg/L. Total dissolved solids at this concentration can be effectively treated and reduced through the use of a water softener.

The raw water sample from 1230 Mill Ridge Road was collected from the external hose pipe and bypassing any treatment units. The sample analysis revealed all health-related parameters to be less than the Ontario Drinking Water Objectives. The following were measured to be above the Ontario Drinking Water Standards aesthetic or operational guidelines:

- Hardness was measured to be outside of the desired operational range of 80 to 100 mg/L with levels of 421 mg/L. The aesthetic level for hardness is 500 mg/L above which the water is considered unacceptable for most domestic purposes. Hardness can be reduced using a variety of treatment including readily available water softeners if desired.
- TDS was measured with a concentration of 526 mg/L, which slightly exceeds the aesthetic objective of 500 mg/L. TDS can be effectively treated and reduced through the use of a water softener.
- Colour was measured on the field to be 20 TCU, above both the AO of 5 TCU and the D-5-5 treatability limits of 7 TCU. The colour can be attributed to the levels of organic materials (tannin and lignin) that are encountered, which impart a yellow/brown tinge to the water. The presence of iron (precipitated solids) may also be a contributor of elevated colour. However, lab analysis revealed colour (apparent) to be 3 TCU, less than both the AO of 5 TCU and the D-5-5 treatability limits of 7 TCU.

The Langelier Saturation Index (LSI) and Ryznar Stability Index (RI) are used to evaluate the stability and corrosiveness of water. The LSI measures the pH at which water is saturated with calcium carbonate, while the RI assesses water's aggressiveness, indicating its potential to scale and corrode. Calculations for both samples are detailed in **Attachment D**.

Using a water temperature of 20°C, the LSI values were 0.567 and 0.381 for the 1232 and 1230 Mill Ridge Road samples, respectively. An LSI of 0.567 indicates that the water is scale-forming but not corrosive, whereas an LSI of 0.381 suggests slight scale forming and corrosive. The RI values were 6.466 and 6.437 for the 1232 and 1230 Mill Ridge Road samples, respectively. Both RI values indicate that the water is forming light scale or corrosion.

Based on the water quality results, the water quality analysis from the sampled well reveals a suitable potable groundwater supply for domestic use.

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5.0 SEPTIC SYSTEM ASSESSMENT

The new development will include 2 additional bedrooms and 136 m² of living area. The indoor pool house is not considered as a relevant additional living space and is not included in redesign calculations. A summary of the redesign septic system flow calculations is provided in **Table 3**.

Table 3: Summary of Septic Calculation

	# of Bedroom		Tota	Total Living Area (m²)			Fixtures		
	Existing	Proposed additional	Existing	Proposed additional	Total	Existing	Proposed additional	Total	
	4	2	302	136	438	25.5	28	54	
Design Flow (L/d)	2000	1000			2300			1700	

The proposed total design flow is calculated as follows: 2000 + 1000 + 2300 = 5300 L/d. Accordingly, the proposed septic tank size is $5300 \times 2 = 10600 \text{ L}$.

Currently, the existing septic system on-site is designed for a total daily flow of 3000 L/d with a septic tank size of 6000 L. Therefore, an additional septic system is necessary. This new system should be designed by a qualified septic system installer and approved by the chief building official.

6.0 GROUNDWATER IMPACT ASSESSMENT

The methodology for the water quality impact assessment is described in the *Ministry's Procedure D-5-4 Technical Guideline For Individual On-site Sewage Systems: Water Quality Impact Assessment.* The intent of the assessment is to ensure that the effluent discharge from the proposed septic system will not significantly impact off-site properties. The guideline describes nitrate as being the critical contaminant of concern and the Ontario Drinking Water Objective (ODWO) of 10 mg/L as the indicator of groundwater impact.

The assessment involves a three-step process, and typically, the need to advance to the next step depends on the conditions that are defined in the previous step. The three steps are:

- 1. Lot size consideration for lots greater than 10,000 m²;
- 2. System Isolation Consideration for evaluating the relationship between the septic systems and the potable groundwater supply; and
- 3. *Contaminant Attenuation Consideration* which considers the contaminant loading to the groundwater.

For this assessment, we have provided a predictive nitrate-nitrogen attenuation model to determine if sufficient attenuation of nitrate-nitrogen could be achieved on the Study Property.

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The Thornthwaite Water Balance method, in conjunction with local climatic data available from Environment Canada Climate Normals (Renfrew Weather Station: Canadian Climate Normals 1981-2010 Station Data - Climate - Environment and Climate Change Canada (weather.gc.ca)) was used to estimate the net potential infiltration for the proposed study property provided in **Attachment E**. The nitrate concentrations at the site boundaries were calculated based on the following:

- Site hydrology includes flat land, cultivated, and sandy loam material.
- Background nitrate value of 0.0 mg/L (based on the collected sample from the on-site well at 1232 Mill Ridge Road)
- Following the *Ministry's Technical Guideline Procedure D-5-4 for Individual On-site Sewage Systems:* a sewage nitrate-nitrogen concentration volume of 1,000 L/day at 40 mg/L is used in the assessment, and
- Property size of 9000 m².

Using the above input parameters, the dilution calculation results in a nitrate value of 7.0 mg/L (<10mg/L) at the property boundary which is considered acceptable.

Accordingly, it is concluded that the impact of the proposed development on the groundwater at the downgradient property boundary is considered acceptable and the site can accommodate the proposed development.

7.0 CONCLUSIONS

- The study site is approximately 9000 m² and is located at Mill Ridge Road on Part of Lot 7, Concession 8 in the Township of McNab/Braeside, in the County of Renfrew.
- The proposed development involves the addition of living area, garage and pool house to the existing dwelling. The additional relevant living area is 136 m².
- Based on a review of water well records in the surrounding area, water bearing zones are
 present at depths between 16.6 and 48.8 meters. Existing mapping and nearby water well
 records indicate the presence of clay overlying the bedrock surface.
- Water well records indicate that the underlying bedrock aquifer provide an adequate supply of potable water.
- Water quality samples were collected from two properties:
 - o 1232 Mill Ridge Road On site and Bedrock well.
 - o 1230 Mill Ridge Road neighbouring and Bedrock well.
- The analytical results for the untreated water samples collected reveal that all parameter concentrations to be less than the Ontario Drinking Water Standards Health-Related guidelines (ODWS). The following were measured to be above the Ontario Drinking Water Standards aesthetic or operational guidelines:
 - Hardness was measured to be outside the desired operational range of 80 to 100 mg/L with levels of 300 and 421 mg/L for the 1232 and 1230 Mill Ridge Road samples, respectively. The aesthetic level for hardness is 500 mg/L above which the water is considered unacceptable for most domestic purposes. Hardness can be reduced using a variety of treatment including readily available water softeners if desired.
 - TDS was measured with a concentration of 507 and 526 mg/L for the 1232 and

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1230 Mill Ridge Road samples, respectively. The levels slightly exceed the aesthetic objective of 500 mg/L. TDS can be effectively treated and reduced through the use of a water softener.

 Based on the application of Ministry Procedure D-5-4 Lot Size Considerations, the size of the lot and soil conditions is suitable to attenuate the septic impacts generated by the septic system.

8.0 RECOMMENDATIONS

- The on-site well should be inspected and maintained according to the Best Management Practices (BMP) guidance documentation for wells.
- The setback distance from the existing well to the proposed new sewage system shall be at least 15 meters. This separation distance must also be maintained from the existing well on the adjacent property to the sewage system; and
- The homeowner is advised to have the on-site wastewater system inspected regularly and to follow a wastewater system management program to minimize the risk of failure.

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Figures



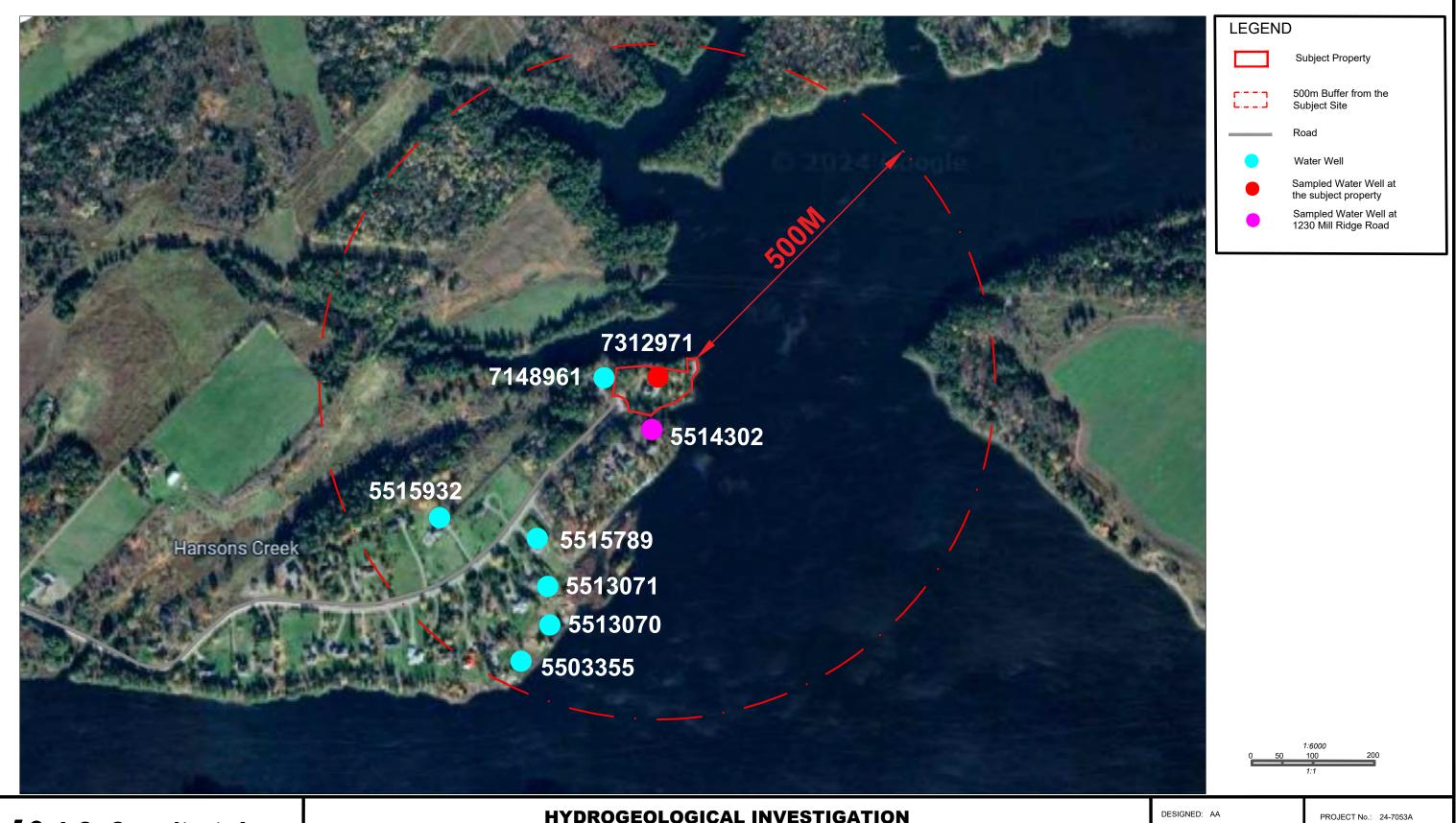


12 INTERNATIONAL DRIVE, PEMBROKE, ON Phone: (613)735-2507, Fax:(613)735-4513 Phone: (613)828-7800, Fax: (613)828-2600

HYDROGEOLOGICAL INVESTIGATION

1232 MILL RIDGE ROAD, PART LOT 7, CONCESSION 8, TOWNSHIP OF MCNAB/BRAESIDE, ONTARIO SITE PLAN

DESIGNED: AA		PROJECT No.: 24-7053A
DRAFTED: AA		REVISION DATE: 05-09-2024
CHECKED: AB	APPROVED: AB	REVISION No.: R0.
SCALE: 1:5000		FIGURE 1





HYDROGEOLOGICAL INVESTIGATION

1232 MILL RIDGE ROAD, PART LOT 7, CONCESSION 8, TOWNSHIP OF MCNAB/BRAESIDE, ONTARIO

Water Wells within Approximately 500 meters of Subject Site

DESIGNED: AA	PROJECT No.: 24-7053A
DRAFTED: AA	REVISION DATE: 05-09-2024
CHECKED: AB APPROVED: AB	REVISION No.: R0.
SCALE: 1:6000	FIGURE 2

Attachment A Water Well Records



Veasurements recorded in:

Ministry of the Environment and Climate Change

Imperial

☑ Wetric

Well Tag No. (Place Sticker and/or Print Below)

Tag#:A 231889

Well Record

Regulation 9	903	Ontario	Water	Resoure	ces Act
		P	age	of	

Address of Well Loc	ation (Street Nun	nber/Name)	21	T	ownship	4	Lot	C	oncession		
County/District/Mun	icipality	<u> 496</u>	<u> </u>	C	ity/Town/Village	4 <u>.)</u>		Province		Posta	I Code
JTM Coordinates 2	one , Easting	1 No	orthing		Junicipal Plan and Sublo	t Number		Onta) Other	rio		***************************************
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Ministry of the Environment

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Ministry of the Environment

Measurements recorded in: Metric Imperial

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Well Record

Regulation 903 Ontario Water Resources Act

Page

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	Open hole	10.86	21.33	50	7.77 50 5.79
				60	7.83 60 5.79
Plugging and Se	pe (bentonite slurry, neat cement slurry	lar space Abandonment Volume Placed		Location of Well show distances of well from road,	lot line, and building.
From Io	TONITE SLURR	(cubic metres)	Indicate north by	MILL RIDG	SE RO.
					- T
			_	136.5	In)
			-	1 1	(
	Method of Construction			L 0	4
Cable Tool Rotary	(air) Diamond	☐ Digging ☐ Other		Mu.s	•
Rotary (conventional) Rotary (reverse) Boring	Driving			, (''	•
Domestic Industri	Water Use ☐ Public Sup	oply Other	-	na a na maria	
Stock Comme	ercial Not used	air conditioning	- Audit Ala —	MADAWASKA	Completed
	Final Status of Well		Audit No. Z	18432	04 09 25
	rell Unfinished , insufficient supply Dewaterin	I) Was the well ow package delivered		OY OF ZS
☐ Test Hole ☐ Abandoned,	poor quality Replacem	ent well		Ministry Use Only	
Name of Well Contractor		Well Contractor's Licence No.	Data Source	Contractor	4879
Business Address (street name, numb	ber, city etc.)	Total Control of the	Date Received	YYYY MM DD Date of Insp	ection YYYY MM DD
Name of Well Technician (last name,	UNF MAIN K	DR 160 Well Technician's Licence No.	OCT-4	1 2004 Well Record	
SAUNDERS		Well Technician's Licence No.		VVeii (tecore	
Signature of Technicia //Controctor		04			515789
0506E (09/03)	Contractor's Copy [Vinistry's Copy 🚺 Well O	wner's Copy	Cette formule	est disponible en français
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The Ontario Water Resources Act WATER WELL RECORD

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Mark correct box with a checkmark, where applicable.

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10	14 15				•	22	22	24

County or Distric	t	/Borough/City	A/City/Town/Village Con_block_tract_surv					y, etc. Lo	カム		
			Address			דותם	- V7	1576	Date completed	25	9 97
-	T į			Northing	W C C		ation RC	Basin Code		day m	ionth year
1 2	M -	LOG OF O	/ERBURDE	N AND BED	PROCK MA	TERIALS	(see instruc	ctions)			47
General colour	Most common mat	erial	Otl	her materials			Gener	al description		From	pth – feet To
BROWN	CLAY						FI	LL		0	1
BROWN							DE	NSE	<u> </u>	1	18
BROWN	1				······································)FT		18	43
GREY	CLAY						S	JET	***************************************	43	67 E
BROWN	Ĺ						FRA	CTURE	<i>D</i>	67 2	68
BROWN	GRANITE)E								87	87
0121	GRIVITE									01	170
									<u> </u>		
31 32				<u> </u>							لا لىل
10 14	TER RECORD	51	CASING &	OPEN HOL			Sizes of	opening	65 31-33 Diameter	34-38 Leng	75 80
Water found at - feet	Kind of water	Inside	Material	Wall thickness inches	Depth -		/Clat No			nches	feet
732 2 1	Fresh ³	10-11 1	Steel 12 Galvanized	1 OD		13-16	Material	and type		Depth at top	of screen
15-18 1	Fresh Sulphur Minerals Salty Gas	104 1 i		0100	0"	172	61	DILICON	IG & SEALIN	0 05000	feet
20-23	Fresh ³ Sulphur ²⁴	2 🗆	Steel 19 Galvanized		-11	20-23		Annular spac		Abandonm	
	Salty 6 Gas		Concrete Open hole Plastic		1/2	170	From	To Mat	erial and type (Cer		ntonite, etc.)
30-33	Salty 6 Gas Fresh 3 Sulphur 34 60	2 🗆	Steel ²⁶ Galvanized Concrete			27-30	12) 21	550	comment of	Now	
1	Fresh	4 🗆	Open hole				10 26 299	30-33 80		in and	7
71 Pumping test m	ethod 10 Pumping rate	3 GPM .	ration of pumpin	17-18 Mins			LO	CATION OF	WELL		
0, W	Vater level 25 Water level			Recovery		In diagram Indicate no	below show	distances o	of well from roa	ad and lot li	ne.
LSH 47	169 124 15 minutes	30 minutes 45	minutes 6	50 minutes			MILL	RIDGE	RO.		
If flowing give ra	feet / feet ate 38-41 Pump intake s	et at Wa	ter at end of tes	t Peet	=			······································	T		\bigcirc
Recommended	pump type Recommended	feet 43-45 Rec	commended	☐ Cloudy 46-49		ĺ	A		1		
	Deep pump setting	5 feet pun	np rate	3 gpm		1	185		1		
FINAL STATUS		d, insufficient supply	r ⁹ □ ∐nfinish	ed		. ,	10-		1		
² Observation Test hole	on well 6 Abandone 7 Abandone	d, poor quality d (Other)	¹⁰ ☐ Replace				▼		1		
1 ☐ Recharge	55-56					100	,		1		
Domestic 2 A Stock	⁶ ☐ Municipal		9 Not used			1	(1		
3 ☐ Irrigation 4 ☐ Industrial	⁷ ☐ Public sup ⁸ ☐ Cooling &	ply air conditioning				12	0		1		
	ONSTRUCTION 57		⁹ □ Driving			,	_				
I 3 ⊟ Rotary (re			Digging Other				MADAW	+SKA	RIVER]	L863	29
4 ☐ Rotary (air	r) 8 ☐ Jetting			***			- 11 0/ 144				
Name of Well Contra		NG LTD	Well Contractor	's Licence No.	Data source	56	Contracctor	379	59-62 Date receiv		63-68 80 107
Address P# /			A 160			1 inspection		nspector		<u> </u>	1 3 /
Name of Well Techni	ician		Well Technician		Remar	ks					
Signature of Technic	UNDERS ian/Contractor	5	7-05/ Submission date	e	Remar				,	_ •	c
Jay sa	undi		My Ho	97	2				CFS	506 (07/94) Fi	ont Form 9
Z - MIN	ISTER OF ENVIR	NMENT &	ENERGY	COPY							

(&) C	ntario	Ministry of the Environment	Well T		imber below)	Regulation 903 Ontari	Well R	
			A 0199	47	· ************************************	Acguiusen 555 Cmail		2 of 3
• For us	ns for Comple e in the Provin	ce of Ontario only. Th	is document is a perm	anent legal	document. Pl	ease retain for future refer	ence.	4h:- fa
 Questi 	ibns regarding d	ampleting this applicat	tion can be directed to	the Water V	structions and Vell Managen	l explanations are available on nent Coordinator at 416-23	on the back of 35-6203.	tnis tom.
All me Please	tre measurem print clearly in	this shall be reported blue or black ink only.	d to 1/10 th of a metre.	·		Ministry Use Only		
	150			T MUN	co	N	LOT	
	RE	NFREW		WENAR/	Braesi	DE 18	Black/Table	
11.		RIOGE RO		City/Town/Vill	FLORE	Site/Compartment		
GPS Readii	8 3	Zone Easting 18 386,973	5028421	Unit Make/Mo		of Operation: Undifferentia		aged
Log of Ov		Bedrock Materials	(see instructions) Other Materials		Genera	I Description	Depth	Metres
BROW	<u> </u>		•		OEN	SE	From	13.7/
BRUW		STONE					13.71	18.59
GREY	GRA	NITE					18.59	28.98
						·		
	4							
						·	Ę	
	e Diameter Metres Diame	tor	Construction Rec	1		Test of We Pumping test method Draw		Recovery
Depth From	To Centime	tres diam Mat	wall thickness	Depth From	Metres To		Vater Level Time Metres min	Water Level
0	14.78 24.7	centimetres	centimetres	110111	10	Pump intake set at - Static (metres)	11.58	
14.18	28.95 15:		Fibreglass	. 45	11179	Pumping rate - 1 (litres/min) 45.5	2~3/ 1	11,74
	ater Record	Galvania	Concrete . 48	0+.43	14.78	Duration of pumping 2	2.34 2	11.79
Water found at Metre	s Kind of Wate		Fibreglass Concrete			IIL	2.34 3	11.79
Gas Other:	Salty Mine		zed Fibreglass			Recommended pump 4	2.37 4	11.76
Gas	Fresh Sulp	hur Blastic	Concrete	•		Shallow Deep Recommended pump 5	2.37 5	11.76
Other: -	Fresh Sulp	Galvani	Screen			depth 7, 4 Thetres Recommended pump 10	12.40 10	11.73
Gas Other:	Salty Mine	orals Outside Steel	Fibreglass Slot No.			rate. (litres/min) 15	2,40 15 2,40 20	11.73
	well yield, water w	as Plastic	Concrete zed			(litres/min) 25 /	2, 43 25 2, 42 30	11.70
Other, s			No Casing or Sci			ued, give reasolt.	2.46 40 2.49 50	11.67
Chlorinated	XYes No	Lø pen h	ole	14.78	28.95	60	2,52 60	11.64
Depth set at		d Sealing Record nd type (bentonite slurry, neat		hbandonment me Placed	In diagram belo	Location of Well w show distances of well from roa		uilding
From	To Iviaterial a	TONITE SLUI	(CGD	ic metres)	Indicate north by			1/1
						18m		
						11		
Cable To	φi □R	Method of Construction (air)		Digging		INSM	`	
Rotary (c		r percussion] Jetting [] Driving —	Other				
Domestic	: □In	Water Use	Public Supply . [Other				
Stock	<u> </u>	ommercial [Not used — Cooling & air conditioning		Audit No.	MILL RIDGE	Completed	MM DD
		Final Status of W	ell	doned, (Other)	Z	20170 Date Delivion	ered YYYY	<u> </u>
	tion well	oned, insufficient supply oned, poor quality	Dewatering Replacement well		package deliver	ed? Pes No	05	_ (3
		Contractor/Technician	Information Well Contractor's	Licence No.	Data Source	Ministry Use Only Contracto	A 0 P	0
1 T. S	AUN OFRS dress (street name,		0 4879	- Self	Date Received		487	MM DD
RRH		SIDE ONT	Well Technician's	Licence No.	Remarks	MAR 2 9 KUUD	ord Number	1 1
1 50	WOERS Technician/Contrac	TROY	Date Submitted)				
	Nou Jaune		0.5	Well Ow	ner's Conv 🗆	Cette formule	e est disponible	e en français
0300E (09/0]	Contractors	20p)		·		•	-



The Ontario Water Resources Act WATER WELL RECORD

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Mark correct box with a checkmark, where applicable.

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County or District	UFREW		Township	/Borough/City	//Town/Villag	je		Con	block tract	survey, et		25-27
			Address Op:			000	DAIT 1	175 3G	Date	pleted 23	2 0	<u>^</u> グラ
21	ս ۲	one Easting		Northing	11 404 121	· · · · · · · · · · · · · · · · · · ·		RC Basin C		day	mo iii	nth year iv
1 2	M 10	LOG OF OVE		N AND RE	DROCK M	ATFRIALS		o 31				47
General colour	Most common mate			ner materials	·· - •· <u>-</u> ·			neral descript	ion			th – feet
BROWN	CLAY					FILL					rom	To
BROWN	CLAY					PENSE						185
BROWN	CLAY				., .	SOFT					8/2	435
GREY	CLAY							OFT		4	132	ムフ き
GREY	SAND		GR	AVEL	····						57\$	389
BROWN	LIMESTONE							-		6	382	88
GREY	GRANITE									لے	88	95
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31 , ,			· · · · · · · · · · · · · · · · · · ·									<u>-</u>
32												
	ER RECORD	51 C	ASING &	OPEN HOL	E RECOR	D		of opening		65 ameter 34-38	Length	75 80 39-40
Water found at - feet	Kind of water	Inside diam Mainches	aterial	Wall thickness inches	Depth From	- feet To	Nater (Slot			inches		feet
73岁	Fresh 3 Sulphur 14 Salty 6 Gas		iteel ¹² Salvanized	122	+2	13-16	S Mater	rial and type		Depth	at top of	screen 30
15-18 1 <u> </u>	Fresh ³ Sulphur ¹⁹ Salty ₆ Gas	107 14 D 0	Concrete Open hole Plastic	0100	0	//2	61	DI LICA	CINC & CE	EALING RE	COBD	feet
20-23 1 🗆	Fresh ³ D Sulphur ²⁴		teel 19 Salvanized		711	20-23	Depth set	Annular s			ndonmer	
31 38	Fresh ³ Gas Sulphur ²⁹		oncrete Open hole Plastic		// Z	73	From 13	To		ype (Cement g		
30-33	Salty 6 Minerals 60 Gas	2 🔁 G	teel ²⁶ alvanized	k - Kerny		27-30	- 4 7 18-21	5 22		ment 9		7
1	Fresh 3 Sulphur 34 Sulphur 54 Sulphur 55 Sulphur 5	· · · · · · · · · · · · · · · · · · ·	Concrete Open hole Plastic				26-29	30-33 80	Clay	Den	My.	
71 Pumping test me	ethod 10 Pumping rate	D Durat	tion of pumpin	g 17-18			- · · · · · · · · · · · · · · · · · · ·	OCATION	OF WELL			A
Static level Wi	ater level d of pumping Water levels		ing 2	Recovery		In diagran		ow distance			d lot line	e. //
15 47 2 19-21	20.04	11029-31	inutes 6	io minutes		majodio 11	orar by arre	J				170
If flowing give rat	17 feet Det	77 feet 4	r at end of test	4/ <u>L</u> feet				MILL	- R1064	E RO.		
Recommended p	GPM 94	feet	Clear Immended				1	A	1			7
	pump setting	pump feet		6 _{GPM}			1	IHD	•			
FINAL STATUS	OF WELL 54						•	V	1			
 Water supp Observation 	oly 5 🗌 Abandoned, n well 6 🗎 Abandoned,		☐ Unfinishe				, 1	•	‡			
3 ☐ Test hole 4 ☐ Recharge w	 7 ☐ Abandoned vell 8 ☐ Dewatering 	(Ou ioi)					1	1	1			
WATER USE 1 Domestic	55-56 5 Commercial	9	☐ Not used					10'	1			
² ☐ Stock ³ ☐ Irrigation ⁴ ☐ Industrial	6 ☐ Municipal 7 ☐ Public suppl 8 ☐ Cooling & air) y	☐ Other				i		1			
	<u> </u>	y							! 			:
METHOD OF CC 1 ☐ Cable tool 2 ☐ Rotary (cor			☐ Driving☐ Digging				MAN	A WASK	A	_	_	
□ Rotary (rev □ Rotary (air)	rerse) 7 🗌 Diamond	11	☐ Other				ノーいり	RIVER	> 7	18	632	24
Name of Well Contract	ctor	l Wa	ell Contractor's	s Licence No.	Data		58 Contracct	Or	59-62 Da	te received		63-68 80
T. SAUNK		G LTD	4/87	19	Source	e 	4	879	Ua	OCT ()	2 199	
	BRAESIDE, O	NT. KO	A 160)	Date of	of inspection		Inspector				
Name of Well Technic	AUNOERS	We	ell Technician's	s Licence No.	Rema	rks						
Signature of Technicia	an/Contractor		bmission date		MINIS					r. 5 3		
May sa	STER OF ENVIRO						<u> </u>				7/94) From	nt Form 9

ntario	1. PRINT ONLY IN	SPACES PROVIDED RECT BOX WHERE APPLICAB	ILE 11	1550	3355-{	R	MUNICIP 55.02	2 CON.	N	22 23
UNTY OR STREET	2. CHECK A CORP	TOWNSHIP, BEROUGH	I, CITY, LOW BEAUTY	3	9	CON. B	VI	II.	$\langle \langle \rangle \rangle$	00
			7B	0.		0		DAY 2	1	48-53 YR. Z
		ng L	7.920	14 O	13 PR 100 3 0:01	, RG	BASIN CODE		111) v
2	M 10 12	OG OF OVERBUR	DEN AND BEI	DROCK M	ATERIALS	(SEE INS	STRUCTIONS)			
ENERAL COLOUR	MOST COMMON MATERIAL		R MATERIALS				DESCRIPTION		DEPT FROM	H - FEET
Dru	Clay								0'	68
,. d,.	Limestone				<u></u>				68'	160
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31) 106	8205 110/	60215 L		سا لسا	444	إلبل				
32	14 15 21	1 3.	2	43		SIZE(S	of OPENING	31-33 DIAME	ETER 34-38	75 LENGTH
WATER FOUND	ATER RECORD	INSIDE	G & OPEN HO	DEPTH -	FEET	C MATER	NO)		INCHES	
	FRESH 3 SULPHUR 14	INCHES STEEL	INCHES	FROM	10	SC	TIAL AND THE		OF SCREEN	FEE
15-18 1	FRESH 3 SULPHUR 19 SALTY 4 MINERAL	2 GALVA 3 CONCE 4 OPEN	RETE 188	0	0068	61		NG & SEA		
20-23 1	FRESH 3 SULPHUR 24	17-18 1 _ STEEL 2 _ GALVA	ANIZED	1571	20-23	FROM	SET AT - FEET	MATERIAL AN	D TYPE LEAD	EMENT GROUT, PACKER, ETC
25-28 1		3 Drogner	REIL		1 6 16 1 1	10	13 14-17			
1 •	FRESH 3 SULPHUR ZS	24-25 1 STEEL	HOLE 26	680	27-30	10	-13 14-17 -21 22-25			
30-33 1	SALTY 4 MINERAL FRESH 3 SULPHUR 34	24-25 1 STEEL 2 GALVA 3 CONC	ANIZED RETE	68	27-30		-21 22-25	80		
30-33 1	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL	24-25 1 STEEL 2 GALVA 3 CONCI	26 ANIZED RETE HOLE		27-30	18	-21 22-25		- L	
30-33 1 2 71 PUMPING TEST M	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL ETHOD 10 PUMPING R 2 St BAILER WATER LEVEL 25	24-25 1 STEEL 2 GALVA 3 CONCI 4 OPEN ATE	ANIZED RETE HOLE	17-18 MINS	IN DIAGE	18 26-	22-25 29 30-33 O C ATIO N	OF WEL		D AND
30-33 1 2 71 CUMPING TEST M 1 PUMP STATIC LEVEL LEVEL 19	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL SETHOD 10 PUMPING R 2 M BAILER WATER LEVEL 25 END OF PUMPING PUMPING WATEL 21 22-24 IS MINUT	24-25 1 STEEL 2 GALVA 3 CONCI 4 OPEN ATE	ANIZED RETE HOLE IS-16 HOURS PUMPING PUMPING PUMPING PUMPI	17-18		18 26-	22 22-25 29 30-33	OF WEL		D AND
71 PUMPING TEST M 1 PUMP STATIC LEVEL 19.	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL IETHOD 10 PUMPING R 2 M BAILER WATER LEVEL END OF PUMPING PUMPING 21 22-24 IS MINUT () 50	24-25 1 STEEL 2 GALVA 3 CONCI 4 OPEN ATE	ANIZED RETE HOLE 15-16 HOURS 1 PUMPING 2 RECOVERY	17-18	IN DIAGE	18 26-	22-25 29 30-33 O C ATIO N	OF WEL		D AND
71 FUNPING TEST M 1 PUMP STATIC LEVEL 19.	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL SETHOD 10 PUMPING R 2 M BAILER WATER LEVEL 25 END OF PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPING PUMPINTA 2 S S S S S S S S S S S S S S S S S S	24-25 STEEL	ANIZED RETE HOLE 15-16 HOURS 1 PUMPING 2 RECOVERY MINUTES 50 32-34 FEET RATEND OF TEST	17-18 MINS UTES 3 35-37 FEET 42	IN DIAGE	18 26-	22-25 29 30-33 O C ATIO N	OF WEL		D AND
TO STATIC LEVEL 19 1 FLOWING TEST M 1 PUMP STATIC LEVEL 19 19 15 17 18 19 18 19 19 19 19 19 19 19	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL SETHOD 10 PUMPING R 2 M BAILER WATER LEVEL 25 END OF PUMPING PUMPING R 221 22-24 IS MINUT 38-41 PUMP INTA	24-25 STEEL	ANIZED RETE HOLE IS-16 HOURS PUMPING 2 PRECOVERY MINUTES 50 32-34 FEET R AT END OF TEST CLEAR 2 CL	17-18 MINS UTES 35-37 FEET	IN DIAGE	18 26-	22-25 29 30-33 O C ATIO N	OF WEL		D AND
TO STATIC LEVEL STATIC LEVEL 19. IF FLOWING. GIVE RATE RECOMMENDED IN SHALLE 50-53	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL IETHOD 10 PUMPING R 2 M BAILER WATER LEVEL 25 WATER FUMPING P 121 22-24 IS MINUT 38-41 PUMPINTA FRUMP TYPE OW DEEP RECOMMEN PUMP SETTING	24-25 STEEL	ANIZED RETE HOLE ION OF PUMPING 1 PUMPING 2 RECOVERY MINUTES 50 32-34 FEET R AT END OF TEST CLEAR 2 CL. MENDED NG	17-18 MINS 35-37 FEET 4Z OUDY 46-49 GPM	IN DIAGE	L RAM BELG	OCATION OW SHOW DISTANTICATE NORTH BY	OF WEL		D AND
TO STATIC LEVEL STATIC LEVEL 19. FERCOMMENDED I SHALL 50-53 FINAL STATUS	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL SALTY 4 MINERAL SALTY 4 MINERAL SALTY 5 SALTY 5 SALTY 5 SALTY 6 SALTY 6 SALTY 6 SALTY 7 SALTY 6 SALTY 7 SALTY 6 SALTY 7 SALTY 6 SALTY 8 SALTY 6 SALT	24-25 STEEL	ANIZED RETE HOLE 19-16	17-18 MINS 35-37 FEET 4Z OUDY 46-49 GPM	IN DIAGI	L RAM BELG	22-25 29 30-33 O C ATIO N	OF WEL		D AND
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TO STATIC LEVEL STATIC LEVEL 19 15 16 17 17 1	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL	24-25 STEEL	ANIZED RETE HOLE ION OF PUMPING 1 PUMPING 2 RECOVERY MINUTES 50 32-34 SO RATEND OF TEST CLEAR 2 CL MMENDED ED, INSUFFICIENT SU ED, POOR QUALITY ED	17-18 MINS 35-37 FEET 4Z OUDY 46-49 GPM	IN DIAGI	L RAM BELG	OCATION OW SHOW DISTANTICATE NORTH BY	OF WEL	FROM ROAL	NPP10P
TO STATIC LEVEL STATIC LEVEL 19 15 16 17 17 1	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL SALTY 4 MINERAL SALTY 4 MINERAL SALTY 4 MINERAL SALTY 5 SULPHUR 34 SALTY 4 MINERAL SALTY 4 MATER	Z4-25 STEEL GALVA GA	ANIZED RETE HOLE ION OF PUMPING 1 PUMPING 2 RECOVERY MINUTES 50 32-34 SO RATEND OF TEST CLEAR 2 CL MMENDED ED, INSUFFICIENT SU ED, POOR QUALITY ED	17-18 MINS 35-37 FEET 4Z OUDY 46-49 GPM	IN DIAGI	L RAM BELG	OCATION OW SHOW DISTANTICATE NORTH BY	OF WEL		NPPIOR
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JO-33 1 2 71 1 PUMPING TEST M 1 PUMP STATIC LEVEL 19 15 OF F GIVE RATE RECOMMENDED I STATUS OF WELL WATER USE METHOD OF DRILLING	SALTY 4 MINERAL FRESH 3 SULPHUR 34 SALTY 4 MINERAL SALTY 4 MINERAL SALTY 4 MINERAL SALTY 5 MINERAL SALTY 5 MINERAL SALTY 6 MINERA SALTY 6 MINERAL SALTY 6 MINERAL SALTY 6 MINERAL S	24-25 STEEL	ANIZED RETE HOLE ION OF PUMPING 15-16 HOURS 1 PUMPING 2 RECOVERY MINUTES SO 32-34 FEET R AT END OF TEST CLEAR 2 CLIMENDED MG ED, INSUFFICIENT SU ED, POOR QUALITY ED ORING OTHER OTH OTHER OTHE	17-18 MINS UTES 35-37 FEET 42 OUDY 46-49 GPM IPPLY DRII AND ORI	IN DIAGILOT LIN	RAM BELCE IND	OCATION OW SHOW DISTANTICATE NORTH BY OCONTRACTOR STANTICATE NORTH BY	OF WELL NCES OF WELL (ARROWLE) ARROWLE ARROWL	FROM ROAL	A ·3
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Attachment B Survey Questionnaires

QUESTIONNAIRE

Kyle Dai	ala a	Lastas	Email: B	Zone 187 aatz 155	N= 507	-4111 E=	033547z
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613-293-8	585		Date: 30	24.09.16	þ		
,, ,	- 0		Time: 5	er: Nick			
<u> </u>			/ IIItai viewe	or N.Ca	weston		
		PROPE	RTY INFOR	MATION			-
Name of Owner: (< yle & 1	Rachel Is	3 raatz				
Address: /232	Mill Rida	e Road	Amari	or 01)			
	V		- Person	i iez i ()			
Mailing Address if	Different:						-

Phone No. 613 - 3	71./000	Cell			No. of O	ccupants; <	
013-0	0455	Occupan	t (if other th	A CONTRACTOR OF THE PARTY OF TH	I TOOLS OF THE REAL PROPERTY.	THE PROPERTY OF THE PARTY OF TH)
Name:							
How Long at Prese	ent Address:	Phone No.	. (Home)		Phone N	lo. (Work)	
				7,5 1 3,250			
	✓ Single	Family [Commercia	al 🗆 N	lultiple Unit	Institu	utional
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Type of Dwelling	M Oingle						anona
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	✓ Yes	□ No					
Type of Business		1					
Type of Business		□ No					
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Type of Business Basement Type	Yes illed Well ressure groute ed by well? Depth: /33	W/ Dug ved? Sand/Gra	ATER SUPP Well Yes T:(5.55om	LY Mur No Age: 2.c	Un Kno	Depth of V	Other Vater:81.75
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WATER WELL AND SEWAGE DISPOSAL SYSTEM SURVEY QUESTIONNAIRE Reference No.: ____

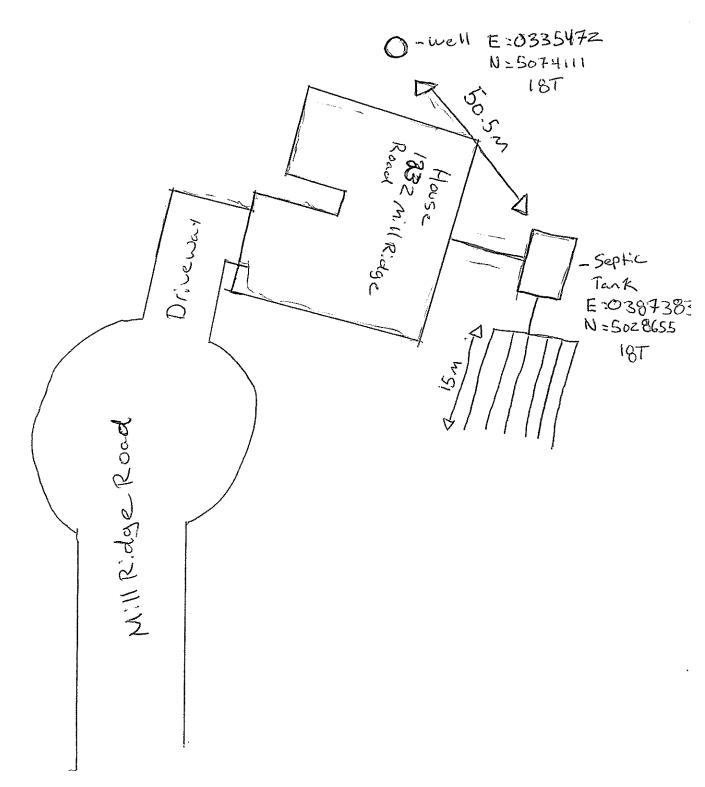
米 WATER QUALITY 来 ☑ Yes ☐ No Do you drink the water? If no, since when: Have you ever run out of water? ☐ Yes ☑ No Did you ever have your well deepened or cleaned, or a new well constructed? **□** No ☐ Yes If so, why? Quality: Taste ☐ Excellent ✓ Acceptable Poor Odour ☐ Acceptable Poor Colour Excellent ☐ Acceptable Poor Hardness Acceptable Poor Iron ☑ Excellent ☐ Acceptable Poor Gasoline ☑ Excellent Acceptable Poor Sulphur Smell Acceptable Poor Comments: Has your water quality been tested previously? ☐ Yes ☑ No bacteriological chemical analyses ☐ Other If yes, for what? How often? How often? How often? ATTACH COPY OF ANY PREVIOUS CHEMICAL AND/OR BACTERIOLOGICAL ANALYSIS RESULTS ON THE WELL WATER, IF APPLICABLE WATER QUANTITY 以 Does your well supply enough water for your use? ☑ Yes ☐ No If No, is this the case: ☐ All the time ☐ Some of the time Seasonally Other ☐ No ☑ Yes Use: Domestic No. of persons using water from well: No No ☐ Yes Livestock ☑ No ☐ Yes Lawn Watering Other Uses: Daily Usage (if known):

WATER WELL AND SEWAGE DISPOSAL SYSTEM SURVEY QUESTIONNAIRE

Reference No.:

Water Quality Field Observ		R SAMPLING	NFORMATIC	N			
Appearance	☑ clear		☐ cloudy	,			
Field Measured Parameter							
Temperature °C = 13.6	PH= 7.	6	Chlorine T	Chlorine Total =			
Conductivity us/cm = 8q0		TU 24.0	Chlorine F	Chlorine Free =			
Other Comments: Color							
Water Sample Collected:	□ No	Yes	If no, why?)			
Note: Collect Sample of	"untreated" w	ater only				1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	
Duplicate Water Sample C	ollected (10%	of Locations f	or Project QA/A	(C)	To.	Yes [] No	
Location where samples co	ollected	itchen e	Sink				
Sample Water By-Pass An					[3	Yes No	
Type of Samples Submitte	Ва	cteria	102	Chem			
	Venerala	ever extension		Was De			
Type of sewage system	-K-DEVVA	7	INFORMATIO		ПР	artially Raised Bed	
Septic Tank and Ingrou	nd Leaching B	-	ding Tank		Ot		
f Septic Tank and Leachin Sed:	g Does I sewer		discharge direc	tly to dite	ch or	☑ No ☐ Yes	
Number of Chambers	one		1wo	two unknown			
Septic Tank Location	Zone: 18T		Northing:50	28655	Eas	asting:0387383	
Гуре of Septic Tank:		☐ Steel	-	Concrete		☐ Other	
What is the Length of Distri	bution Pipe:	15 m					
f I-lolding Tank: What is	the Capacity?	The state of the s	was the last tin	ne the Ta	ank wa	s Pumped Out? Ne	
f Other, provide description	and commen	ts:				O TOTAL PROPERTY.	
What is the age of the sewa	age system?	1 year					
What is the Approximate Di	istance betwee	n the Well an	d the Sewage S	System?		50.5 m	
	by the Health	Unit or the MC	DE?	lo		Yes	
was the System Approved	Was the System Approved by the Health Unit or the MOE? Have there been any Problems with the Sewage System?					Lus	
		ewage Syster	m? 🖾 N	lo		☐ Yes	

property Sketch 1232 Mill Ridge Road



QUESTIONNAIRE

				C	oords: Zo	ne (8T	N=5028	543	E=0387345
							Yahoo.		
					<u>Vell Tag: ۵</u>				
					ate: 9-1				
					ime: <i>6.0</i> iterviewer				
					ILC: VICVVCI	· M . CO			
			PRO	OPERTY	INFORM	IATION			
Name of Owner:	Tony U	eil		ü					
Address: IZ3	o mill	Rido	e B	Road	Arnp	NOT E	N)		
Mailing Address	if Different:								
· · · · · · · · · · · · · · · · · · ·									
Phone No. 613	Phone No. 613 - 277 - 9673 Cell						No. of O	ccupan	ts: <u>5</u>
			Occu	pant (if o	other tha	n owner)		
Name:		- 2 - 1 1	<u> </u>	N.			15:	1 (1) (1	
How Long at Pre	esent Addres	s:2003	none	No. (Ho	me)		Phone N	۱٥. (Wo	rk)
Type of Dwelling	Sin	gle Fan	nily	☐ Co	mmercial		Multiple Uni	it [] Institutional
Type of Busines:	s								
Basement		es [□ No						
									
				WATE	R SUPPL				
Type 🔽	Drilled Well			Dug Well		Mu	ınicipal		☐ Other
Is the well casing	g pressure gr	outed?			Yes	☐ No	lunsu	æ	
No. of homes se	rved by well?	· I_							
Well: To	otal Depth: /2	011	Dian	neter: 6	4	Age: 2	.001	De	pth of Water:5 8
End of Rock			Sand	d/Gravel			Both		
Pump Type:	Subme	rsible] Jet		Piston		Other	
Type of Well Cas	sing: 🔽 At	ove gro	ound s	surface	☐ Burie	ed inside	a well pit	☐ Bur well pit	ied, but not in a
The accurate loc	ation of the v	vell is:			·		Known		Unknown
Do you have a co		DE Wat	er We	II Record	d?		☐ Yes		□ No
Treatment:	☑ Yes	□ No)						
Chlorination	Yes	☑ No							
Softener	☑ Yes	□ No)						
Filter	☐ Yes	☑ No)						
Other		*							
ATTACH A COP	Y OF WATE	R WEL	L RE	CORD, I	F POSSI	3LE	WELL REC	ORD N	0.

WATER WELL AND SEWAGE DISPOSAL SYSTEM SURVEY QUESTIONNAIRE Reference No.:

WATER QUALITY Yes | No Do you drink the water? If no, since when: Have you ever run out of water? No. ☐ Yes Did you ever have your well deepened or cleaned, or a new well constructed? ☐ Yes ∏ No If so, why? Quality: Taste Excellent ✓ Acceptable Poor Odour ☐ Excellent Acceptable Poor Colour ✓ Excellent Acceptable Poor Hardness ☐ Excellent Acceptable Acceptable Poor Iron ☐ Excellent Acceptable Poor Gasoline ✓ Excellent Acceptable Poor Sulphur Smell ✓ Excellent Acceptable Poor Comments: Has your water quality been tested previously? TV No ☐ Yes ☐ bacteriological ☐ chemical analyses ☐ Other if yes, for what? How often? How often? How often? ATTACH COPY OF ANY PREVIOUS CHEMICAL AND/OR BACTERIOLOGICAL ANALYSIS RESULTS ON THE WELL WATER, IF APPLICABLE WATER QUANTITY √Yes Does your well supply enough water for your use? ☐ No If No, is this the case: ☐ All the time ☐ Some of the time Seasonally ☐ Other ☐ No √Yes Use: Domestic No. of persons using water from well: 5 ☐ No N/No ☐ Yes Livestock Lawn Watering Other Uses: Daily Usage (if known):

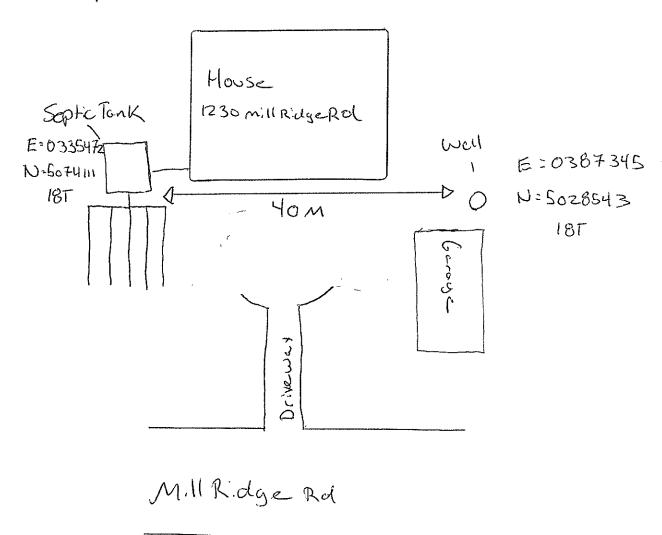
WATER WELL AND SEWAGE DISPOSAL SYSTEM SURVEY QUESTIONNAIRE

Reference No.:

Location where samples collected			ORMATION	MPLING I	WATER SA		
Field Measured Parameters: Temperature °C = 15.5 PH = 7. Z Chlorine Total = Ø Conductivity us/cm = Turbidity = 0.68 NTO Chlorine Free = Ø Other Comments: Colour = Zo pco Water Sample Collected: No Yes If no, why? Note: Collect Sample of "untreated" water only Duplicate Water Sample Collected (10% of Locations for Project QA/AC) Yes Sample Water By-Pass Any Treatment Unit Type of Samples Submitted for Analysis Bacteria SEWAGE SYSTEM INFORMATION Type of sewage system Septic Tank and Raised Bed Partially Rais Septic Tank and Leaching Bed Holding Tank Other If Septic Tank and Leaching Bed discharge directly to ditch or sewer? Number of Chambers one Northing: 5-74 11 Easting: 0.3 Type of Septic Tank: Steel Concrete Other What is the Length of Distribution Pipe: One Northing: 5-74 11 Easting: 0.3 Type of Septic Tank: What is the Capacity? When was the last time the Tank was Pumped If Other, provide description and comments: What is the Approximate Distance between the Well and the Sewage System? No Yes Have there been any Problems with the Sewage System? No Verification of Calibration Yes Turbidity Meter Used for Field Parameter ID # 0.10 Werification of Calibration Yes Turbidity Meter Used for Field Recording ID # 0.110 Werification of Calibration Yes						rvations	Water Quality Field Obse
Temperature °C = 15.5 PH = 7.2 Chlorine Total = Conductivity us/cm = Turbidity = 0.68 NTO Chlorine Free = Other Comments: Colour = ZOPCO Water Sample Collected:			cloudy		clear	₩	Appearance
Conductivity us/cm = Turbidity = 0.68 NTO Chlorine Free = Other Comments: Colour = ZOPCO Water Sample Collected:						ers:	Field Measured Paramete
Water Sample Collected: No Yes If no, why? Note: Collect Sample of "untreated" water only Duplicate Water Sample Collected (10% of Locations for Project QA/AC)		Þ	Chlorine Total = 🇳		1= 7.2	PH	Temperature °C = 15.5
Water Sample Collected: No Yes If no, why? Note: Collect Sample of "untreated" water only Duplicate Water Sample Collected (10% of Locations for Project QA/AC)		1	Chlorine Free = Ø	58 NTU	rbidity = 0.6	Tu	
Note: Collect Sample of "untreated" water only Duplicate Water Sample Collected (10% of Locations for Project QA/AC)							
Duplicate Water Sample Collected (10% of Locations for Project QA/AC)		Water Sample Collected: ☐ No ☐ Yes If no, why?					
Location where samples collected				only	ated" water	f "untre	Note: Collect Sample of
Sample Water By-Pass Any Treatment Unit Type of Samples Submitted for Analysis SEWAGE SYSTEM INFORMATION Type of sewage system Septic Tank and Raised Bed Partially Raised Septic Tank and Inground Leaching Bed Holding Tank Other If Septic Tank and Leaching Does Leaching bed discharge directly to ditch or sewer? Number of Chambers one Iwo unknown Septic Tank Location Zone: LOT Northing: 5074 (11) Easting: 03 Type of Septic Tank: Steel Concrete Other What is the Length of Distribution Pipe: Unknown If Holding Tank: What is the Capacity? When was the last time the Tank was Pumped If Other, provide description and comments: What is the age of the sewage system? ZOO What is the Approximate Distance between the Well and the Sewage System? Upon Was the System Approved by the Health Unit or the MOE? No Yes Please comment: Multimeter Used to Record Field Parameter ID # 0966 Verification of Calibration Yes Turbidity Meter Used for Field Recording ID # 0100 Verification of Calibration Yes]/No	☐ Yes ☑ No	oject QA/AC)	cations for	d (10% of Lo	Collecte	Duplicate Water Sample (
Sample Water By-Pass Any Treatment Unit Type of Samples Submitted for Analysis SEWAGE SYSTEM INFORMATION Type of sewage system Septic Tank and Raised Bed Partially Raised Sed: Septic Tank and Inground Leaching Bed Holding Tank Other If Septic Tank and Leaching Does Leaching bed discharge directly to ditch or sewer? Number of Chambers One Northing: 50 7-4 (11) Easting: 0.3 Type of Septic Tank: What is the Length of Distribution Pipe: What is the Length of Distribution Pipe: What is the age of the sewage system? What is the Approximate Distance between the Well and the Sewage System? 40 M Was the System Approved by the Health Unit or the MOE? No Yes Multimeter Used to Record Field Parameter ID # 0966 Verification of Calibration Yes Type of Samples Submitted for Analysis Sewage System? Verification of Calibration Yes				ebib	1 Hos	collected	Location where samples
SEWAGE SYSTEM INFORMATION Type of sewage system] No	Yes No	√Yes			ny Trea	Sample Water By-Pass A
Type of sewage system		Ćhemical	a Chemical	Bact	nalysis	ed for A	Type of Samples Submitte
Type of sewage system			OPMATION	VCTEM IN	SEMAGES		
Septic Tank and Inground Leaching Bed	Raised Bed	Partially Raised Bed			3EWAGE 3		Type of sewage system
Bed: sewer? Number of Chambers □ one □ two □ unknown Septic Tank Location Zone: l &T Northing: 50 + 4 111 Easting: 03 Type of Septic Tank: □ Steel □ Concrete □ Other What is the Length of Distribution Pipe: □ KNOWN If Holding Tank: □ What is the Capacity? □ When was the last time the Tank was Pumped If Other, provide description and comments: What is the age of the sewage system? □ What is the Approximate Distance between the Well and the Sewage System? ↓ No Was the System Approved by the Health Unit or the MOE? □ No Was there been any Problems with the Sewage System? □ No Please comment: Multimeter Used to Record Field Parameter □ # ○ 966 □ Verification of Calibration □ Ye Turbidity Meter Used for Field Recording □ # ○ 110 □ Verification of Calibration □ Ye	. ,			Holdii	ching Bed	und Lea	Septic Tank and Ingro
Septic Tank Location Zone: 18T Northing: 507411 Easting: 03 Type of Septic Tank:	☐ Yes	h or No Yes	harge directly to ditch or	hing bed di		ng	
Type of Septic Tank:	vn	unknown	two unkr		€	on-	Number of Chambers
Type of Septic Tank:	335472	Easting: 0335472	rthing: 5074 (11 Easting:	1	18T	Zone:	Septic Tank Location
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What is the age of the sewage system?	ed Out?	nk was Pumped Out?	······ · · · · · · · · · · · · · · · ·			is the Ca	If Holding Tank: What i
What is the Approximate Distance between the Well and the Sewage System? ♣○ Was the System Approved by the Health Unit or the MOE? No Yes Have there been any Problems with the Sewage System? No Yes Please comment: Multimeter Used to Record Field Parameter ID # ○ 966 Verification of Calibration ✓ Yes Turbidity Meter Used for Field Recording ID # ○ 110 Verification of Calibration ✓ Yes			The state of the s		omments:	on and o	If Other, provide description
What is the Approximate Distance between the Well and the Sewage System? 中心 Was the System Approved by the Health Unit or the MOE? No Yes Have there been any Problems with the Sewage System? No Yes Please comment: Multimeter Used to Record Field Parameter ID # 0966 Verification of Calibration Yes Turbidity Meter Used for Field Recording ID # 310 Verification of Calibration Yes			The second secon	50 l	stem? 7	wage sy	What is the age of the sev
Have there been any Problems with the Sewage System? Please comment: Multimeter Used to Record Field Parameter ID # 0966 Verification of Calibration Verification of Calibration Verification of Calibration Verification of Calibration Verification Veri		tom	e Sewage System? யுடுமா			Distance	What is the Approximate I
Please comment: Multimeter Used to Record Field Parameter ID # 0966 Verification of Calibration Verification of Calibration Verification of Calibration Verification of Calibration Verification Verifi	es	☑ Yes	□ No □⁄	or the MOE	Health Unit	d by the	Was the System Approve
Multimeter Used to Record Field Parameter ID # ○966 Verification of Calibration ✓ Ye Turbidity Meter Used for Field Recording ID # ○110 Verification of Calibration ✓ Ye	es	√Yes	□ No □	ge System	ith the Sewag	olems w	Have there been any Prob
Turbidity Meter Used for Field Recording ID# ONO Verification of Calibration Verification of Calibration			The street of th				Please comment:
Turbidity Meter Used for Field Recording ID# ONO Verification of Calibration Verification of Calibration		* X			1 112001		
Technician Signature Date: 09 - 11 - 24		-11-24	Date: 09 - 11 - 7			<u> </u>	Technician Signature <u></u>
Colour of water photometer ID# 0961 -calibrated			•	1	si (, ,	da cofinal

Free & Total Chlorine Photometer ID# 0940 - calibrated

property Sketch 1230 mill Ridge Roach



Attachment C Laboratory Results



Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Nick Weston

PO#:

Invoice to: Jp2q Consultants Inc. (Pembroke)

 Report Number:
 3010897

 Date Submitted:
 2024-09-12

 Date Reported:
 2024-09-19

Project: 24-7053A 1232 MIII Ridge Road

COC #: 916627

Dear Nick Weston:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Page 1 of 8

Report Comments:

Emma-Dawn Ferguson 2024.09.19 13:51:53 -04'00'

APPROVAL:

Emma-Dawn Ferguson, Chemist

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

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Eurofins_multisample(L)44.rpt



Client: Jp2g Consultants Inc.

12 International Dr. Pembroke, ON

K8A 6W5

Attention: Mr. Nick Weston

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

Report Number: 3010897 Date Submitted: 2024-09-12 Date Reported: 2024-09-19

Project: 24-7053A 1232 MIII Ridge Road

COC #: 916627

				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1742565 GW 2024-09-11 1232
Group	Analyte	MRL	Units	Guideline	
Anions	Cl	1	mg/L	AO 250	39
	F	0.10	mg/L	MAC 1.5	1.00
	N-NO2	0.10	mg/L	MAC 1.0	<0.10
	N-NO3	0.10	mg/L	MAC 10.0	<0.10
	SO4	1	mg/L	AO 500	29
General Chemistry	Alkalinity as CaCO3	5	mg/L	OG 30-500	351
	Colour (Apparent)	2	TCU	AO 5	<2
	Conductivity	5	uS/cm		780
	рН	1.00		6.5-8.5	7.84
	Phenols	0.001	mg/L		<0.001
	S2-	0.01	mg/L	AO 0.05	<0.01
	Tannin & Lignin	0.1	mg/L		0.1
	TDS (COND - CALC)	1	mg/L	AO 500	507*
	Turbidity	0.1	NTU	AO 5	<0.1
Hardness	Hardness as CaCO3	1	mg/L	OG 80-100	300*
Indices/Calc	Ion Balance	0.01			1.00
Metals	Ca	1	mg/L		56
	Fe	0.03	mg/L	AO 0.3	<0.03
	K	1	mg/L		6
	Mg	1	mg/L		39
	Mn	0.01	mg/L	AO 0.05	<0.01
	Na	1	mg/L	AO 200	61
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0
	Faecal Coliforms	0	ct/100mL		0
	Faecal Streptococcus	0	ct/100mL		0

Guideline = ODWSOG

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

^{* =} Guideline Exceedence



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				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1742565 GW 2024-09-11 1232
Group	Analyte	MRL	Units	Guideline	
Microbiology	Heterotrophic Plate Count	0	ct/1mL		28
	Total Coliforms	0	ct/100mL	MAC 0	0
Nutrients	N-NH3	0.020	mg/L		0.029
	Total Kjeldahl Nitrogen	0.100	mg/L		<0.100
Subcontract-Inorg	DOC	0.5	mg/L	AO 5	1.1

Guideline = ODWSOG

* = Guideline Exceedence

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

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Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Nick Weston

PO#:

Invoice to: Jp2q Consultants Inc. (Pembroke)

 Report Number:
 3010897

 Date Submitted:
 2024-09-12

 Date Reported:
 2024-09-19

Project: 24-7053A 1232 MIII Ridge Road

COC #: 916627

Dear Nick Weston:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Page 1 of 8

Report Comments:

Emma-Dawn Ferguson 2024.09.19 13:51:53 -04'00'

APPROVAL:

Emma-Dawn Ferguson, Chemist

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Eurofins_multisample(L)44.rpt



Client: Jp2g Consultants Inc.

12 International Dr. Pembroke, ON

K8A 6W5

Attention: Mr. Nick Weston

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

Report Number: 3010897 Date Submitted: 2024-09-12 Date Reported: 2024-09-19

Project: 24-7053A 1232 MIII Ridge Road

COC #: 916627

Group	Analyte	MRL	Units	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline	1742566 GW 2024-09-11 1230
Anions	Cl	1	mg/L	AO 250	31
Allions	F.	0.10	mg/L	MAC 1.5	0.36
	N-NO2	0.10	mg/L	MAC 1.0	<0.10
	N-NO3	0.10	mg/L	MAC 10.0	0.18
	SO4	1	mg/L	AO 500	16
General Chemistry	Alkalinity as CaCO3	5	mg/L	OG 30-500	411
Control Charmon y	Colour (Apparent)	2	TCU	AO 5	3
	Conductivity	5	uS/cm	7.0 0	810
	pH	1.00	5.575	6.5-8.5	7.79
	Phenols	0.001	mg/L		<0.001
	S2-	0.01	mg/L	AO 0.05	<0.01
	Tannin & Lignin	0.1	mg/L		0.2
	TDS (COND - CALC)	1	mg/L	AO 500	526*
	Turbidity	0.1	NTU	AO 5	0.6
Hardness	Hardness as CaCO3	1	mg/L	OG 80-100	421*
Indices/Calc	Ion Balance	0.01			1.00
Metals	Ca	1	mg/L		86
	Fe	0.03	mg/L	AO 0.3	0.11
	K	1	mg/L		6
	Mg	1	mg/L		50
	Mn	0.01	mg/L	AO 0.05	0.02
	Na	1	mg/L	AO 200	20
Microbiology	Escherichia Coli	0	ct/100mL	MAC 0	0
	Faecal Coliforms	0	ct/100mL		0
	Faecal Streptococcus	0	ct/100mL		0

Guideline = ODWSOG

Results relate only to the parameters tested on the samples submitted. Methods references and/or additional QA/QC information available on request.

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				Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1742566 GW 2024-09-11 1230
Group	Analyte	MRL	Units	Guideline	
Microbiology	Heterotrophic Plate Count	0	ct/1mL		13
	Total Coliforms	0	ct/100mL	MAC 0	0
Nutrients	N-NH3	0.020	mg/L		<0.020
	Total Kjeldahl Nitrogen	0.100	mg/L		0.133
Subcontract-Inorg	DOC	0.5	mg/L	AO 5	1.3

Guideline = ODWSOG

* = Guideline Exceedence

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Attachment D
Langelier And Ryznar Calculations

Langelier and Ryznar Calculations Hydrogeological Assessment LRL File: 24-6311

	Sampled Wells		
Sample	1232 Mill Ridge Rd	1230 Mill Ridge Rd	
Analyzed Parameters			
TDS (mg/L)	507	526	
Hardness(mg/L)	300	421	
alkalinity(mg/L)	351	411	
pH (pH units)	7.6	7.2	
Temperature °C	20	20	
Where A= (Log10(TDS)-1)/10	0.171	0.172	
B= (-13.12*Log10(T°C+273)+34.5	2.185	2.185	
C= Log10(Hardness)-0.4	2.077	2.224	
D= Log10(Alkalinity)	2.545	2.614	
pHs=	7.033	6.819	
LSI=	0.567	0.381	
RI=	6.466	6.437	

Langelier

LSI = pH - pHs pHs = (9.3 +A+B) - (C+D)

Ryznar

RI=2pHs-pH

Ryznar	Langelier	
4.0-5.0 Heavy Scale	-2.0 to less than -0.5	Serious Corrosion
5.0-6.0 Light Scale	-0.5 to less than 0.0	Slightly corrosive but non-scale forming
6.0-7.0 Light Scale or Cor	rosion 0.0	Balanced but pitting corrosion possible
7.0-7.5 Corrosion Signification	ant 0.0 to less than 0.5	Slight scale forming and corrosive
7.5-9.0 Heavy Corrosion	0.5 to less than 2.0	Scale forming but non-corrosive
9.0 + Corrosion is Intole	rable	

Attachment E Nitrate Dilution Calculation

NITRATE DILUTIO	N FOR SE	PTIC SYSTE	M DESIGN		
Climate Data					
Precipitation	795.50	mm/year	Climate data trans	ferred from	
Evapotranspiration	556.48	mm/year	Evapotranspiration	n and Available	
Potential Infiltration	239.02	mm/year	Moisture Spreads	Moisture Spreadsheet	
Site Hydrology					
Site Area	9000.0	m ²			
Infiltration Reduction Factor	0.8		Table Entry	Manual Entry	
- Topography Component	Flat Land, Savg < 0.	6m/km	0.3		
- Soil Component	Open Sandy Loam		0.4		
- Cover Component	Cultivated Lands		0.1		
Net Potential Infiltration	0.19	m/year			
Hydraulics and Chemistry Background Nitrate Concentration Rainfall Infiltration	0.00	mg/L L/year	"	on Potential of the	
Background Nitrate Concentration Rainfall Infiltration	0.00 1,720,938	mg/L L/year	Background Dilusi	on Potential of the	
Natural Nitrate Loading	0.0	mg/year	Entire Site		
Effluent Nitrate Concentration	40.0	mg/L	<u> </u>		
Emdent Nitrate Concentration	1000	L/day/system	$\overline{}$		
Volume of Wastewater	365,000	L/year/system	Loading from One	Septic System	
Septic System Nitrate Loading	14,600,000	mg/year/system			
, ,	, ,	<u> </u>			
Calculation Method	Calculate the conce	entration at the propert	ty edge		
Max. allowable nitrate loading at		7.00 mg/L	Maximum allowah	ole number of septic	
property boundary		7.00 mg/ L	systems at the site	•	
Number of Septic Systems		1	concentration at t		
Total Nitrate Loading from all		14,600,000	boundary with a k		
onsite Septic Systems		mg/L	septic systems		
Max. Number of Septic Systems					

Evapotranspiration and Available Moisture Calculations

			Thornthwaite Potential Evapotranspiration		
Month	Monthly Total Precipitation (mm)	Monthly Mean Temperature (°C)	Monthly Heat Index, I _i	Potential Evapotranspiration _{i,o} , PET _{i,o} (mm)	Potential Evapotranspiration, PET (mm)
January	55.5	-12.1	0.00	0.00	0.00
February	48.8	-9.9	0.00	0.00	0.00
March	51.9	-3.7	0.00	0.00	0.00
April	69.8	5.3	1.09	26.34	29.50
May	75.4	11.9	3.72	59.82	74.18
June	70.7	16.8	6.26	84.88	110.77
July	78.8	19.7	7.97	99.76	127.69
August	82.3	18.4	7.19	93.08	109.84
September	72.2	13.4	4.45	67.48	70.85
October	71.0	7.2	1.74	35.94	32.88
November	66.0	0.2	0.01	0.95	0.77
December	53.1	-7.8	0.00	0.00	0.00
Total Annual (mm):	795.5				556.48
Total Av. Moisture (mm):	239.0				

^{**}Inputs in blue



TOWNSHIP OF McNAB/BRAESIDE COMMITTEE OF ADJUSTMENT

McNab/Braeside NOTICE OF HEARING AND REQUEST FOR COMMENTS

To: CAO/	Clerk		Date: November 22, 2024
Place:	McNab/Braeside Municipal Office 2473 Russett Drive, Arnprior	File:	Minor Variance Application A-6/24
Hearing Date:	Tuesday, December 10, 2024	Owner/Agent:	Kyle and Rachel Braatz (Owners) Samuel Laplante (Agent)
Time:	4:00 p.m.	Property Location:	1232 Mill Ridge Road Lot 22, Plan No. 571
Adjustmen requiremer	n A-6/24 has been received and will be t on the above noted date. So that the ap nts of The Planning Act, the Committee rec eturned to the Committee.	pplication can be propuests that the inform	perly considered in accordance with the
		<u>r</u>	moore@countyofrenfrew.on.ca
			Chief Building Official
Ē			
1			
		-	Building Inspector

	IC WORK COMMENTS	Yes	No	N/A
(a) A	are the following services available to this land? Municipal Water Sanitary Sewers Electricity Garbage Collection			
(b) E	Does the subject lot have <u>direct</u> access to a public road naintained by the Municipality?	ď		
(c) If	direct access is to a municipal public road:			
(i (i (i	created because of limited sight lines, curves or grades?		NO N	
		Min	Tr	
FIRE (DEPARTMENT COMMENTS:	Direc	tor of P	ublic Works
FIRE (DEPARTMENT COMMENTS:	Direc	tor of P	ublic

Fire Chief

a) Does Coun	cil recommend minor variand		Yes	No □
(i) If not	, outline reasons why.	218. 20.20.	•	
-				
) Should the	e minor variance be granted,	what conditions, if any, wo	uld Council wish to s	see appli
no	additiona	1, other +	tran u	sha
the	Townshi	p CBO ho	is subm	ri Hec
10				
.1				
		V) · 1	0	
Dec.	3,0024.	Bindse	y Bee	
Date		CAO/Cler	k /	

Building Department Comments:

The current on-site sewage system is undersized to service both the proposed addition and the existing residence. A new design for the on-site sewage system has not been submitted. Due to the proximity to water and the size of the proposed residence, the building department will require an engineered design for the on-site sewage system. The new design should reference the sewage calculations in the JP2G hydrogeological report (#24-7053A).

Austin Hisko

CBO



TOWNSHIP OF McNAB/BRAESIDE COMMITTEE OF ADJUSTMENT

NOTICE TO PUBLIC BODIES

TAKE NOTICE that the Committee of Adjustment of the Corporation of the Township of McNab/Braeside intends to consider an application for a **Minor Variance** to Zoning By-law No. 2010-49, as amended, of the Township of McNab/Braeside for property described as Lot 22, Plan No. 571, with the civic address 1232 Mill Ridge Road. A sketch and information relating to the application is contained on the attached notice.

PURSUANT to Section 45(1) of the Planning Act, you are hereby requested to <u>submit comments</u> related to your department or agency function, or alternatively check off the appropriate response box provided below and return a copy to the Planner by no later than **December 2**, **2024**. Additional information relating to the above is available during regular office hours at the Township Office.

DATED at the Township of McNab/Braeside this 22nd day of November, 2024.

AGENCY	RESPONSE
We have reviewed the information provided for the Minor have no comments or concerns.	Variance Application, and
□ provide the following comments related to ou	r department or agency function:
Ontario Power Generation Inc. (OPG) Agency Jim Tamas - Real Estate Consultant Name (Print) jim.tamas@opg.com Email	Signature December 3, 2024 Date

Please send your comments or responses to Nicole Moore, Junior Planner at the County of Renfrew. nmoore@countyofrenfrew.on.ca

Nicole Moore

From: William Sellars <wrsellars@gmail.com>

Sent: December 2, 2024 2:56 PM

To: Nicole Moore Cc: Kyle Braatz

Subject: Re: Information on Minor Variance for 1232 Mill Ridge Road

[CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.]

Nicole:

Thank you for providing the additional information - it was very helpful.

Please find our comments/concerns regarding the proposed development on lot 22 - 1232 Mill Ridge Road.

We live at 1233 Mill Ridge on lot 21 - the adjoining property west of 1232. We have lived here for 14 years after building our dream retirement location on this lot that we owned for 30 years. Lot 22 next to us was also just a large wooded vacant lot when we built, and for a number of years after. We have been residents or owners/taxpayers in McNab-Braeside for 40 years.

1) Our main concern after reviewing the drawings was the proposed location for the additional septic system required for this expanded large house, near the common property line with us. As shown on our well record attached to the Jp2g engineering report, our well is 17 feet from the property line and is directly beside the proposed septic location. The proposed location of the septic system would NOT meet the 15m MINIMUM spacing required by the OBC and the recommendations in 8.0 of the engineering report. It would need to move several meters to the east which would put it in conflict with the existing garage. It would thus need to move further east which is better since the 15m separation is only a minimum. Even 30m is good design practice which we applied to our lot and also exists at Lot 22. Perhaps a different location can be found on the 2.3 acre lot, near the existing septic system or the lawn east of the main house? We have spoken with our nieghbours - the owners/applicant Braatz's - about this, and they indicated they would look at modifying the location so we expect no issue then.

The proposed location is also in an area currently covered with very tall pine trees, as is our adjacent property. The septic bed would be subject to infiltration of shallow roots from the nearby remaining trees, and the excavation/effluent may destabilize or damage the roots of nearby trees, leading to them falling unexpectedly in dangerous directions in future. One of the almost 200ft pine trees on our side of the property line uprooted with a root ball after a heavy rain and wind storm a few years ago. It crashed to the ground across the rough driveway of 1232 before the house was built, causing area damage.

There is also an old HydroOne transformer with underground cables feeding our 2 lots that is quite near the downward slope from the proposed septic system location. It is on a culvert over the road ditch but the transformer bottom sits almost 50cm below the road surface. Township crews push snow all winter from the cul-de-sac to the ditch there and thus it floods in spring thaw and the transformer is almost underwater. The transformer age, sizing and elevation should be reviewed with HydroOne once the load of the new 1232 expansion equipment is known.

There was also a large underground cable installed at the bottom of this transformer around 2016? which goes underground around the cul-de-sac past the driveway of 1232, and down the drainage easement beside it. It then goes out to the Madawaska River and has submarine cables to the formerly flashing lights on the large high-voltage towers on both sides of the Madawaska. I do not know if these cables are still live since the tower flashing lights were turned off a couple years after installation of the submarine cables.

- 2) We have no issues with the requested variance for encroachment of the 30m setback and understand that the large property is restricted by water setbacks on 3 sides. As a retired engineer/project manager who has executed projects with building site plans, some tweaking of the floor plans and layout may have been possible but a variance is fine...build away! We were surprised to learn that the existing building on lot 22 has several previous encroachments of the 30m setback to the north, and possibly the south although the drawing does not indicate that. We were living in our home next door during all the long construction of that house, and never received any notice of variance request. I doubt the shoreline eroded much or that the measurements method changed. When we built our house we took measures to meet the setback requirements, and the Township building inspector even measured that setback before issuing our occupancy permit. Apparently that may not have been done with 1232 originally? In any case, "water under the bridge."
- 3) We will not look forward to again having the additional noise and activity due to the major expansion adjacent to us, even closer this time, but that is unavoidable with major construction. During the original long construction period, numerous contractor cars, trucks/trailers or equipment were parked around the cul-de-sac. This caused traffic congestion and made it difficult for school buses, garbage trucks and long trailers to navigate around the circle. They often conveniently used our wide driveway to complete the turnaround, which led to some damage to the surface. Perhaps some alternate parking arrangements can be found this time. We will work with our neighbours to make improvements if possible.

The many vehicles including delivery trucks that came down to the end of long Mill Ridge Road often did/do not observe the posted 40kph speed limit, causing some consternation from the many residents who walk or bike on the street.

Any suggestions on how to improve these issues are welcome.

Thank you for your consideration and we look forward to resolution of the above points 1 and possibly 3.

Bill and Cindy Sellars 1233 Mill Ridge

On Fri, Nov 29, 2024 at 9:10 AM Nicole Moore NMoore@countyofrenfrew.on.ca wrote:

Hello Bill,

As discussed over the phone, please find attached .pdfs of the two drawings that were on the notice you received. I've also attached a Hydrogeological Investigation that the applicants submitted with their application regarding the proposed new septic system.

As for your other question, our Senior Planner Anne is not aware that there have been any previous minor variances for the existing dwelling. Our office cannot confirm how the 30 metre setback was established when the existing dwelling was constructed, but it would have been based on the information available at the time. For the purposes of this application, any encroachments of the existing dwelling are considered to be an existing situation.

Lastly, when providing your comments/concerns, make sure to include your name and your relation to the property (in this case, the adjacent neighbour). The comments/concerns can be in point form, or you can use full sentences – either option is fine. Hopefully this helps.

Many thanks,

Nicole Moore

Junior Planner

County of Renfrew

Phone: 613-735-7288 ext. 499

Email: <u>nmoore@countyofrenfrew.on.ca</u>



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MINOR VARIANCE PLANNING REPORT

PART A - BASIC INFORMATION

1. FILE NO.: A-6/24

2. APPLICANT: Kyle & Rachel Braatz (owners)

Samuel Laplante (agent)

3. MUNICIPALITY: Township of McNab/Braeside

(geographic Township of McNab)

4. LOT: 22 REGISTERED PLAN NO.: 571 STREET: 1232 Mill Ridge Road

SUBJECT LANDS

5. COUNTY OF RENFREW
OFFICIAL PLAN
Rural

Land Use Designation(s):

6. TWP OF McNAB/BRAESIDE ZONING BY-LAW 2010-49 Rural Residential (RR)

Zone Category(s)

7. **DETAILS OF MINOR VARIANCE REQUEST**

The minor variance application requests a variance from Section 3.23(d) of Zoning By-law No. 2010-49, to reduce the minimum water setback from the highwater mark from 30 metres to 27 metres. The applicant is proposing to construct a new addition to the existing dwelling, consisting of a pool house, additional bedrooms, and an additional septic system.

Note that the requested variance represents multiple encroachments into the water setback, with the largest of these being 3 metres. Please refer to Appendix 1, which contains conceptual drawings provided by the applicant, to view all existing and proposed encroachments.

8. SITE PERFORMANCE STANDARDS

Zoning By-law Standard	<u>Permitted</u>	<u>Proposed</u>
Section 3.23(d) Minimum setback from the high water mark of a water body	30.0 metres	27.0 metres

9. SITE CHARACTERISTICS AND SETTING

The subject property is located within a waterfront subdivision between Stewartville and Arnprior, on the north shore of the Madawaska River. It is 0.92 hectares in area and fronts onto Mill Ridge Road. The lot contains a dwelling with attached garage, a detached garage, and several accessory structures. Lands on the property gradually slope from Mill Ridge Road to the Madawaska River, with steeper slopes near the shoreline. Note that the lands between the lot and the river are owned by Ontario Power Generation (OPG).

Along Mill Ridge Road are other residential lots that are similar in size and shape to the concerned property. Beyond this, to the north and west are large rural properties that contain a mix of farmlands and natural bush. To the south and east is the Madawaska River, after which lies large tracts of agricultural lands.

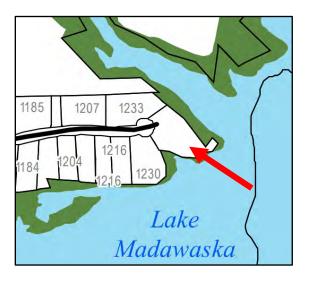


10. **OFFICIAL PLAN**

The subject lands are designated Rural in the County of Renfrew Official Plan. Section 5.3(1) of the Rural designation permits a range of rural uses, including low density residential uses.

Section 2.0 - General Development Policies, contains various general policies that apply to this property and the proposed application.

Section 2.2(11) - Water Setback and Protection of Shoreline Integrity, speaks in detail about development along the waterfront of lakes, rivers, and streams. In particular, it makes the following statements regarding high water marks:



"(a) ...Normal water's edge and normal high water mark are two different features as illustrated in the [figure] below (Source: Natural Heritage Reference Manual – Ministry of Natural Resources and Forestry 2010). Normal water's edge is typically where a water body has standing water and is used by surveyors to determine property boundaries.

The normal high water mark includes the riparian area (i.e., area along the bank of a watercourse) associated with a water feature and is defined as a point where the action of water has been so common and usual that it has created conditions where the vegetation or soil on one side of the mark and the character of the vegetation or soil on the other side of the mark is different.



In some cases, the normal water's edge and the high water mark will be at the same location. In other instances, common features along a river or lake, such as beaches, wetlands, swamps, and bogs create a high water mark inland from the water's edge. These features may be above

the normal water's edge (under private ownership) but are considered to be within the normal high water mark. Buildings and structures are to be setback from this high water mark, as opposed to the water's edge. The local municipality is responsible for determining where the high water mark is located on any individual property. Where there is a dispute in determining the location of the high water mark, the local municipality may consult with experts (i.e., biologists, planners, chief building officials) as it determines appropriate.

(b) Generally all buildings and structures and associated private waste disposal systems will be set back a minimum horizontal distance of 30 metres (or approximately 100 feet) from the normal high water mark of a water body. This requirement may be increased, or in very limited situations decreased. In the case of existing lots, where the setback cannot be met (parcel is a small size or has physical constraints), the setback shall be as remote from the high water mark as the lot will permit and, if applicable, from lands owned or legally utilized by Ontario Power Generation or other producers of hydro-electric power.

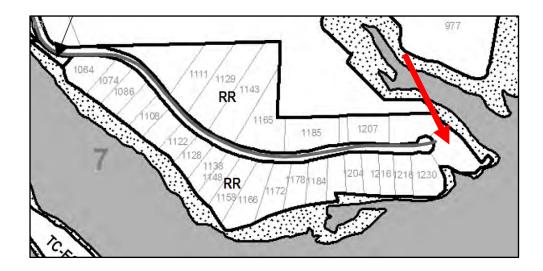
For existing lots of record, where a development is proposed to decrease the minimum 30 metre horizontal setback from the high water mark of a water body, a report, prepared by a professional, may be required that demonstrates the reduction is justified and that the development will not have a negative impact on the quality of the lake water, natural features, or neighbouring properties. The scope of the report should be such that its intent is not to justify an inappropriate encroachment closer to the high watermark than can otherwise be accommodated by an undersized lot. The study should identify existing constraints (lot size, topographical constraints), identify appropriate envelopes for dwelling and septic tile field as far back from the high water mark as is reasonably possible and suggest appropriateness of dwelling size (envelope) for the undersized subject lot.

(d) The property between the shoreline of the water body and the dwelling or private waste disposal system will be retained where possible in its natural state to serve as a buffer which will assist in minimizing the land-surface transport of nutrients to the lake or water body and maintaining a natural landscape view from the water. The retention of the natural soil mantle and vegetation within 30 metres (or approximately 100 feet) of the shoreline of the water body is encouraged.

As a general guideline, up to 25% of the vegetation along the waterfront property may be disturbed for recreational amenity areas, pathways, and other waterfront uses."

11. **ZONING BY-LAW**

The subject property is zoned Rural Residential (RR). Section 6.1(a) of the RR Zone permits a range of rural uses, including a single detached dwelling.



Section 2.0 provides definitions for various terms used in the By-law.

Section 2.97 defines the high water mark as, "...the mark made by the action of water under natural conditions on the shore or bank of water, which action has been so common and usual and so long continued that it has created a difference between the character of the vegetation or soil on one side of the mark and the character of the vegetation or soil on the other side of the mark."

Section 3.0 of the Zoning By-law outlines various General Provisions that may apply to a property and development proposal.

Section 3.23(d) requires buildings, structures, and uses to be setback a minimum of 30 metres from the high water mark.

12. **STUDIES**

Kyle Braatz, part owner of the subject property, provided a cover letter and rationale for the application, dated September 25, 2024. Briefly summarized, it states the following:

- To support their minor variance application, an Improvement Location Certificate (ILC) survey and biologist were used to determine the location of the high water mark.
- Relatedly, a scoped Environmental Impact Assessment was prepared that provides mitigation measures to minimize drainage, sediment, and erosion impacts.
- A Hydrogeological Report was also prepared to evaluate the proposed septic effluent and provide recommendations regarding the new septic system design.
- The proposed location of the addition on the property is the only viable option. This is because:

- The back of the house is composed of floor-to-ceiling windows, which we aim to preserve for natural light and scenic views;
- o Geothermal wiring runs underground to the left of the house, restricting construction in that area;
- Our septic bed and tank are also located to the left of the house, further limiting options for the addition; and
- o The driveway lies in front of the house.
- The proposed design and location of the addition is intended to minimize disruption to the existing home, vegetation, and the natural environment.

Several plans (see Appendix 1) and reports were also submitted with the application. The following is a summary the reports:

<u>Scoped Environmental Impact Assessment, Jp2g Consultants Inc., September 24, 2024</u>

A site visit was conducted on July 18, 2024 to document existing site conditions and to map the highwater mark along the shoreline. Based on the consulting staff's evaluation of the property, it is their opinion that a reduced water setback for the proposed addition can be supported for the following reasons:

- "The lands within the area of the water setback in front of the proposed addition are primarily well vegetated with trees and shrubs along a gentle slope to the River;
- The majority of the lands within the proposed building envelope consist of a maintained lawn area, with some scattered trees. Although some tree removal will be required to accommodate the proposed addition, only a few trees will need to be removed within 30 metres of the River;
- Only approximately 25.6 m² of the proposed addition will be located in the
 area of the water setback. Approximately half of which is for structures which
 will physically be located on the ground (i.e a grill terrace and a portion of the
 guest suite), the other half being for structures which will be located above
 the ground (i.e. a balcony and roof overhang), with a maintained lawn
 underneath;
- The requested 3 metre reduction to the water setback is considered minor and is only 0.98 metres more of an encroachment into the water setback than the existing dwelling which currently encroaches 2.02 metres into the water setback; and
- The recommended mitigation measures below can be properly implemented to ensure no negative impacts occur on the River as a result of the proposed development within a small portion of the water setback."

It is further stated that the proposed development will not have a greater impact on the waterbody, natural features, or neighbouring properties beyond what currently exists, and that the reduced setback will provide the same ecological functions as a 30 metre setback in less ideal conditions. The assessment concludes by providing recommended mitigation measures for the proposed development. They are:

- 1. The proposed addition is to be constructed a minimum of 27.0 metres from the high water mark of the Madawaska River.
- 2. Any new septic system is to be located a minimum of 30 metres from the high water mark of the Madawaska River.
- 3. A 27.0 metre wide buffer area should be maintained along the shoreline of the Madawaska River in the vicinity of the proposed addition, with the exception of the existing gravel pathway leading to the River. This buffer area should be maintained substantially in a natural vegetated state. The limbing of trees to provide for a view of the River and the removal of dead or diseased trees shall also be permitted but limited to the greatest extent possible.
- 4. Vegetation on the subject lands outside of the buffer area should also remain in a natural state as much as possible, except for the clearing of portions of the property to allow for the construction of structures.
- 5. Roof runoff should be controlled by directing water runoff to the rear of the new structures through the use of eave troughs and rain barrels or to a grassed or other permeable area.
- 6. The extent of exposed soils is to be kept to a minimum at all times. Revegetation with native trees and shrubs of exposed, non-developed areas is to be achieved as soon as possible.
- 7. Erosion and sediment control measures are a critical component of the construction work. Effective sediment and erosion control measures are to be maintained until complete re-vegetation of disturbed areas is achieved. Silt fencing is to be installed along the downgradient edge of the work area. It is important that fencing is properly dug-in to treat any surface water flow and is maintained as required, including removal of accumulated sediment.
- 8. Additional mitigation measures to minimize the potential for inputs of sediments and other contaminants into the river and the environment in general include proper maintenance on construction equipment with respect to refuelling, washing and fluid changes, and proper disposal of fluids, filters and other waste materials. None of this work should take place within 30 metres of any surface water features.

Hydrogeological Investigation, Jp2g Consultants Inc., October 18, 2024

The purpose of this investigation was to demonstrate that the property can accommodate an additional septic system, and to provide recommendations for the installation and continued use of this new system.

In determining the suitability of the property, the following work was undertaken:

- completion of a desktop review of published geology maps;
- review of surrounding land uses;
- review of nearby water well records;

- collection of water quality samples from two (2) nearby domestic wells; and
- report preparation.

The investigation found that the underlying bedrock aquifer can provide an adequate supply of potable water, and that the quality of drinking water on site meets Ontario Drinking Water Standards Health-Related guidelines (ODWS). Regarding drinking water aesthetics, the following were identified as being greater than the recommended guidelines:

- Water hardness ranged from 300 to 421 mg/L. The desired operational range is 80 to 100 mg/L.
- Total dissolved solids (TDS) ranged from 507 to 526 mg/L. The desired limit is noted as 500 mg/L.

To address these matters, the installation of a water softener or similar product is recommended.

The report finds that the size of the lot and its soil conditions are suitable to reduce septic impacts made by the proposed new septic system. Relatedly, the report concludes by making the following recommendations:

- The on-site well should be inspected and maintained according to the Best Management Practices (BMP) guidance documentation for wells.
- The setback distance from the existing well to the proposed new sewage system shall be at least 15 meters. This separation distance must also be maintained from the existing well on the adjacent property to the sewage system; and
- The homeowner is advised to have the on-site wastewater system inspected regularly and to follow a wastewater system management program to minimize the risk of failure.

13. **PUBLIC/AGENCY COMMENTS**

As required by the Planning Act, all property owners within 60 metres of the subject property have been notified of the application. The applicant has also posted notice on site. Public agencies have been notified, as required, including Ontario Power Generation. Comments received as of the date of writing of this report are summarized, as follows:

Township of McNab/Braeside Chief Building Official

November 28, 2024

The current on-site sewage system is undersized to service both the proposed addition and the existing residence. A new design for the on-site sewage system has not been submitted. Due to the proximity to water and the size of the proposed residence, the building department will require an engineered design for the on-site sewage system. The new design should reference the

sewage calculations in the Jp2g hydrogeological report (#24-7053A).

Township of McNab/Braeside Director of Public Works

November 28, 2024

The property has an existing entrance. No concerns were noted.

Township of McNab/Braeside Fire Chief

November 28, 2024

No comments or concerns.

Ontario Power Generation

December 3, 2024

No comments or concerns.

Township of McNab/Braeside

December 3, 2024

No concerns with the requested variance.

Bill & Cindy Sellars Owners of 1233 Mill Ridge Road December 2, 2024

The property owners expressed several concerns with the proposed development, which are briefly summarized as follows:

- Mr. & Mrs. Sellars have no issues with the requested reduction of the water setback.
- They are concerned that the new septic system is not in an ideal location. This is because:
 - o It is located close to the north-west property line, and may not meet Ontario Building Code requirements. Mr. & Mrs. Sellars also note their well is located approximately 5 metres (17 feet) on the other side of the north-west property line.
 - The proposed location contains pine trees.
 The installation of the septic system would make them more likely to uproot.
 - An old Hydro One transformer with underground cables located in the general area.

Mr. & Mrs. Sellars have spoken with the owners of the subject lands about these concerns. Reportedly, the owners have indicated they would consider relocating the septic system.

 There is concern that construction of the proposed development will cause traffic congestion, parking, and speeding issues on Mill Ridge Road. Similar issues were experienced when the existing dwelling was built.

14. **GENERAL PLANNING COMMENTS**

As noted above, comments were received from the adjacent home owners at 1233 Mill Ridge Road. The septic and traffic concerns expressed are beyond the scope of the present application, which seeks to consider the proposed reduction to the water setback. In regards to the new septic system, it will need to meet all requirements of the Ontario Building Code, including applicable setbacks. Any design requirements or issues regarding the septic system will be dealt with at the building permit stage. The applicant has been made aware of these concerns and has been provided a copy of the comments.

Section 45(1) of the Planning Act states that a Committee of Adjustment may authorize a minor variance from the provisions of the zoning by-law if: the request maintains the general intent and purpose of both the Official Plan and the Zoning By-law; the development is desirable and appropriate for the lands, building or structure; and the variance is in fact minor. The present application is evaluated on each of these matters in the subsections below.

Intent of the Official Plan and Zoning By-law

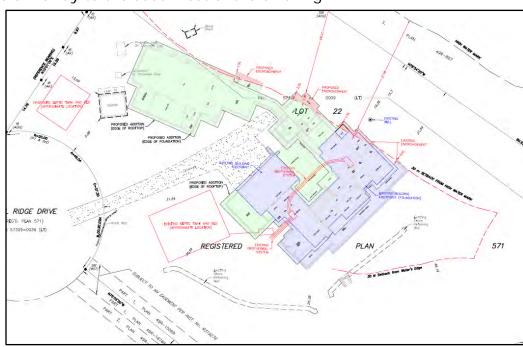
The water setback policies of the Official Plan (OP) stipulate a 30 metre setback for all buildings and structures from the high water mark of adjacent water features/water bodies. While this setback is generally to be maintained, Section 2.2(11)(b) notes that in limited circumstances, the requirement can be decreased. This request to decrease the water setback is to be accompanied by supportive documentation that indicates there will be no negative impacts and there is no other feasible location on the subject property for the proposed development.

Similar to the Official Plan, Section 3.23(d) of the Township of McNab/Braeside Zoning By-law requires buildings and structures to be setback a minimum of 30 metres from the high water mark of water features. This is primarily to minimize impacts to water quality, prevent erosion, and to preserve the natural appearance of the shoreline.

The owners had a biologist evaluate their property to determine the location of the high water mark, as defined by the Official Plan and Zoning By-law, and determine the extent of the proposed encroachment. They have also undertaken a Scoped Environmental Impact Assessment (EIA) to support their request for a reduction to the water setback. This report concludes that no negative impacts to water quality, natural features, or neighbouring properties are anticipated as a result of the proposed development.

Further, the site sketch provided by the applicant (see next page) demonstrates that there are no other suitable locations for the addition and new septic system due to:

- The 30 meter setback buffer on the north and east side of the property;
- Two retaining walls to the east and south of the dwelling;
- The existing septic bed and geothermal system to the south; and



The driveway to the southwest of the dwelling.

Lastly, the EIA and Mr. Braatz's September 25, 2024 letter indicate that the development will minimize the loss of natural vegetation within the 30 metre water setback. In light of this information, the variance is considered to maintain the intent of the Official Plan and the Zoning By-law.

Is the variance desirable?

The addition is designed to minimize the loss of natural vegetation and the overall encroachment into the water setback. This will enable existing visual buffers to the adjacent residential properties and the river to be retained. The proposed development is intended to visually complement the existing dwelling and maximize functionality of the developable area available on the property. Moreover, any potential impacts during site preparation, construction, and post-construction will be mitigated by following the recommendations listed within the scoped EIA.

The Hydrogeological Investigation has found that the property can support an additional septic system to service the dwelling addition, with no negative impacts anticipated. Any mitigation measures recommended in the scoped EIA and the Hydrogeological Investigation will be listed as conditions of this minor variance. As such, the variance is considered appropriate and desirable.

Is the variance minor?

The proposed development will largely maintain the 30 metre setback, with the exception of three areas containing multiple encroachments, the largest of which is 3 metres for a balcony and roof overhang.

As noted in the scoped EIA, only approximately 25.6 square metres of the development is proposed within the water setback, half of which is located above ground level. Additionally, the EIA states that the development will not have a greater impact on the local waterbody and surrounding context beyond what currently exists on site. So long as

the recommended mitigation measures are implemented, no negative impacts are anticipated. As such, the variance being requested is considered minor.

Overall, it is staff's opinion that the proposed variance to permit a slightly reduced water setback for a new addition to the existing dwelling at 1232 Mill Ridge Road, in the Rural Residential (RR) Zone, meets the four tests of the Planning Act.

15. **RECOMMENDATIONS**

That subject to any additional concerns or information raised at the Committee of Adjustment Hearing, the Committee approve the requested variance to Section 3.23(d) of the Zoning By-law, to reduce the minimum water setback to 27 metres for the property located at 1238 Mill Ridge Road, subject to the following conditions:

- 1. The on-site well should be inspected and maintained according to the Best Management Practices (BMP) guidance documentation for wells.
- 2. The setback distance from the existing well to the proposed new sewage system shall be at least 15 meters. This separation distance must also be maintained from the existing well on the adjacent property to the sewage system.
- 3. The homeowner is advised to have the on-site wastewater system inspected regularly and to follow a wastewater system management program to minimize the risk of failure.
- 4. Any new septic system is to be located a minimum of 30 metres from the high water mark of the Madawaska River.
- 5. A 27.0 metre wide buffer area should be maintained along the shoreline of the Madawaska River in the vicinity of the proposed addition, with the exception of the existing gravel pathway leading to the River. This buffer area should be maintained substantially in a natural vegetated state. The limbing of trees to provide for a view of the River and the removal of dead or diseased trees shall also be permitted but limited to the greatest extent possible.
- 6. Vegetation on the subject lands outside of the buffer area should also remain in a natural state as much as possible, except for the clearing of portions of the property to allow for the construction of structures.
- 7. Roof runoff should be controlled by directing water runoff to the rear of the new structures through the use of eave troughs and rain barrels or to a grassed or other permeable area.
- 8. The extent of exposed soils is to be kept to a minimum at all times. Revegetation with native trees and shrubs of exposed, non-developed areas is to be achieved as soon as possible.
- 9. Effective sediment and erosion control measures during construction are to be maintained until complete re-vegetation of disturbed areas is achieved. Silt fencing is to be installed along the downgradient edge of the work area.

- Fencing is to be properly dug-in to treat any surface water flow and be maintained as required, including removal of accumulated sediment.
- 10. Additional mitigation measures to be implemented during construction include: proper maintenance on construction equipment with respect to refuelling, washing and fluid changes, and proper disposal of fluids, filters and other waste materials. None of this work should take place within 30 metres of any surface water features.

Date: December 4, 2024

Prepared by: Nicole Moore, Junior Planner

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APPENDIX 1

