TOWNSHIP OF McNAB/BRAESIDE COMMITTEE OF ADJUSTMENT AGENDA

Thursday, Janaury 30, 2025 Township Municipal Office 2473 Russett Drive

- 1. Call to open hearing.
- 2. Minutes of the previous hearing, December 10, 2024.
- 3. Declaration of a Pecuniary Interest (Money/Financial).
- 4. Consideration of Application No. A-11/24 4:00 p.m.

Part of Lot 24, Concession 9, Brae Loch Road Owners: Cameron and Amanda McGregor

Agent: John J. McGregor

- (a) Purpose of the Application
- (b) Confirmation of Dates
- (c) Confirmation of Notice
- (d) Reading of Written Comments
- (e) Overview of Planning Report
- (f) <u>Discussion and Public Participation</u>
- 5. Decision by Committee for Application No. A-11/24, or call for a further hearing if required.
- 6. Appeal Rights
- 7. Consideration of Application No. A-12/24 4:30 p.m.

101 Lindsay Lane

Owners/Applicants: David and Jennifer Lindsay

- (a) Purpose of the Application
- (b) <u>Confirmation of Dates</u>

- (c) <u>Confirmation of Notice</u>
- (d) Reading of Written Comments
- (e) Overview of Planning Report
- (f) <u>Discussion and Public Participation</u>
- 8. Decision by Committee for Application No. A-12/24, or call for a further hearing if required.
- 9. Appeal Rights
- 10. Other Business
- 11. 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 | RT I | GENERAL INFORMATION |
|-----|-------|---|
| 1. | APP | LICANT/OWNER INFORMATION |
| | a) | *Applicant's Name(s): David and Jennifer Lindsay |
| i. | | *Address: 101 Lindsay Lane, White Lake, ON KOA3LO |
| | | *Phone #: Home () Work () Cell (6/3) (e0/5537) E-mail: daveandjen 1995 Dynail. Com |
| | b) | *The applicant is: the registered owner [X] an agent authorized by the owner [] |
| | c) | If the applicant is an agent authorized by the owner, please complete the following: |
| u. | | *Name of Owner: |
| | | *Address of Owner: |
| | | *Phone #: Home () |
| | d) | To whom should correspondence be sent? Owner [X] Applicant [] Both [] |
| 2. | *PR | OVIDE A DESCRIPTION OF THE SUBJECT LAND: |
| | Stree | et Address: 101 Lindsay Lane, White Lake, DN |
| | Con | cession: Lot: |
| , | Regi | stered Plan No.: Block or Lot No(s). in the Plan: |
| | Refe | rence Plan No.: Part No(s).: |
| 3. | | erent designation of the subject LAND in the official PLAN (IF ANY): |
| 4. | | erent zoning of the subject LAND: |

PART II DETAILS OF THE APPLICATION

| 5. | *PLEASE STATE THE NATURE AND EXTENT OF THE RELIEF FROM THE ZONING BY- |
|-----|--|
| | Sections 3.34 , SS (L) b. To permit a secondary dwelling unit on a water front lot. |
| 6. | *WHAT IS THE REASON WHY THE PROPOSED USE CANNOT COMPLY WITH THE PROVISIONS OF THE ZONING BY-LAW? Section 3.34(1) b requires a minor variance to permit a Secondar |
| 7. | dwelling unit on a water front lot and a supporting study to address private servicing and no impact on the water body. |
| | Frontage: 308 M Depth: 528 M Area: 83.02 acres |
| 8. | *PLEASE MARK BELOW THE ACCESS TO THE SUBJECT LAND: |
| | [] Provincial Highway [] Municipal Road Maintained All Year [] Municipal Road Maintained Seasonally [] Right Of Way [] Water [] Other Public Road: X Other - private road. |
| 9. | *IF THE ONLY ACCESS IS BY WATER, PLEASE STATE BELOW THE PARKING AND DOCKING FACILITIES THAT ARE TO BE USED, AND THE DISTANCE OF THESE FACILITIES FROM THE SUBJECT LAND AND FROM THE NEAREST PUBLIC ROAD: |
| 10. | *WHEN WAS THE SUBJECT LAND ACQUIRED BY THE CURRENT OWNER? |
| 11. | *WHAT ARE THE EXISTING USES OF THE SUBJECT LAND AND HOW LONG HAVE THEY CONTINUED? #1 Residential Since: 1974 / 50 Years |
| | #2 Since: / Years |
| 12. | *ARE THERE ANY BUILDINGS OR STRUCTURES ON THE SUBJECT LAND? Yes [] No |
| 13. | *WHAT ARE THE "PROPOSED" USES OF THE SUBJECT LAND? Secondary dwelling unit (rural residentia) |

| 14. *WILL ANY BUILDI | [] No | | | | | |
|---|--|-------------|--------------|---|-------------------------------------|--|
| 15. *PROVIDE THE FO OR STRUCTURES | | | | arate page if nece | | |
| | EXISTING | | | PROPOSED | | |
| Type of building or structure | Existing | Trailer | Stable | SDU | | |
| Setback from the front lot line | | 649 M | agm | Ce 29 M | | |
| Setback from the rear lot line | 34 M | COYM | 314M | 131 M | | |
| Setbacks from the side lot lines | 127 M | 23 M | 600 M | Ce 7 M | | |
| Height (in metres) | 914 | 3.5M | GM | 911 | | |
| Dimensions or floor area | 58×35×2 | 28/x 101 | 25'x 18' | 50'x32' | | |
| Date constructed | 1974 | 1995 | 1965 | aliabilità de la companya de la comp | | |
| publicly owned and oper privately owned and ope privately owned and ope | publicly owned and operated piped water system [] publicly owned and operated piped sanitary sewage system privately owned and operated individual well privately owned and operated communal well lake or other water body other means: [] privy Other means: Other means: [] | | | | | |
| | *HOW IS STORM DRAINAGE PROVIDED? Sewers [] Ditches [] Swales [] Other Means X Over \and | | | | | |
| 18. *IS THE SUBJECT I A PLAN OF SUBDI | | | | | | |
| *IF YES, PLEASE S APPLICATION: | TATE, IF KNO | OWN, THE FI | LE NO. AND T | HE STATUS OF | THE | |
| File No.: | File No.: Status: | | | | | |
| SECTION 45 OF TH | | | | | 2 (1) 2 (2) 1 (2) 2 (2) 2 (2) 2 (2) | |

| | ON THE SUBJECT LAND: (use a sepa | | PROPOSED | | |
|--|--|--|--|-----------------------------|--|
| Type of building or structure | S.hop | | | | |
| Setback from the front lot line | 687,M | | | | |
| Setback from the rear lot line | 104 M | | | | |
| Setbacks from the side lot lines | 46M 195M | | | | |
| Height (in metres) | 7M | 2 | | | |
| Dimensions or floor area | 26.6x32 | | | | |
| Date constructed | 1985 | | | | |
| publicly owned and opera privately owned and oper | rated individual well | [] publicly owned and [] publicly owned and [] publicly owned and [] privately owned and [] privy | operated communal operated individual s | septic system septic system | |
| privately owned and oper lake or other water body other means: | | Other means: | | | |
| lake or other water body other means: | RAINAGE PROVIDI | Other means: | - 1 | _ | |
| lake or other water body other means; | | Other means: | verland | _ | |
| 7. *HOW IS STORM D Sewers [] Ditches *IS THE SUBJECT I | S[] Swales[] AND ALSO THE S | Other means: ED? Other Means 🂢 O | PLICATION FOR | | |
| 7. *HOW IS STORM D Sewers [] Ditches *IS THE SUBJECT I | S[] Swales[] AND ALSO THE S VISION OR CONSE | Other means: ED? Other Means (A) O UBJECT OF AN APIENT? Yes [] | PLICATION FOR No M Do | n't Know [] | |

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) |
|-------------------------------------|
| I(we) Jennifer Lindsony |
| of the Tourshp of Mc Noble Brauside |
| in the County of Rentrew |
| do hereby authorize |
| The 20/24 |
| Signature of Owner(s) Date |

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.

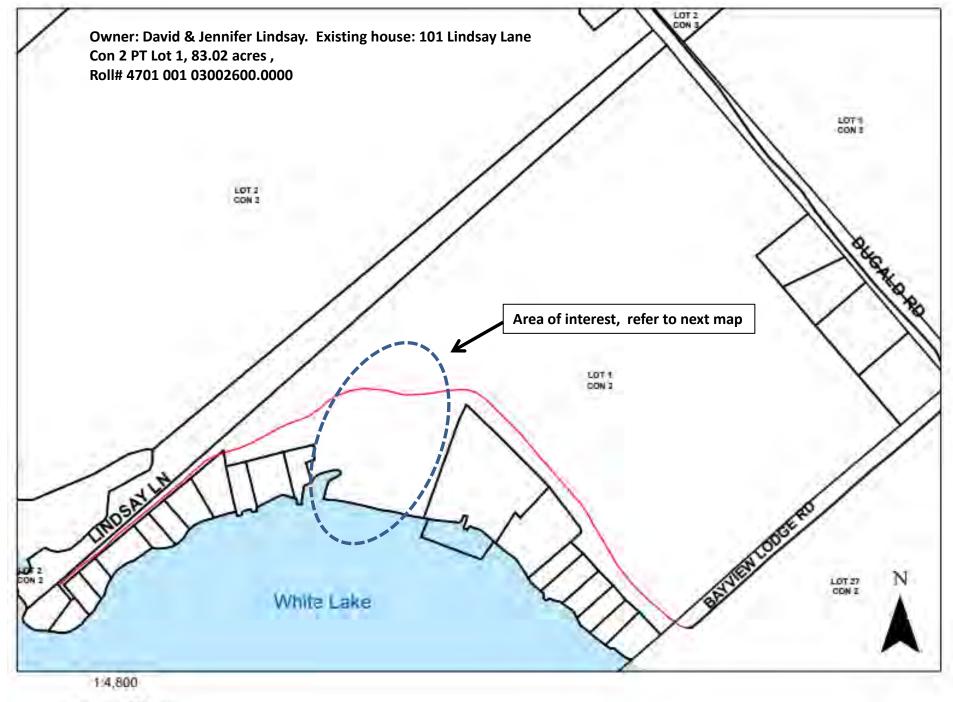
Date

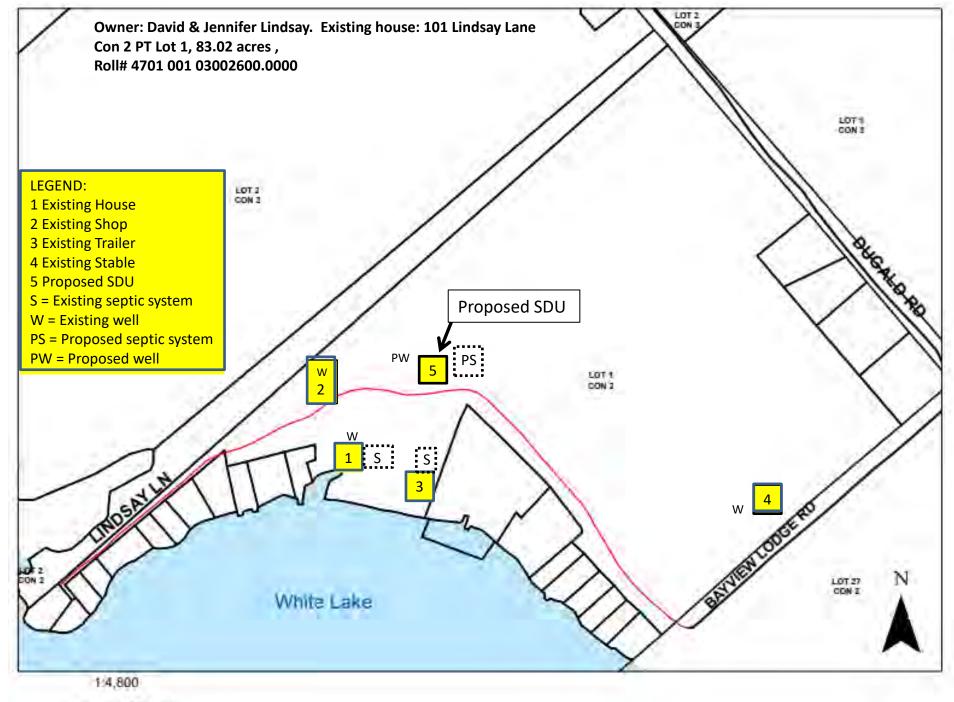
Date

Signature of Øwner/Agent

Signature of Owner/Agent

| PART | *AFFIDAVIT: (This affidavit must be signed in | n the presence of a Commissioner) |
|---|--|--|
| | 1 (we) David Lindsay | |
| | of the Township of McNab/Br | aeside |
| eside. | in the County of Kentrew | |
| Contains Concerns mackets; a Commissions, etc., Province of Unitain, for the Corporation of the Township of McNab/Braeside. Expires July 31, 2027. | solemnly declare that all of the information required un statements contained in this application are true, and I conscientiously believing it to be true, and knowing tha made under oath and by virtue of the CANADA EVIDE | , (we), make this solemn declaration tit is of the same force and effect as if |
| of the 1 | DECLARED before me at the Touship | of McNab Braeside |
| poration 7. | in the County of Rentrew this 23 day of | December, 20 24 |
| r the Cor ly 31. 202 | David Listay | Dec 23/24 |
| tario, fo | Signature of Owner or Authorized Agent | Date / / |
| ទី ដី | Simply | Date 13/CV |
| | Signature of Commissioner | Date |
| acces mails will be anyor | E: One of the purposes of the Planning Act is to provide sible, timely and efficient. Accordingly, all written submor of other communications (including your name and added disclosed/made available by the Township to such perme requesting such information. Accordingly, in providing ed to have consented to its use and disclosure as part of | issions, documents, correspondence, e- ress) form part of the public record and sons as the Township sees fit, including g any such information, you shall be |
| (To be | e completed by the Municipality) | |
| | "COMPLETE" APPLICATION AND FEE OF \$1300 to MUNICIPALITY: | Peposit: |
| | Dec 23 24 Signatu | me of Municipal Employee |
| | Date Oignate | ino of Maniopai Employee |
| | Roll Number | |

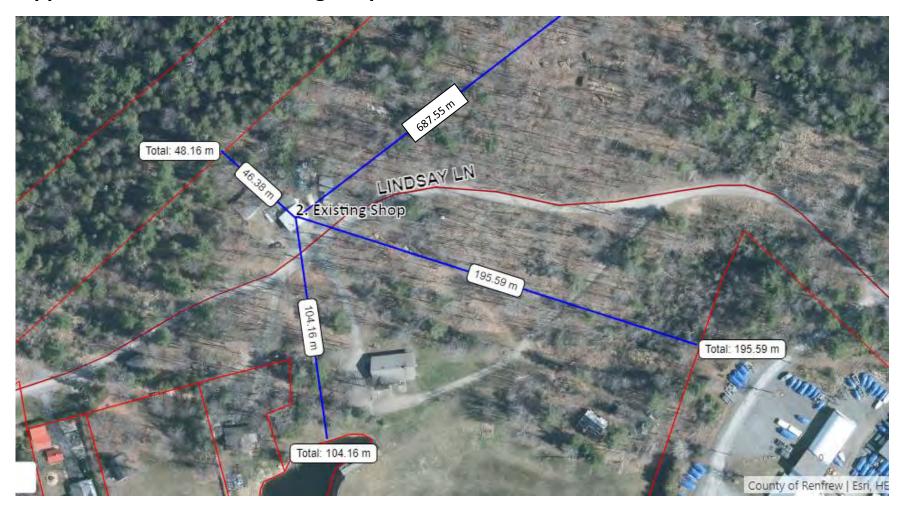




Dec 15, 2024.



Dec 15, 2024.



Dec 15, 2024.





Dec 15, 2024.







December 6, 2024 File: 024445

David & Jennifer Lindsay c/o Jp2g Consultants Inc. 12 International Drive Pembroke, Ontario K8A 6W5

Attention: Janine Cik, Junior Planner

RE: SCOPED HYDROGEOLOGICAL EVALUATION

PROPOSED DETACHED SECONDARY DWELLING

101 LINDSAY LANE, WHITE LAKE TOWNSHIP OF MCNAB/BRAESIDE COUNTY OF RENFREW, ONTARIO

Dear Janine:

This letter reports the results of a scoped hydrogeological evaluation carried out for a proposed detached secondary dwelling at the above noted site. The purpose of this evaluation was to determine, based on an interpretation of the results of limited groundwater sampling and testing, a review of limited existing available hydrogeological and geological information, and a nitrate impact assessment, if the subject site meets our interpretation of the Ontario Ministry of the Environment, Conservation and Parks (MECP) objectives for development using private services for the proposed detached secondary dwelling.

The reader of this letter is referred to the 'Important Information And Limitations Of This Letter' which follows the text of this letter and forms an integral part of this letter.

BACKGROUND

For discussion purposes White Lake is considered to exist at the south side of the site. It is understood that plans are being prepared for the construction of a detached secondary dwelling (SDU) at 101 Lindsay Lane, in the Township of McNab/Braeside, County of Renfrew, Ontario (see attached Figure 1, Key Map and Figure 2, Aerial View).

The approximate locations of the proposed SDU and existing dwelling at the site (101 Lindsay Lane) are shown on the attached Site Sketch Plan (see Appendix A) and the attached Aerial View, Figure 2. The site is a relatively large irregular shaped parcel of land indicated, by Jp2g Consultants Inc., to be some 33.6 hectares in plan area with some 300 metres of frontage on Dugald Road, some 400 metres of frontage on Bayview Lodge Road, and frontage along the entire length of Lindsay Lane. It is understood, based on discussion/correspondence with the site owner, that the existing dwelling at the site is serviced by an on-site private drilled well and septic system and the proposed SDU is planned to be serviced by a proposed on-site private drilled well and septic system. It is further understood that the proposed SDU development (proposed detached secondary dwelling, proposed private on-site drilled well, proposed private on-site septic system) at the site is planned to be located greater than 100 metres from White Lake.

In general, the site is bordered on the north by woodland and Dugald Road, on the east by Bayview Lodge Road, Bayview Lodge Resort, and White Lake Campground with woodland beyond, on the south by White Lake, the White Lake Marina and existing residential development along Lindsay Lane, and on the west by woodland with White Lake beyond.

Municipal services (watermain and sanitary sewer) are indicated to not be available for the proposed SDU and relatively nearby surrounding area.

PROCEDURE

Jp2g Consultants Inc. (Jp2g) provided to us the results of laboratory testing of a sample of well water indicated to have been obtained from the domestic drilled well servicing the existing dwelling at the site and located less than about 100 metres from the proposed SDU. The well water sample is indicated to have been tested for the MECP "Subdivision Package" list of parameters. The results

of the laboratory testing are provided in the attached Appendix B. Jp2g supplied the results of an interview with the sampled well owner regarding the sampled well condition and well water quality and quantity, the results of which are in the attached Appendix C. The sampled well MECP Well Record was also provided to us by Jp2g and is attached as Appendix D.

Existing available surficial geology and bedrock geology maps for the site were reviewed for information concerning the general subsurface conditions at the site. A reconnaissance of the proposed SDU area and general site area out beyond the proposed SDU area was carried out by a member of our technical field staff on November 15, 2024, to familiarize ourselves with the existing development at and nearby the site, the site topography, shallow subsurface soil conditions, and vegetative cover. Based on the information obtained, a nitrate impact assessment was carried out for the site in view of the proposed SDU development.

RESULTS AND DISCUSSION

WELL WATER QUALITY:

The results of the laboratory testing of the well water sample (raw water sample) are provided in the attached Appendix B. The well water is indicated to have been tested in-situ by Jp2g for temperature, pH, conductivity, turbidity, and free and total chlorine at the time of sampling. The insitu testing results for free and total chlorine are indicated to be 0. The in-situ testing results for temperature, pH, conductivity and turbidity are indicated to be 13.6°C, 7.3, 730 µs/cm, and 0.76 NTU, respectively (see page 3 - Questionnaire, Appendix C).

The water sample meets all the Ontario Drinking Water Standards (ODWS) health and aesthetic parameters tested for except for hardness and total coliforms.

Hardness

The water sample obtained from the sampled well is considered to be hard by water treatment standards with a hardness level above the ODWS operational guideline of 80 to 100 mg/L. The hardness for the water sample tested was measured at 411 mg/L. The Technical Support Document for Ontario Drinking Water Standards, Objectives and Guidelines, Revised June 2006, states "Water

supplies with a hardness greater than 200 mg/L are considered poor but tolerable. Hardness in excess of 500 mg/L in drinking water is unacceptable for most domestic purposes".

The hardness level of the water sample is less than what is considered unacceptable (greater than 500 mg/L) for most domestic purposes. The level of hardness measured for the water sample obtained from the sampled well is well within the acceptable range that is considered reasonably treatable. Water softeners are indicated to be adequate to lower hardness to acceptable levels. Water with hardness above 80 to 100 mg/L as CaC0₃ is often softened for domestic use. Water softening by conventional sodium ion exchange may introduce relatively high concentrations of sodium into the drinking water, which may contribute a significant percentage to the daily sodium intake for a consumer on a sodium restricted diet. Where ion exchange water softeners are used, a separate unsoftened water supply could be used for drinking and culinary purposes.

Total Coliforms

The results of the laboratory testing of the water sample indicate total coliforms of 11 counts per 100mL (and 0 counts per 100mL for E.Coli and fecal coliforms). The MECP Guideline Document, D-5-5 Private Wells: Water Supply Assessment (Updated: June 29, 2021), states the following with regard to total coliforms, "For private water wells not subject to approval under the OWRA, the MOEE and Health Units have historically used the limit of <5 counts per 100 ml in the absence of a chlorine residual as indicating acceptable water quality. For the purposes of the assessment described by this Guideline, Total Coliform counts of less than 6 per 100 ml of sample (and 0 for E.Coli and fecal coliforms) shall be considered as indicative of acceptable water quality."

It is understood, based on discussion/correspondence with Jp2g Consultants Inc., that based on the above mentioned total coliforms laboratory testing results the sampled well was chlorinated by the well owners and then an additional water sample was obtained from the sampled well by Jp2g Consultants Inc. for laboratory testing of the ODWS health-related bacteriological parameters. It is further understood that just prior to obtaining the additional water sample the sampled well was tested in-situ for chlorine residual by Jp2g Consultants Inc. and that in-situ testing resulted in free and total chlorine values of 0. The results of the above mentioned in-situ chlorine residual testing carried out by Jp2g Consultants Inc. and the results of the additional water sample laboratory testing of the ODWS health-related bacteriological parameters is provided in the attached Appendix

-5-

File: 024445

B (see "Certificate of Analysis", report dated 2024-11-05 and see "Drinking Water Chain-Of-Custody" for sample obtained on October 28, 2024).

The results of the laboratory testing of the additional water sample indicate total coliforms of 0 counts per 100mL and 0 counts per 100mL for E.Coli and fecal coliforms. Based on the above, following chlorination of the sampled well, the additional well water sample meets the ODWS health-related bacteriological parameters.

Sampled Well Owner Water Quality Information

The sampled well owner indicates that the sampled well provides water that is excellent with regard to taste, odour, colour, iron, gasoline, and sulphur smell, and that is acceptable with regard to hardness. The sampled well owner further indicates that the sampled well water is treated using a water softener (see Appendix C).

WELL WATER QUANTITY:

The MECP Well Record for the sampled well is attached in Appendix D. The MECP Well Record indicates that the well consists of about a 16 centimetre inside diameter steel casing installed through some 0.5 metres of overburden consisting of loam and stones and was set some 14.8 metres into limestone bedrock and was grouted in place using cement and bentonite. The well is indicated to be some 48.8 metres in depth from the ground surface and advanced into a limestone bedrock aquifer. The well driller indicates on the MECP Well Record a recommended pumping rate of 12 gallons per minute or about 45 litres per minute for the sampled well (conservatively assuming "US" gallons per minute units on the MECP Well Record).

Based on the information provided on the above mentioned MECP Well Record, the sampled well is indicated to be capable of more than meeting the minimum rate suggested by the MECP for domestic use of about 14 litres per minute.

Sampled Well Owner Water Quantity Information

The sampled well owner indicates that the sampled well services 5 occupants and that the sampled well provides an adequate quantity of water for their domestic use.

-6-

File: 024445

SEPTIC SYSTEM NITRATE IMPACT ASSESSMENT:

A review of the surficial geology map for the site area (Chapman and Putnam 2007) indicates that the site is underlain by sand plains. A review of the bedrock geology map for the site area indicates that the site is in an area of carbonate metasedimentary rocks; marble, calc-silicate rocks, skarn, tectonic breccias of the Grenville Supergroup and Flinton Group (Ontario Geological Survey 2011).

A site reconnaissance was carried out by a member of our technical field staff on November 15, 2024. The ground cover at the site is, in general, mostly treed except the area of the existing dwelling development at the site and the ground surface/topography is, in general, considered to be rolling to hilly. Shallow hand excavated test pits put down within about the proposed SDU development area at the time of the site visit encountered, in general, topsoil over red brown to yellow brown silty sand. Some relatively small localized areas of inferred exposed bedrock at the ground surface was observed at the site.

The MECP Guideline Document, D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment (Updated: July 13, 2021), provides consideration for developments where the lot size for each private residence is one hectare or larger as it relates to groundwater impact. The risk that groundwater impact limits may exceed the MECP guideline limit are considered acceptable for developments with lot sizes of one hectare or larger (per private residence). As previously mentioned, the plan area of the site is indicated to be some 33.6 hectares. It is considered that the site is of sufficient plan area (greater than 2 hectares) that the risk that groundwater impact limits may exceed the MECP guideline limit is acceptable.

Notwithstanding the above, and for a conservative approach, a nitrate impact calculation has been carried out for the existing dwelling and proposed SDU at the site. To obtain a general indication as to the potential impact of septic effluent on the properties adjoining the site a nitrate dilution model was utilized. The net potential infiltration (annual water surplus) was calculated by the Canada Engineering Climate Services Unit (ECS) based on available meteorological records from Environment Canada for the Carleton Place and Appleton meteorological station indicated to be some 30 kilometres south of the subject site with multiple decades of data (1985-2020) and on a water holding capacity (WHC) of 75 millimetres for the subject site soils. The above WHC is considered to be representative of the silty sand subgrade encountered at the above mentioned shallow hand excavated test pits put down at the

site and is in reference to Table 3.1 of the MOE Stormwater Management Planning And Design Manual (2003), Urban Lawns/Shallow Rooted Crops, Fine Sandy Loam. Based on the above the net potential infiltration, as calculated by the ECS, is 383 millimetres.

With regard to nitrate dilution calculations, the MECP Guideline Document, D-5-4 Individual On-Site Sewage Systems: Water Quality Impact Risk Assessment (Updated: July 13, 2021), states "For the purposes of predicting the potential for groundwater impacts, a nitrate loading of at least 40 grams/lot/day per residential dwelling unit shall normally be used". That guideline document also states in relation to the 40 grams/lot/day, "This is based on expected actual flows of 1000 L/day and a minimum value of 40 mg/L nitrate-nitrogen in the discharge from a Class 4 or Class 6 system treating domestic/household sewage". As such, a daily effluent loading of 1000 litres per day was assumed for the existing dwelling and proposed SDU at the site in accordance with the MECP D-5-4 guideline document.

For a conservative approach for the purpose of calculating the potential infiltration at the site, only 1 hectare per private residence at the site was considered (a total of 2 hectares) as opposed to the actual site area of 33.6 hectares.

With regard to treatment and dispersal of effluent from a leaching bed, the expected impact on the groundwater of the existing and proposed septic systems at the site was determined by considering the attenuation of nitrate in the effluent from an assumed 40 mg/L (as N) at the septic tank to 10 mg/L (as N) at the site boundaries by dilution as a result of the infiltration of meteoric water. The results of the calculation indicate that the expected concentration of nitrate at the down gradient boundary of the site is 5.9 mg/L, which meets the MECP nitrate impact limit of 10 mg/L (see Appendix E).

-8-

File: 024445

CONCLUSIONS AND RECOMMENDATIONS

SUMMARY AND CONCLUSIONS:

Based on this scoped hydrogeological evaluation the following summary and conclusions are provided.

The information obtained concerning the well water condition at the sampled well indicates a sufficient groundwater supply in the bedrock aquifer to satisfy the water requirements of a detached secondary dwelling at the site.

Based on the laboratory sampled well water testing, the groundwater quality at the sampled well, after chlorination of the sampled well, is indicated to be suitable for a potable water supply as it meets the ODWS concentrations for all health and aesthetic related chemical, physical and bacteriological parameters tested for except for hardness. The level of hardness measured for the sampled well is within the acceptable range that is considered reasonably treatable. Water softeners are indicated to be adequate to lower hardness to acceptable levels. Water softening equipment can reduce hardness levels such that excessive problems associated with encrustation/scaling should not occur.

Based on the results of this present scoped hydrogeological evaluation the proposed SDU development at the site is indicated to meet the MECP criteria, as discussed above, as an acceptable setting for septic sewage disposal systems from a groundwater impact point of view.

Based on the above described proposed SDU development at the site it is considered that no significant adverse affects from the proposed private on-site septic system leaching bed servicing the proposed SDU should occur to White Lake from a water quality point of view.

The overburden subsurface conditions encountered within the proposed SDU development area are considered suitable for a Class 4 septic sewage disposal system with an expected partially to fully raised leaching bed depending on the specific subsurface conditions at the actual leaching bed location. The above mentioned localized areas of inferred bedrock at the ground surface at the site are not considered an ideal location for a proposed Class 4 septic system leaching bed.

RECOMMENDATIONS:

Based on this scoped hydrogeological evaluation the following recommendations regarding the proposed groundwater supply well and proposed septic system leaching bed for the proposed SDU at the site are provided.

- The final landscaping at the proposed SDU development area should be graded such that surface water (including any eavestrough downspout discharge and sump line discharge) is not directed to or ponds around the proposed drilled well and that the proposed drilled well casing height be maintained to greater than 0.4 metres above the ground surface. The proposed drilled well for the proposed SDU at the site should be located up gradient of the proposed septic system leaching bed and existing septic system leaching bed at the site and meet the clearance distances to septic system leaching beds and septic tanks indicated in the most recent version of the Ontario Building Code as amended.
- 2) Consideration could be given by the site owner/site developer to the use of level 4 ("tertiary") septic treatment systems, which are indicated to produce better quality effluent, from a groundwater impact point of view.
- 3) The proposed septic system leaching bed should not be located in an area of exposed bedrock at ground surface at the site.
- 4) Future residents at the proposed SDU should be made aware of and refer to the Province of Ontario publication titled "Septic Smart! Understanding Your Home's Septic System (available for download at time of preparation of this letter on the Province of Ontario website, www.ontario.ca/files/2022-10/omafra-septic-smart-understanding-homewastewater-system-en-2022-10-14.pdf).
- 5) The proposed drilled well for the proposed SDU at the site must be constructed, as a minimum, in accordance with Ontario Regulation 903 (O.Reg 903), as amended, and constructed in accordance with the recommendations outlined below and any municipal requirements.

- 6) The steel well casing should be installed and grouted into place to a depth of at least 15 metres into sound bedrock (not weathered bedrock). The steel casing placed in the drilled hole should be pressure grouted in place for the full length of the casing. The material used to seal the annular space could consist of either a cement grout or a commercially available bentonite grout product. Cement grout mixtures should be allowed to set for a minimum 72 hours for regular cement or 24 hours for quick set cement (i.e.: high early cement) prior to advancing the well further into the bedrock. If a bentonite grout product us used, drilling need only be suspended for a few hours depending on the product used. Bentonite grout has the additional advantage of remaining flexible when set and therefore should not crack or shrink thereby ensuring as well as possible that surface water or shallow groundwater will not migrate along the annular space and into the well bore.
- 7) Once the steel well casing has been suitably sealed, the well should be advanced uncased in the bedrock. The proposed well may have to be drilled to a depth of up to some 48.8 metres below the ground surface (based on the sampled well depth). However, due to possible changes in topography and because it is impossible to predict with certainty the depth(s) at which water-producing factures will be encountered during drilling, the above mentioned depth of 48.8 metres below the ground surface should be considered an approximate target depth only. Drilling the proposed well to a depth significantly deeper than 48.8 metres should be avoided, if possible. Should the proposed well be drilled significantly deeper than 48.8 metres depth, then additional water quality testing and review to ensure the well water quality is in keeping with the findings of this present scoped hydrogeological evaluation is recommended.
- 8) The completed well should be development to maximize the yield. It is recommended that the newly constructed well be pumped for a minimum of 6 hours after construction to reduce turbidity levels prior to connection to the proposed SDU water supply plumbing and well casings should be fitted with a pit less adapter to facilitate below ground plumbing and electrical connections and be completed with a vented and vermin proof well cap.
- 9) In order to encourage domestic supply well education and best management practices future residents at the proposed SDU at the site should be made aware of and refer to the

province of Ontario web-doc-publication: https://www.ontario.ca/document/water-supply-wells-requirements-and-best-practices

- 10) Future residents at the proposed SDU at the site should be made aware that it is considered prudent to adhere to the regulatory well maintenance requirements, general maintenance for well owners (Table 11-1: Well Maintenance Checklist Items), and well water quality laboratory testing outlined in the above mentioned province of Ontario web-doc publication.
- 11) Future residents at the proposed SDU at the site should be made aware that the use of a water softener for treatment of hardness may be desired based on the results of the water quality testing carried out for this present scoped hydrogeological evaluation and that the use of conventional sodium ion exchange water softeners may introduce relatively high concentrations of sodium into the drinking water, which may contribute a significant percentage to the daily sodium intake for a consumer on a sodium restricted diet. Where ion exchange water softeners are used, a separate unsoftened water supply could be used for drinking and culinary purposes.
- 12) In addition to the above mentioned recommendation (recommendation No. 11) and as per the MECP D-5-5 Guideline Document, if water softening is utilized, a warning should be registered on title with a recommendation that a separate tap, which by-passes the softener, be installed to supply unsoftened drinking water.
- 13) Future residents at the proposed SDU at the site should be made aware that the proposed drilled well should be adequately disinfected prior to domestic use and that the proposed drilled well must be accessible in perpetuity for maintenance, repair and replacement, as per O.Reg 903.

SIGNATURE

We trust this letter provides sufficient information for your present purposes. If you have any questions concerning this letter, please do not hesitate to contact our office.

Yours truly,

Morey Associates Ltd.

D. G. Morey, P.Eng.

D.G. Mondo

Principal | Consulting Engineer



Attachments: Important Information And Limitations Of This Letter

Figure 1, Key Map Figure 2, Aerial View

Appendices A, B, C, D and E

File: 024445

IMPORTANT INFORMATION AND LIMITATIONS OF THIS LETTER

This letter provides a summary of work that was carried out with generally accepted professional standards at the time and location in which the services were provided and in a manner consistent with a level of care and skill normally exercised by other professional engineering firms practicing under similar conditions and subject to the time limits and financial and physical constraints applicable to the services. No other warranty, expressed or implied, is made.

It is understood based on instruction given to Morey Associates Ltd. by the client and/or by other professionals associated with and/or retained by the client for this project and/or by municipal/county/provincial/regulatory approval agency personnel that this letter may be used for a specific proposed lot development application process. Any other use of this letter by the client and/or by others is prohibited and is without responsibility of Morey Associates Ltd. Morey Associates Ltd. accepts no responsibility for damages, whether direct or indirect, suffered by any third party as a result of any third party use of this letter. Further, Morey Associates Ltd. cannot be responsible for use of only portions of this letter by the client and/or by others without reference to the entire letter.

This letter is of a summary nature and is not intended to stand alone without reference to the instructions given to Morey Associates Ltd. by the client and/or by other professionals associated with and/or retained by the client for this project and/or by municipal/county/provincial/regulatory approval agency personnel. This letter has been prepared based on our interpretation of the instructions given to Morey Associates Ltd. by the client and/or by other design professionals associated with and/or retained by the client for this project and/or by municipal/county/provincial/regulatory approval agency personnel only. Regulatory agency/Municipal review/County review requirements may change in real time during a proposed lot development application process and regulatory agency/Municipal review/County review requirements are subject to interpretation and these interpretations may change over time. As such, no warranty, expressed or implied, is made by Morey Associates Ltd. that this letter meets others' interpretations of any regulatory agency and/or Municipal review and/or County review requirements.

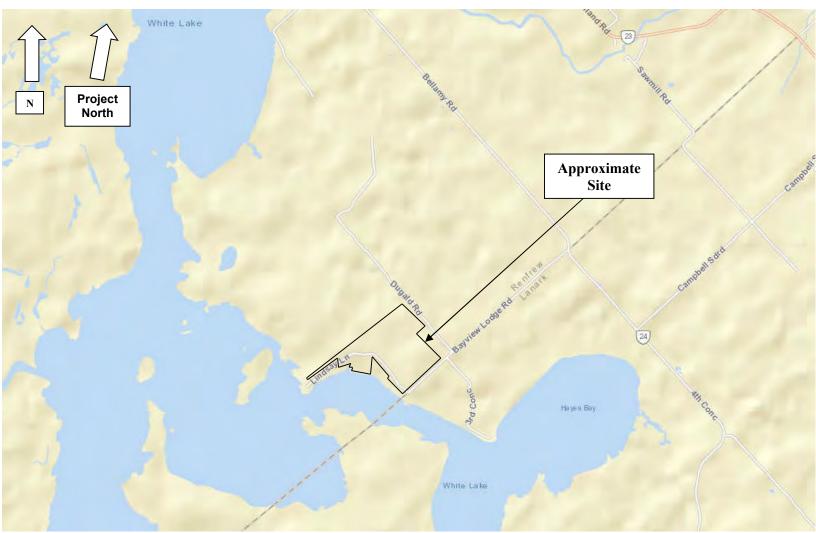
The conclusions provided herein represent an opinion of Morey Associates Ltd. as of the time of preparation of this letter. It is recognized that the passage of time affects the information provided in this letter. This letter should not be construed as legal advice, nothing in this letter is intended to provide a legal opinion. If new information is discovered during future work, including excavations, borings or other studies, Morey Associates Ltd. should be requested to evaluate the conclusions presented in this letter and provide amendments as required.

Any letter recommendations/engineering guidelines are applicable only to the project described in the letter. Any changes in the scope of the project will require a review by Morey Associates Ltd., to ensure compatibility with any letter recommendations/engineering guidelines contained in this letter.

The professional services for this project include only the limited hydrogeological aspects of the scoped/limited evaluation described above/in the letter. Hydrogeological aspects of the subject site not discussed/described above/in the letter are outside the terms of reference for this present scoped evaluation. The presence or implications of possible surface and/or subsurface contamination resulting from previous uses or activities at this site or adjacent/nearby properties, and/or resulting from the introduction onto the site of materials from offsite sources are outside the terms of reference for this letter and have not been addressed.

This scoped hydrogeological evaluation does not address the design/construction of earth/groundwater energy systems at the site. Should earth/groundwater energy systems be considered for construction at the site additional hydrogeological studies and subsurface investigations may be required for obtaining approvals of such systems.

KEY MAP FIGURE 1



Reference: Base Map from County of Renfrew Public GIS Viewer website

NOT TO SCALE



Project No.____024445

Date December 2024

AERIAL VIEW FIGURE 2



Reference: Aerial photograph from County of Renfrew Public GIS Viewer Website

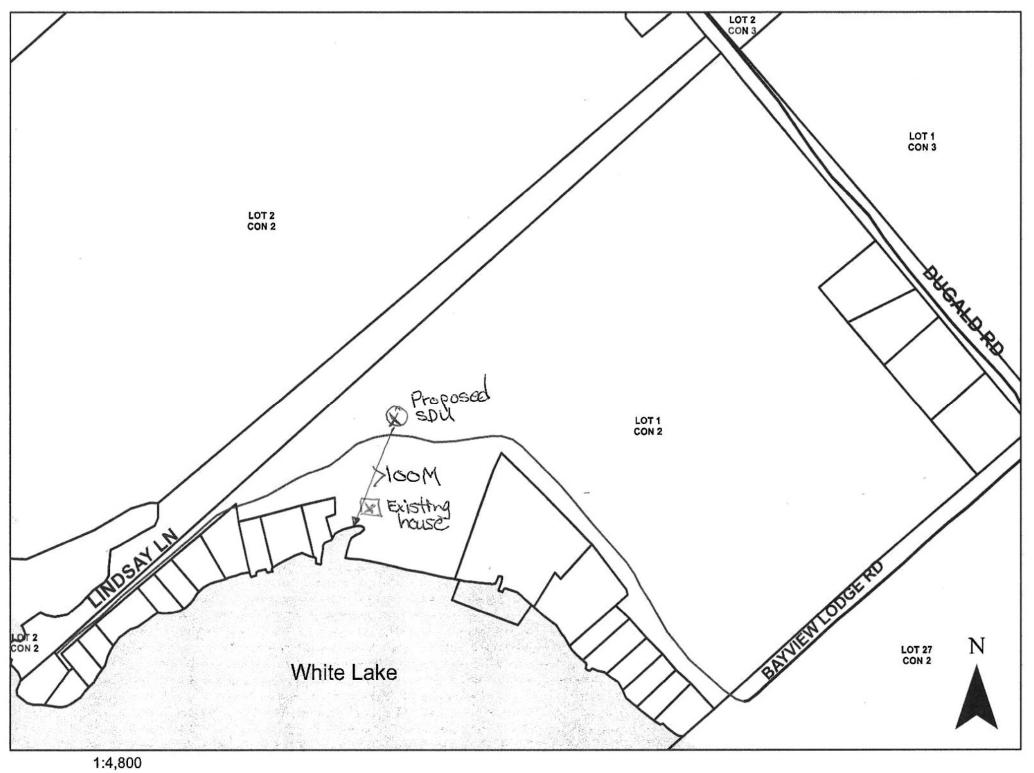
NOT TO SCALE



| Project No | 024445 | | |
|------------|---------------|--|--|
| Data | December 2024 | | |

APPENDIX A

SITE SKETCH PLAN SUPPLIED BY JP2G CONSULTANTS INC.



1.1,000

1 inch = 400 feet

APPENDIX B

RESULTS OF LABORATORY TESTING OF WELL WATER FROM SAMPLED WELL SUPPLIED BY JP2G CONSULTANTS INC.

eurofins **Environment Testing**

Certificate of Analysis

Client: Jp2g Consultants Inc.

> 12 International Dr. Pembroke, ON

K8A 6W5

Attention: PO#:

Mr. Perry Larochelle Invoice to: Jp2a Consultants Inc. (Pembroke) Report Number: 3010063 Date Submitted: 2024-08-08 Date Reported: 2024-08-15

Project: Lindsay Hydro G. 24-7055A

COC #: 916001

Dear Perry Larochelle:

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 7

Report Comments:

Emma-Dawn Ferguson

2024.08.15 15:13:51

-04'00'

APPROVAL:

Emma-Dawn Ferguson, Chemist

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

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: https://directorv.cala.ca/.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

Certificate of Analysis



Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Perry Larochelle

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

Report Number: 3010063

Date Submitted: 2024-08-08

Date Reported: 2024-08-15

Project: Lindsay Hydro G. 24-7055A

COC #: 916001

| | | | | Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. | 1738962 GW 2024-08-07 101 |
|-------------------|------------------------------|--------|-------|--|------------------------------------|
| Group | Analyte | MRL | Units | Guideline | |
| Anions | Cl | 1 | mg/L | AO 250 | 27 |
| | F | 0.10 | mg/L | MAC 1.5 | 0.81 |
| | 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 | 13 |
| General Chemistry | Alkalinity as CaCO3 | 5 | mg/L | OG 30-500 | 363 |
| | Colour (Apparent) | 2 | TCU | AO 5 | <2 |
| | Colour (True) | 2 | TCU | | <2 |
| | Conductivity | 5 | uS/cm | | 717 |
| | DOC | 0.5 | mg/L | AO 5 | 1.2 |
| | рН | 1.00 | | 6.5-8.5 | 7.77 |
| | Phenols | 0.001 | mg/L | | <0.001 |
| | S2- | 0.01 | mg/L | AO 0.05 | <0.01 |
| | Saturation pH | 0.01 | | | 6.73 |
| | Tannin & Lignin | 0.1 | mg/L | | <0.1 |
| | TDS (COND - CALC) | 1 | mg/L | AO 500 | 466 |
| | Turbidity | 0.1 | NTU | AO 5 | 0.4 |
| Hardness | Hardness as CaCO3 | 1 | mg/L | OG 80-100 | 411* |
| Indices/Calc | Ion Balance | 0.01 | - | | 1.04 |
| | Langelier Index | -10.00 | | | 1.04 |
| | Ryznar Stability Index (RSI) | 0.01 | | | 5.70 |
| Metals | Ca | 1 | mg/L | | 125 |
| | Fe | 0.03 | mg/L | AO 0.3 | 0.05 |
| | K | 1 | mg/L | | 1 |
| | Mg | 1 | mg/L | | 24 |

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



Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Perry Larochelle

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

Report Number: 3010063
Date Submitted: 2024-08-08
Date Reported: 2024-08-15

Project: Lindsay Hydro G. 24-7055A

COC #: 916001

| | | | | Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. | 1738962 GW 2024-08-07 101 |
|--------------|-------------------------|-------|----------|--|------------------------------------|
| Group | Analyte | MRL | Units | Guideline | |
| Metals | Mn | 0.01 | mg/L | AO 0.05 | <0.01 |
| | Na | 1 | mg/L | AO 200 | 10 |
| Microbiology | Escherichia Coli | 0 | ct/100mL | MAC 0 | 0 |
| | Faecal Coliforms | 0 | ct/100mL | | 0 |
| | Total Coliforms | 0 | ct/100mL | MAC 0 | 11* |
| Nutrients | N-NH3 | 0.020 | mg/L | | <0.020 |
| | Total Kjeldahl Nitrogen | 0.100 | mg/L | | 0.150 |

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.



Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Perry Larochelle

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

Report Number: 3010063
Date Submitted: 2024-08-08
Date Reported: 2024-08-15

Project: Lindsay Hydro G. 24-7055A

COC #: 916001

QC Summary

| An | alyte | Blank | | QC % Rec | QC Limits |
|-------------------------------------|-----------------------------|----------------|--------|-------------|--------------|
| Run No 464148 Method AMBCOLM1 | Analysis/Extraction Date 20 |)24-08-09 | Analys | st L V | |
| Escherichia Coli | | | | | |
| Faecal Coliforms | | | | | |
| Total Coliforms | | | | | |
| Run No 464216 Method EPA 350.1 | Analysis/Extraction Date 20 |) 24-08-11 | Analys | st SKH | |
| N-NH3 | | <0.020 mg/L | | 112 | 80-120 |
| Run No 464249 Method EPA 351.2 | Analysis/Extraction Date 20 | 024-08-12 | Analys | st SKH | |
| Total Kjeldahl Nitr | ogen | <0.100 mg/L | | 91 | 70-130 |
| Run No 464260 Method EPA 200.8 | Analysis/Extraction Date 20 |) 124-08-12 | Analys | st AaN | |
| Iron | | <0.03 mg/L | | 100 | 80-120 |
| Manganese | | <0.01 mg/L | | 104 | 80-120 |
| Run No 464263 Method SM5530D/EP/ | Analysis/Extraction Date 20 | 024-08-12 | Analys | st IP | |
| Phenols | | <0.001 mg/L | | 113 | 50-120 |

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.



Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Perry Larochelle

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

Report Number: 3010063

Date Submitted: 2024-08-08

Date Reported: 2024-08-15

Project: Lindsay Hydro G. 24-7055A

COC #: 916001

QC Summary

| Analyte | Blank | QC % Rec | QC Limits |
|---|-----------------------|-------------|--------------|
| Run No 464278 Analysis/Extraction Date 2 Method C SM2120C | 024-08-13 An a | alyst AsA | |
| Colour (Apparent) | <2 TCU | 101 | 90-110 |
| Colour (True) | <2 TCU | 101 | 90-110 |
| Run No 464290 Analysis/Extraction Date 2 Method M SM3120B-3500C | 024-08-13 An | alyst ZS | |
| Calcium | <1 mg/L | 108 | 90-110 |
| Potassium | <1 mg/L | 112 | 87-113 |
| Magnesium | <1 mg/L | 103 | 76-124 |
| Sodium | <1 mg/L | 107 | 82-118 |
| Run No 464300 Analysis/Extraction Date 2 Method C SM2130B | 024-08-13 An | alyst AnK | |
| Turbidity | <0.1 NTU | 104 | 70-130 |
| Run No 464330 Analysis/Extraction Date 2 Method SM2320,2510,4500H/F | 024-08-13 An | alyst AsA | |
| Alkalinity (CaCO3) | <5 mg/L | 97 | 90-110 |
| Conductivity | <5 uS/cm | 101 | 90-110 |
| F | <0.10 mg/L | 106 | 90-110 |
| рН | | 100 | 90-110 |

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.



Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Perry Larochelle

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

Report Number: 3010063

Date Submitted: 2024-08-08

Date Reported: 2024-08-15

Project: Lindsay Hydro G. 24-7055A

COC #: 916001

QC Summary

| Ar | Analyte | | | QC % Rec | QC Limits |
|-------------------------------------|---|----------------------|--------|-------------|--------------|
| Run No 464332 Method SM 5310B | Analysis/Extraction Date 20 | 24-08-13 A | nalyst | AsA | |
| DOC | | <0.5 mg/L | | 88 | 80-120 |
| Run No 464344 Method SM 4110 | Analysis/Extraction Date 20 | 124-08-14 A | nalyst | IP | |
| Chloride | | <1 mg/L | | 100 | 90-110 |
| N-NO2 | | <0.10 mg/L | | 100 | 90-110 |
| N-NO3 | | <0.10 mg/L | | 107 | 90-110 |
| SO4 | | <1 mg/L | | 95 | 90-110 |
| Run No 464350 Method C SM2340B | Analysis/Extraction Date 20 | 24-08-14 A | nalyst | AET | |
| Hardness as CaC | 03 | | | | |
| Ion Balance | | | | | |
| TDS (COND - CA | LC) | | | | |
| Run No 464353 Method C SM5550B | Run No 464353 Analysis/Extraction Date 2024-08-14 | | | AsA | |
| Tannin & Lignin | | <0.1 mg/L | | 80 | 80-120 |
| Run No 464431 Method C SM4500-S2 | Analysis/Extraction Date 20 | 124-08-15 A l | nalyst | AsA | |

Guideline = ODWSOG

* = Guideline Exceedence

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Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Perry Larochelle

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

Report Number: 3010063
Date Submitted: 2024-08-08
Date Reported: 2024-08-15

Project: Lindsay Hydro G. 24-7055A

COC #: 916001

QC Summary

| Analyte | Blank | QC % Rec | QC Limits | | | | |
|--|-----------------------|-------------|--------------|--|--|--|--|
| S2- | <0.01 mg/L | 88 | 80-120 | | | | |
| Run No 464441 Analysis/Extraction Date 2024-08-15 Analyst AET Method Calculations | | | | | | | |
| Langelier Index | | | | | | | |
| Saturation pH | | | | | | | |
| Run No 464442 Analysis/Extraction Date 20 Method Calculations | 024-08-15 A na | ilyst AET | | | | | |
| Ryznar Stability Index (RSI) | | | | | | | |

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.



Client: Jp2g Consultants Inc.

12 International Dr. Pembroke, ON

K8A 6W5

Attention: Mr. Perry Larochelle

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

 Report Number:
 3012090

 Date Submitted:
 2024-10-29

 Date Reported:
 2024-11-05

Project: Lindsay Minor Variance

COC #: 917306

Dear Perry Larochelle:

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 3

Report Comments:

Patrick Jacques 2024.11.05 18:19:42 -05'00'

APPROVAL:

Patrick Jacques, Organics Technician

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

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: https://directory.cala.ca/.

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Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

Eurofins multisample(L)44.rpt



Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Perry Larochelle

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

 Report Number:
 3012090

 Date Submitted:
 2024-10-29

 Date Reported:
 2024-11-05

Project: Lindsay Minor Variance

COC #: 917306

| Group | Analyte | MRL | Units | Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. Guideline | 1748635 Water 2024-10-28 101 |
|--------------|------------------|------|----------|---|---------------------------------------|
| Group | Allalyte | WIKL | Ullits | Guidelille | |
| Microbiology | Escherichia Coli | 0 | ct/100mL | MAC 0 | 0 |
| • | <u> </u> | | | | 0 |
| · | Escherichia Coli | 0 | ct/100mL | | - |

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.



Client: Jp2g Consultants Inc.

12 International Dr.

Pembroke, ON

K8A 6W5

Attention: Mr. Perry Larochelle

PO#:

Invoice to: Jp2g Consultants Inc. (Pembroke)

Report Number: 3012090
Date Submitted: 2024-10-29
Date Reported: 2024-11-05

Project: Lindsay Minor Variance

COC #: 917306

QC Summary

| Analyte | Blank | QC % Rec | QC Limits | | | | | |
|--|-------|-------------|--------------|--|--|--|--|--|
| Run No 467730 Analysis/Extraction Date 2024-10-30 Analyst L V Method AMBCOLM1 | | | | | | | | |
| Escherichia Coli | | | | | | | | |
| Faecal Coliforms | | | | | | | | |
| Faecal Streptococcus | | | | | | | | |
| Total Coliforms | | | | | | | | |

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.

917306

eurofins

D

DRINKING WATER CHAIN-OF-CUSTODY

146 Colonnade Road, Unit #8, Ottawa, ON, K2E 7Y1 - Phone: 613-727-5692, Fax: 613-727-5222

Eurofins Workorder #: 3012090

| CLIENT INFORMAT | CLIENT INFORMATION DRINKII | | | | | NKING WATER SYSTEM (DWS) INFORMATION | | | | | | | | | | |
|--|----------------------------|------------|---|--------------|-------------------|--|-----------------|------------|-------------|---------------|-----------------|-----------|---------------|--------------|------------|------------------------------|
| Company: Jo19 | | | | | | DWS Name: | | | | | | | | | | |
| Contact: Per / ara holle | | | | | | DWS #: | | | | | | | | | | |
| Address: 12 International Dr | 'ine | 12 | mb | relin | | Contact: | | | | | | | | | | |
| lephone: 613-281-0253 | | | | | Address: | | | | | | | | | | | |
| Email #1: perry/e, pre. com #2: | | | | | | Telephone: | | | | | | | | | | |
| Declared 1 11 - 11 - 1 | | 01 | | | | Cell Phone: | | | | | | | | | | |
| 0#: Quote #: /92067 | | | | | Email #1: | | | | | | | | | | | |
| REGULATION/GUIDELINE REQUIRED | | | | | | - | | TURN | -AROUN | D TIME (B | usines | s Days) | | | | |
| O. Reg. 170/03 O. Reg. 170/03, Non-Regulated | | Other: | - | | | 1 Day* (1 | 00%) | 2 Day* | * (50%) | | 5 Days (25%) | | | | (Standard | 1 |
| O. Reg. 319/08 O. Reg. 243/07 Non-Regulated | | | | | | | | | | _ | | | | | ******* | |
| (Federal) | | | _ | | | Please contact the la Schedule 24 pesticide | | | | | | | | | e that som | e tests (i.e. O. Reg. 170/03 |
| Has an LSN form been submitted to MECP or MOHLTC. [if applicable]? | nit: | | | | | Schedule 24 pesticide | is may take up | to a weeks | to analyze, | . r icase see | ioles (on rever | sej about | (A) posic | rea. | | |
| The optimal temperature conditions during transport are 4 - 10 °C. | | | | Sample | Details | | | Sample | Analysis | Required | | Fi | eld Mea | sureme | nts | |
| Sample(s) cannot be frozen. Note that for drinking water samples, adver results will be reported where (and how) applicable legislation require The COC must be complete upon submission of the samples, there will be a \$25 surcharge if required information is missing (required fields are shaded in grey). | e (s | = No | MOH Reportable se notification ed/? Y/N | ainers | PL Code/Watertrax | | die to | | | | | | orine | rine | | Sample RN# (Lab Use Only) |
| | mple T | esample? | AECP/MOH R adverse notificatives | of Cont | Code | Sample Location | 3/10 | 4 | | 1. 1 | | L | otal Chlorine | ree Chlorine | Turbidity | |
| Sample ID Date/Time Collects | d & B | 2 × | W (a | - | S | (i.e. Kitchen, POE) | 91 | | + | | - | 표 | 2 | F | 2 | 1110/11 |
| 101 001 28.1029 | KW | 14 | 14 | 2 | | Tanh | - | + | + | \vdash | _ | - | 4 | P | | 1748635 |
| | | / | - | | | 1000000 | \vdash | + | + | \vdash | _ | - | | | | |
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| | | | | | | | | | | | | | | | | |
| Sample Type Codes for Drinking Water: RW = Raw Water, TW = Treated Water at Notice of Subcontracting: Occasionally, situations arise in which Eurofins Environ | nent Testin | (Canada) | (Ottawa) is | unable to p | rocess a samp | le after receipt. By signi | ng this chain-o | | | | | | | | | |
| laboratory that is accredited and, where applicable, holds a drinking water license | Agreemen | ts made ir | | to subcontra | ect to a specific | | | | | | | | | | | |
| PRINT | 10 | 0 | SIGN | M | | DATE/ | TIME | | TEMP (" | C | OMMENTS: | 15 | acle | 2010 | 2 | |
| Sampled By: Perry Larachette | th | all | allel | le. | a | of 28.2024 only Report EC.TC. FC. FS | | | | | | | | | | |
| Relinquished By: | 06 | Non | a lu | ll | Do | t 29 2 | 024 | | | | 1 | -0 | - | 2 | 0 | 10 |
| O Lul's | 1 | ~ | | -1 | | 10119171 | 200 | | 12- | | 6 | = (, | 16 | , 1 | C. | 75 |
| Received By: SWULLY TW | 0 | > | | | | 101-11-4 | 20. | | 10 | | | | | | | |

File: 024445

APPENDIX C

SAMPLED WELL OWNER QUESTIONNAIRE SUPPLIED BY JP2G CONSULTANTS INC.

QUESTIONNAIRE

| | | | | Em We Dat Tim | ail: Julia li Tag: te: Ju | A25 | N=5020 2416 2024 2024 My Larou | hell | E= | <u>38378</u> |
|---|---|--------------------------|-------------------------|------------------------|------------------------------|---------|--|---------|---------------------|-----------------------|
| | | | PROP | ERTY I | NFOR | MATION | / | | | |
| Name of Owner: | | | A | | , | | | | | |
| Address: /o/ | Lindso | 1/1 | 200 | | 1 | | | | | |
| White 1 | ale | Onto | rio. | | 110 | A 30 | 10 | | | |
| Mailing Address | if Different: | 277.44 | 10. | | 40 | | | | | |
| | di La Carriera de la | | | | | | | | | |
| Phone No. | | C | ell | | | | No. of O | ccupan | ts: 4 | - |
| | 218 15 | / | Occupa | nt (if ot | her th | an owne | | | 0 | |
| Name: | | | | | | | | | | |
| How Long at Pre | sent Addres | ss: 25 F | Phone N | o. (Hom | ne) | | Phone N | lo. (Wo | rk) | |
| Type of Dwelling | | ngle Fam | nily [| □ Com | mercia | | Multiple Uni | + - | □ Inetit | tutional |
| Type of Dwelling | U OII | igic i aii | iiiy | | IIIICICIC | | Multiple Offi | | | utional |
| | | | | | | | | | | |
| Type of Business | 3 | | | Tea- | | | | | | |
| Type of Business Basement | | res [| □ No | | | | | | | |
| | | es [| □ No | | | | | | | |
| | | es [| □ No | | | | | | | |
| Basement | | | V | VATER | SUPP | | | | | |
| Basement | | | V | VATER g Well | SUPP | | lunicipal | | | Other |
| Basement Type | Drilled Well | | V | | / | | | | | Other |
| Basement Type Is the well casing | Drilled Well | routed? | V | g Well | / | M | | | | Other |
| Type Is the well casing No. of homes se | Drilled Well g pressure g | routed? | V Dug | g Well | res | □ Mo | | De | | |
| Type Is the well casing No. of homes se Well: To | Drilled Well | routed? | V □ Dug | g Well | res | □ Mo | Syears | De | ppth of | Other Water: |
| Type Is the well casing No. of homes se Well: To End of Rock | Drilled Well g pressure g rved by well otal Depth: | routed? | Diamet | er: 6 | res | ☐ Mo | | | □ epth of | |
| Type Is the well casing No. of homes se Well: End of Rock Pump Type: | Drilled Well g pressure g rved by well otal Depth: Subme | routed? ? //۵0 | Diamet Sand/G | er: 6 | (es | ☐ Mo | 5years Both | Other | | Water: |
| Type Is the well casing No. of homes se Well: End of Rock Pump Type: Type of Well Cas | Drilled Well g pressure g rved by well otal Depth: Subme | routed? | Diamet Sand/G | er: 6 | (es | ☐ Mo | Both a well pit | Other | ried, bu | |
| Type Is the well casing No. of homes se Well: End of Rock Pump Type: | Drilled Well g pressure g rved by well otal Depth: Subme | routed? ? //// ersible | Diamet Sand/G | er: 6 | (es | ☐ Mo | Both a well pit | Other | ried, bu | Water: |
| Type Is the well casing No. of homes se Well: End of Rock Pump Type: Type of Well Cas The accurate loc Do you have a co | Drilled Well g pressure g rved by well btal Depth: Subme sing: | ersible bove growell is: | Diamet Sand/G | er: 6 | res | ☐ Mo | Both a well pit | Other | ried, bu | Water: It not in a |
| Type Is the well casing No. of homes se Well: End of Rock Pump Type: Type of Well Casing The accurate loc Do you have a contreatment: | Drilled Well g pressure g rved by well otal Depth: Subme sing: A ation of the opy of the M | ersible bove growell is: | Diamet Sand/G Dund sur | er: 6 | res | ☐ Mo | Both a well pit Known | Other | ried, bu : Ur | Water: ut not in a |
| Type Is the well casing No. of homes see Well: End of Rock Pump Type: Type of Well Cas The accurate loc Do you have a co Treatment: Chlorination | Drilled Well g pressure g rved by well otal Depth: Subme sing: A ation of the opy of the M Yes Yes | ersible bove growell is: | Diamet Sand/G Dund sur | er: 6 | res | ☐ Mo | Both a well pit Known | Other | ried, bu : Ur | Water: It not in a |
| Type Is the well casing No. of homes se Well: End of Rock Pump Type: Type of Well Casing The accurate loc Do you have a contreatment: Chlorination Softener | Drilled Well g pressure g rved by well otal Depth: Subme sing: A ation of the opy of the M Yes Yes Yes | ersible bove growell is: | Diamet Sand/G Dund sur | er: 6 | res | ☐ Mo | Both a well pit Known | Other | ried, bu : Ur | Water: ut not in a |
| Type Is the well casing No. of homes see Well: End of Rock Pump Type: Type of Well Cas The accurate loc Do you have a co Treatment: Chlorination | Drilled Well g pressure g rved by well otal Depth: Subme sing: A ation of the opy of the M Yes Yes | ersible bove growell is: | Diamet Sand/G Dund sur | er: 6 | res | ☐ Mo | Both a well pit Known | Other | ried, bu : Ur | Water: It not in a |

WATER WELL AND SEWAGE DISPOSAL SYSTEM SURVEY QUESTIONNAIRE

Reference No.:

| | | | W | ATER QUAL | .ITY | | | | |
|----------------------------|-------------------|--|------------|-------------------------|--------------|-------------|-------------------|-----------------|--|
| Do you drink the wa | ater? | Yes [| □ No | If no, since | when: | | | | |
| Have you ever run | out of wat | er? | Yes | s UNO | | | | | |
| Did you ever have | your well | deepened | d or clea | ned, or a ne | w well const | ructed? | ☐ Yes | No | |
| If so, why? | | | | | | | | | |
| Quality: Taste | | | U | Excellent | □ Ad | cceptable | | Poor | |
| Odour | | | U | Excellent | □ A | cceptable | | Poor | |
| Colour | | | | Excellent | □ A | cceptable | | Poor | |
| Hardness | | | | Excellent | L A | cceptable | | Poor | |
| Iron | | | U | Excellent | □ Ad | cceptable | | Poor | |
| Gasoline | | | 9 | Excellent | □ A | cceptable | | Poor | |
| Sulphur Smell | | | P | Excellent | □ A | cceptable | | Poor | |
| If yes, for what? | Dacte How ofte | eriological en? | N | ☐ chemica How often? | al analyses | | ☐ Othe How off | | |
| ATTACH COPY O | | | СНЕМІ | | | OI OGICA | | | |
| | | | | L WATER, II | | | | ., 0,0 1,200210 | |
| | | | | | | | | | |
| | | | WA | TER QUAN | TITY | | | | |
| Does your well sup | ply enoug | h water fo | or your u | use? | | Yes | | □ No | |
| **** | se: \square / | All the tim | e | Some of th | e time | Seasona | ally [| Other | |
| If No, is this the cas | | Use: Domestic No Yes No. of persons using water from well: | | | | | | | |
| | | _ | Yes | No. | or persons c | ising water | ☐ Yes | | |
| | | | Yes Yes | | n Watering | No No | 3000000 | 0 | |
| Use: Domestic | □ No | | | | | No | age (if kı | Yes | |
| Use: Domestic Livestock | □ No | | | | | No | | Yes | |
| Use: Domestic Livestock | □ No | | | | | No | | Yes | |

WATER WELL AND SEWAGE DISPOSAL SYSTEM SURVEY QUESTIONNAIRE

Reference No.:

| | WATER S | AMPLING | INFOR | MATION | | | | | |
|---|---|---------------|----------|---------------------------------------|----------|----------|--------------------------------|--|--|
| Water Quality Field Obse | rvations: | | | | | | | | |
| Appearance | clear | | | cloudy | | | | | |
| Field Measured Paramete | ers: | | | | | | | | |
| Temperature °C =/3.6 | PH = 7,3 | | Chlo | orine Total | = | \$ | | | |
| Conductivity us/cm =73 | Turbidity = 0 | 76 N. | n Chlo | orine Free = | | | | | |
| Other Comments: No Colour Observed - Hach Colour Test Ket ED# 0902 | | | | | | | | | |
| Water Sample Collected: | ater Sample Collected: No Ves If no, why? | | | | | | | | |
| Note: Collect Sample of | f "untreated" wate | r only 🧼 | | | | | | | |
| Duplicate Water Sample Collected (10% of Locations for Project QA/AC) | | | | | | | | | |
| Location where samples of | collected Pro | essure | Tar | ik | | | | | |
| Sample Water By-Pass A | ny Treatment Unit | | | | | 0 | Yes 🗌 No | | |
| Type of Samples Submitted for Analysis Bacteria | | | | | | Chem | iical | | |
| | SEWAGE | SYSTEM | INFORM | MATION | | | | | |
| Type of sewage system ☐ Septic Tank and Raised Bed ☐ Partially Raised Bed | | | | | | | | | |
| Septic Tank and Ingro | und Leaching Bed | ☐ Hol | ding Tan | k | 1 | _ Of | ther | | |
| If Septic Tank and Leachi Bed: | ng Does Lea sewer? | ching bed | discharg | ge directly | to ditch | n or | □ No □ Yes | | |
| Number of Chambers | one | | two | two | | | unknown | | |
| Septic Tank Location | Zone: 187 | | Northin | orthing: | | Easting: | | | |
| Type of Septic Tank: | | Steel | Concrete | | | | ☐ Other | | |
| What is the Length of Dist | ribution Pipe: | unk | nown | | | | | | |
| If Holding Tank: What is the age of the sev | on and comments: | Septie bed | was the | last time to | he Tar | nk wa | s Pumped Out? 202 to a Pump | | |
| What is the Approximate I | | | | | tem? | | 15m T | | |
| Was the System Approve | | | | □ No | _ | | Yes | | |
| Have there been any Prob | olems with the Sewa | age Syste | m? | No | | | ☐ Yes | | |
| Please comment: | | | | | | | | | |
| Multimeter Used to Record Turbidity Meter Used for F Technician Signature | | | | Verification Verification Date: | | | | | |

File: 024445

APPENDIX D

SAMPLED WATER WELL RECORD SUPPLIED BY JP2G CONSULTANTS INC.

Ministry of the Environment Well Tag No. (Place Sticker and/or Print Below) Well Record and Climate Change Regulation 903 Ontario Water Resources Act A252416 Measurements recorded in: Metric Imperial Page Well Owner's Information Last Name / E-mail Address ☐ Well Constructed by Well Owner failing Address (Street Number/Name) Province Postal Code Telephone No. (inc. area code) 101 LINDSAY LANE WHITE LAKE ONTI KOABKO Well Location Address of Well Location (Street Number/Name) TOWNSHIP CNAIS/BRAESIDE PART 101 LINDSAY LANE County/District/Municipality Postal Code RENFREW WHITE LAKE Ontario (DABLD Municipal Plan and Sublot Number Other Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Most Common Material Other Materials Depth (m/ft) General Description From BROWN LOAM STONES GREY LIMESTONE Annular Space Results of Well Yield Testing Depth Set at (m/ft) From | To Type of Sealant Used (Material and Type) Volume Placed 3 After test of well yield, water was: Draw Down Recovery Time Water Level Time Water Level (min) (m/ft) (min) (m/ft) (mi/#2) y/c) Clear and sand free Other, specify CEARING 30 BENTONITE -256 GROUT Level 2010 If pumping discontinued, give reason 30 CEMENT GROUT ,260 50 40,0 2/090 Pump intake set at (m/ft) 35.0 2 26.0 150 28,50 3 29,40 Pumping rate (Vmin / GPM) Method of Construction Well Use 15 B2.80 4 25,60 Cable Tool Diamond Public ☐ Commercial ☐ Not used Duration of pumping Domestic Livestock ☐ Dewatering Rotary (Conventional) Jetting ☐ Municipal 5 34.30 5 22.10 hrs + min ☐ Rotary (Reverse) Driving ☐ Test Hole ☐ Monitoring Final water level end of pumping (m/ft) 476 25 Boring ☐ Imigation Cooling & Air Conditioning 41.0 10 16.80 ☐ Digging Air percussion
Other, specify ☐ Industrial Other, specify 15 43,50 15 15,80 If flowing give rate (Vmin / GPM) Construction Record - Casing Status of Well 20 / 5. 40 20 45. D Water Supply
Replacement Well Open Hole OR Material Wall Recommended pump depth (m/ft) 25 46,0 25 15,20 Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel) **Thickness** /50 Recommended pump rate To (cm/in) (cm/in) Test Hole 30 4/6.35 30 15,10 0188 Recharge Well STEFL (Vmin / GPM) Dewatering Well 40 4/6.80 40 15.04 Observation and/or Well production (Vmin / GPM) Monitoring Hole 50 47.0 15.0 Alteration (Construction) 60 47.25 60 14.90 Yes No Abandoned, Insufficient Supply Map of Well Location Construction Record - Screen Abandoned, Poor Please provide a map below following instructions on the back Outside Diameter (cm/in) Water Quality Depth (m/ft) Material (Plastic, Galvanized, Steel) Abandoned, other, From specify Other, specify Hole Diameter Water Details LINDSAY LN. Water found at Depth Kind of Water: ☐Fresh ☐Untested ☐ / / (m/tt) ☐Gas ☐ Other, specify ☐Water found at Depth ☐Kind of Water: ☐Fresh ☐Untested ☐ / / 2 am/tt) ☐Gas ☐Other, specify ☐FORT CK Depth (m/ft) Diameter 63 20 160 X Water found at Depth Kind of Water: Fresh Untested (m/ft) Gas Other, specify Well Contractor and Well Technician Information Business Name of Well Contractor WHITE LAKE SAUNDERS WELLDRILLING 4181719 Business Address (Street Number/Name) Comments Municipality 1680 SCHEEL BRAESIDE Business E-mail Address Postal Code KOA160 Ministry Use Only ONT. Well owner's Date Package Delivered Bus. Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name)

| Shull Fechnician's Licence No. | Signature of Technician and/or Contractor | Date Submitted | Total State | Sta Audit No. Z29277 package delivered 2019012 Date Work Completed X Yes 2019012 201190221 ☐ No

Ministry's Copy

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File: 024445

APPENDIX E

SEPTIC SYSTEM NITRATE IMPACT ASSESSMENT

File: 024445

NITRATE DILUTION CALCULATION FOR PROPOSED SDU AND EXISTING DWELLING AT SITE

Net Potential Infiltration (NPI) = 383 millimetres (as calculated by the Canada Engineering

Climate Services Unit)

Infiltration Reduction Factor (IRF)

Rolling to hilly 0.15
Silty sand subgrade 0.35
Assumed cleared of trees (conservative) 0.10
IRF 0.60

Volume of Available Annual Infiltration

 $20,000 \text{ m}^2 \times 0.383 \text{ m}^3/\text{m}^2 \text{ (NPI)} \times 0.60 = 4596 \text{ m}^3$

Annual Volume of Effluent for 2 Septic Systems (i.e.: 1 existing, 1 proposed)

 $2 \times 365 \times 1 \text{m}^3$ per system per day = 730 m³

Concentration of Nitrate at Boundary =

$$\frac{730 \times 40}{(1^* \times 365) + 4596} = 5.9 \text{ mg/L}$$

^{*}Number of Lots is used as per MECP D-5-4 guideline document, section 5.6.2.(b)(v) which states "The volume of sewage effluent, if used as dilution water in mass balance calculations, should not exceed 1000 L/day/lot"



TOWNSHIP OF McNAB/BRAESIDE COMMITTEE OF ADJUSTMENT

Date: January 10, 2025

McNab/Braeside NOTICE OF HEARING AND REQUEST FOR COMMENTS

| To: CAO/C | lerk | | Date. Sandary 10, 2025 |
|---------------------------|--|-----------------------|---|
| Place: | McNab/Braeside Municipal Office 2473 Russett Drive, Amprior | File: | Minor Variance Application A-12/24 |
| Hearing Date: | Thursday, January 30, 2025 | Owner/Agent: | David & Jennifer Lindsay (Owners) |
| Time: | 4:00 p.m. | Property Location: | 101 Lindsay Lane Part of Lot 1, Concession 2 |
| Adjustment requirement | A-12/24 has been received and will be he t on the above noted date. So that the applients of The Planning Act, the Committee request eturned to the Committee. | sts that the inform | |
| 1. BUILT | ised Septic bed required du ht grater than Sm [3.3 | e to bed 3(d)(d)] | rock. Proposed bailding |
| 5 | | | Chief Building Official |
| | | | |
| 8 | | | |
| | | | |
| | | := | NA |
| | | | Building Inspector |

| PUBLIC WORK COMMENTS | Yes | No | N/A |
|---|--------|----------|------------------------|
| (a) Are the following services available to this land? Municipal Water Sanitary Sewers Electricity Garbage Collection | | | |
| (b) Does the subject lot have <u>direct</u> access to a public road maintained by the Municipality? | | | |
| (c) If direct access is to a municipal public road: | | | See Connects. |
| (i) Would access be obtained where a traffic hazard would be created because of limited sight lines, curves or grades? (ii) Is the Municipality willing to issue an entrance permit? (iii) Is road widening or dedication required? | | | |
| Comments: THE SUBJECT PROPERTY DOES HAVE FRONTAGE ON AN O | DPEN P | oblic R | OAD (BATVIEW LOOGE RO) |
| HOWEVER THE APPLICANT HAS PROPOSED THAT THE SOU B | E LOC | MED | ON AN |
| EXISTING PRIVATE ROAD (LINDSAY LANE). | | | |
| THE TOWNSHIP PUBLIC HORKS DEPT. HAVE NO COMMENT | 5 VIT | H REG | ARDS TO |
| ACLESS VIA A PRIVATE ROAD. | | | |
| | 0. | T | |
| | m | ra | > |
| | Direc | tor of F | Public Works |
| FIRE DEPARTMENT COMMENTS: | | | |
| Fire Reportment has | No | CP. | moments |
| or concerns | | | |
| | | | |
| | | 1 | and the |

2.

3.

Page 2 | 3

Fire Chief

| COUNCIL/PL | ANNING ADVISORY C | OMMITTEE COMM | /IEN I | | Yes | No |
|---------------------------|--|-----------------------|--------------------|-------------|---------|----------|
| a) Does Coul (i) If no | ncil recommend minor vot, outline reasons why. | ariance be given? | | | | |
| _ | | | | | | |
| - | | | | | | |
|) Should th | ne minor variance be gra | anted, what condition | ons, if any, would | Council wis | sh to s | ee appli |
| • | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

X:\Planning\Data\MUNICIPAL\McNab-Braeside\Minor Variances\2024\A-12 David & Jennifer Lindsay\3. CoA Documents\Item 4_Township Internal Circulation.docx



MINOR VARIANCE PLANNING REPORT

PART A – BASIC INFORMATION

1. FILE NO.: A-12/24

2. APPLICANT: David & Jennifer Lindsay (Owners)

3. MUNICIPALITY: Township of McNab/Braeside

(geographic Township of McNab)

4. LOT: 1 CONCESSION: 2 STREET: 101 Lindsay Lane

SUBJECT LANDS

5. COUNTY OF RENFREW Rural OFFICIAL PLAN **Environmental Protection** Land Use Designation(s):

TWP OF McNAB/BRAESIDE 6. ZONING BY-LAW 2010-49 Zone Category(s)

Rural (RU) Environmental Protection (EP)

7. **DETAILS OF MINOR VARIANCE REQUEST**

The minor variance application requests a variance from Section 3.34(I)(b) of Zoning By-law No. 2010-49, to permit a secondary dwelling unit on a waterfront lot.

The proposed secondary dwelling unit will be 9 metres in height with a floor area of 148.64 square metres, and will be setback approximately 130 metres from the shoreline of White Lake.

SITE PERFORMANCE STANDARDS 8.

Permitted/Required **Proposed** Zoning By-law Standard

Section 3.34(I)(b) No secondary dwelling A secondary dwelling unit be units on waterfront lots. permitted on a waterfront lot,

subject to conditions outlined in the Hydrogeological

Evaluation.

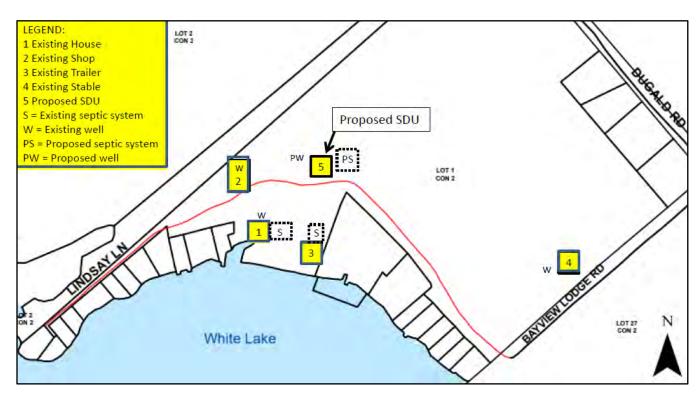
9. SITE CHARACTERISTICS AND SETTING

The subject property is located approximately 2.5 kilometres south of the hamlet of White Lake, and abuts both White Lake and the neighbouring municipality of Mississippi Mills (see right). It is approximately 33.6 hectares in area, fronts onto Dugald Road, and contains a private road known as Lindsay Lane.

The lot also contains a dwelling with a private workshop, a trailer, and a stable (see below). Lands on the property generally slope from Dugald Road to White Lake, with some steeper slopes present along the north and west lot lines of the parcel.



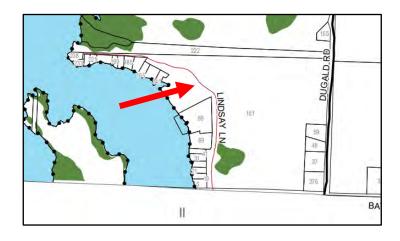
A number of small waterfront residential lots abut the rear lot line of the property and front onto Lindsay Lane. Several other residential lots are present to the northeast, along with larger rural lots. To the north and west are additional large, rural properties that contain a mix of farmlands and natural bush. Lastly, to the south and east are several tourist commercial uses, followed by White Lake and more tracts of rural land.



10. **OFFICIAL PLAN**

The subject lands are primarily designated Rural in the County of Renfrew Official Plan, with a small portion designated Environmental Protection. 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(24) – Additional Dwelling Units, outlines criteria that must be satisfied in order for a secondary dwelling unit(s) to be permitted. For properties on private well and septic services, criteria applicable to the present application are as follows:

- a. One secondary dwelling unit may be considered per lot;
- c. A secondary dwelling unit shall be permitted on lots greater than 0.8 Ha in area. The secondary dwelling is required to share the same water and septic/sewer services as the primary dwelling unit. Secondary dwelling units on properties that are greater than 2 Ha are not required to share the same water and septic systems;
- e. A secondary dwelling unit may not be severed from the lot with the primary dwelling;
- g. A secondary dwelling shall not be permitted on 'at capacity lakes' or 'lakes near capacity'; and
- h. A secondary dwelling may be permitted on waterfront properties by minor variance provided a study is submitted demonstrating no negative impacts on the waterbody, the availability of potable drinking water (quantity and quality), and that addresses septic effluent.

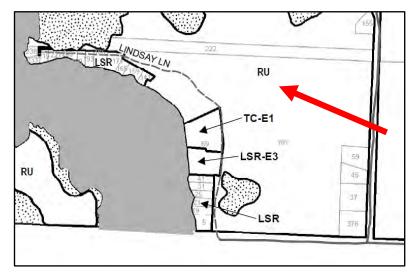
11. **ZONING BY-LAW**

The majority of the subject lands are zoned Rural (RU) in the Township's Zoning Bylaw, with a small portion zoned Environmental Protection (EP) (see below). Section 17.1(a) of the RU Zone permits a range of uses, including a single detached dwelling.

Section 17.2(c) states that the minimum front yard depth is 7.5 metres.

Section 17.2(d) states that the minimum side yard width is 3 metres.

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



Section 2.84 defines FLOOR AREA, GROSS in part as, "...the total area of the storeys exclusive of basements, cellars, attic, garages, sunrooms, unenclosed verandas or porches... only that floor area having a clear height to the ceiling of at least 2.25 metres may be used to calculate floor area."

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

Section 3.3.6 provides maximum heights for accessory structures in residential, commercial, and industrial zones. Notably, it does not list any maximum height for accessory structures in the RU zone.

Section 3.34 lists provisions related to secondary dwelling units. This use is generally permitted where other residential uses are permitted, subject to the following applicable criteria:

- a. A secondary dwelling unit shall only be permitted where adequate servicing is or can be made available to accommodate the secondary dwelling unit, including but not limited to water, waste water, stormwater, and electricity.
- b. A minimum 0.8 hectare lot area shall be required for a secondary dwelling unit on lots with private (well and/or septic) services.
- c. The gross floor area of the secondary dwelling unit must be less than the gross floor area of the primary dwelling unit.
- d. A secondary dwelling unit which is a Coach House, or is located in an accessory building to the primary dwelling unit shall be subject to the following provisions:
 - a. The minimum side yard width and rear yard depth applicable to the primary dwelling unit shall also apply to the Coach House.
 - b. The Coach House shall not be located in the minimum front yard setback in a Rural (RU) or Agriculture (A) zone, or within a front yard in all other zones.
 - d. The maximum height shall be the permitted height of an accessory building.

- f. A minimum of one (1) parking space is required for a secondary dwelling unit.
- g. A maximum of one secondary dwelling unit shall is permitted per primary dwelling.
- I. Secondary dwelling units on waterfront lots:
 - a. Secondary dwellings shall not be permitted on lots within 300 metres of a lake identified as 'At Capacity'.
 - Capacity', secondary dwellings shall not be permitted. A secondary dwelling may be considered through the submission and approval of a minor variance application. The proponent of the application is required to submit a study addressing matters outlined in the Official Plan.

12. **STUDIES**

A scoped Hydrogeological Evaluation and several additional sketches were submitted with the application. A summary of the evaluation is provided below. To view the additional sketches, please refer to Appendix 1.

Scoped Hydrogeological Evaluation, Morey Associates Ltd., December 6, 2024

The purpose of this evaluation was to determine if the property can accommodate a secondary dwelling unit on separate private well and septic services.

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

- Testing of water well samples obtained by Jp2g Consultants Inc.;
- Review of well records and well owner interview provided by Jp2g Consultants Inc.;
- Review of available surficial geology and bedrock geology maps;
- A site visit by technical field staff on November 15, 2024 to evaluate existing site conditions (ie. existing development, site topography, soil conditions, and vegetative cover); and
- A nitrate impact assessment based on the above information.

The evaluation found that there is a sufficient potable groundwater supply within the bedrock aquifer to support a detached secondary dwelling unit. The groundwater meets all Ontario Drinking Water Standards with the exception of water hardness, which can be treated with water softeners to lower the hardness to acceptable levels.

It was determined that the proposed development meets provincial criteria for septic effluent. From a groundwater impact and water quality perspective, the site is suitable for an additional private septic system. No significant adverse effects on White Lake are anticipated from the proposed septic system.

A Class 4 septic sewage disposal system with a partially to fully raised leaching bed is recommended for installation, based on the overburden subsurface conditions encountered on site. The report further notes localized areas of inferred surface bedrock are not ideal locations for this type of septic system and should be avoided.

The report concludes by providing a list of 13 recommendations related to the proposed private well and septic system for the secondary dwelling unit. Please refer to Section 15 of this report to view all recommendations.

13. **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 the Township of Mississippi Mills.

As of writing this report, the only comments received are those from the Township of McNab/Braeside staff, received January 21, 2025. The Public Works Department and the Fire Department expressed no concerns with the requested variance. The Building Department noted that a raised septic bed will be required due to the presence of bedrock. Additionally, the Building Department was concerned that the proposed height of the secondary dwelling unit would not comply with the accessory height requirements of the Zoning By-law. Due to timing issues, the Township of McNab/Braeside Council was unable to comment on the application.

Should any additional comments be received, they will be provided at the Hearing.

14. **GENERAL PLANNING COMMENTS**

As noted above, comments were provided by the Township of McNab/Braeside Building Department. With regard to the raised septic bed, this will be addressed at the building permit stage and in accordance with the recommendations of the Hydrogeological Evaluation.

The proposed development will meet the accessory height provisions of the Zoning By-law. This is because the proposed development is located with the Rural (RU) Zone, which permits residential and non-residential uses. This is a large rural lot with residential uses, and the potential for other non-residential uses to be present. Further, the proposed height of 9 metres is no higher than what is permitted for a primary dwelling in the Rural Residential (RR) Zone. Section 3.3.6 of the Zoning By-law only provides maximum heights for accessory buildings within primarily residential, commercial, and industrial zones. As such, the proposed 9-metre secondary dwelling unit height is considered appropriate.

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

Both Section 2.2(24) of the Official Plan and Section 3.34 of the Zoning By-law outline criteria that secondary dwelling unit proposals must meet in order to be permitted. The

following paragraphs examines each of these applicable criteria. Please refer to Sections 10 and 11 of this report to view the applicable secondary dwelling unit criteria of the Official Plan and the Zoning By-law.

Official Plan – Section 2.2(24)

- a. Only one secondary dwelling unit is proposed. Criteria met.
- c. The concerned property is 33.59 hectares in size. This exceeds the 0.8 hectare minimum required to permit a secondary dwelling unit. It also exceeds the minimum 2.0 hectare requirement for a detached secondary dwelling unit to be permitted on separate private well and septic services. The proposed secondary dwelling unit is seeking to be detached with separate private services, which is permitted in this provision. *Criteria met*.
- e. The applicants are not proposing to sever the secondary dwelling unit. Criteria met.
- g. The concerned property abuts White Lake. White Lake is not a provincially designated At-Capacity lake under Section 9.3 of the Official Plan. Therefore, the proposed secondary dwelling unit is not considered to be on an At-Capacity lake. *Criteria met.*
- h. The concerned property is considered a waterfront lot, as it directly abuts White Lake. The present minor variance application, along with a scoped Hydrogeological Evaluation, have been submitted to propose that a secondary dwelling unit be permitted. The evaluation determined that: there is sufficient water quantity and quality available; that no significant negative impacts should occur to the adjacent waterbody (White Lake); and that the proposed development on the concerned property meets provincial criteria for septic effluent. *Criteria met*.

Zoning By-law - Section 3.34

- a. The secondary dwelling unit is proposing to be serviced by a private well and septic system, and will be accessed by a private road (Lindsay Lane). The submitted Hydrogeological Evaluation has demonstrated that the secondary dwelling unit can be adequately serviced by a well and septic system without causing any significant negative impacts. Additionally, the evaluation provides recommendations on how stormwater is to be managed on site, which will be made a condition of this variance request. No significant impacts are anticipated from a municipal road perspective, as the proposed unit will be accessed by a private road. Staff are of the opinion that there will be adequate servicing to support the secondary dwelling unit. *Criteria met*.
- b. The concerned property is 33.59 hectares in size, which meets the minimum 0.8 hectare lot area requirement. *Criteria met*.
- c. The gross floor area of the secondary dwelling unit is proposed to be 148.64 m². In contrast, the existing primary dwelling has approximately 188.59 m² of gross floor area. Therefore, the secondary dwelling unit will be smaller than the primary dwelling unit by approximately 39.95 m². *Criteria met*.
- d. As indicated in the additional sketches (see Appendix 1), the minimum side and rear yard requirements of the RU zone will be met. The secondary dwelling unit is not proposed in the minimum front yard setback of 7.5 metres. Further, the

- proposed height of 9 metres is considered appropriate, as per the explanation provided in response to the Building Department's comments. *Criteria met*.
- f. Both the proposed location of the secondary dwelling unit (see Appendix 1) and the substantial size of the property (33.59 hectares) indicate there will be adequate area available to create at least one parking space. *Criteria met.*
- g. Only one secondary dwelling unit is proposed. Criteria met.
- I. (a) As mentioned in the examination of the Official Plan policies, White Lake has not been identified as an At-Capacity lake by the Province. Therefore, this subsection does not apply.
 - (b) The present minor variance application has been submitted to request that a secondary dwelling unit be permitted on the property known as 101 Lindsay Lane, which is considered a waterfront lot. A scoped Hydrogeological Evaluation was submitted with the application, which was determined in the previous analysis to meet the relevant additional dwelling unit policies of the Official Plan. *Criteria met*.

Through this examination, staff have determined that all relevant criteria relating to secondary dwelling units have been met. As such, the variance is considered to have fulfilled the intent of the Official Plan and Zoning By-law.

Is the variable desirable?

The variance being sought will permit an additional dwelling unit on the subject property. This will add additional housing stock to the Township, while avoiding further division of the concerned lands.

Additionally, the submitted Hydrogeological Evaluation indicates that the property can support the proposed development without creating any significant negative impacts to White Lake or adjacent properties. Any potential impacts will be mitigated by following the recommendations of the evaluation, which will be included as conditions of this minor variance. In consideration of this information, the variance is desirable.

Is the variance minor?

As previously noted, the scoped Hydrogeological Evaluation supports the secondary dwelling unit in its proposed location on the property. There is sufficient potable groundwater supply to service the additional dwelling, and septic effluent from the proposed septic system will meet provincial standards. Again, no significant impacts are anticipated, and any potential impacts will be mitigated through the recommended conditions.

The notable lot size and abundant vegetation on the concerned lot will minimize any visual impacts to adjacent properties. Further, the proposed development will meet all vard setbacks of the RU zone. Based on these factors, the variance is considered minor.

Overall, based on the above review, it is staff's opinion that the proposed variance to permit a secondary dwelling unit on a waterfront lot at 101 Lindsay Lane 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 3.34(I)(b) of the Zoning By-law, to permit a secondary dwelling unit on a waterfront lot known municipally as 101 Lindsay Lane, subject to the following conditions:

- 1. The final landscaping at the proposed secondary dwelling unit development area should be graded such that surface water (including any eavestrough downspout discharge and sump line discharge) is not directed to or ponds around the proposed drilled well and that the proposed drilled well casing height be maintained to greater than 0.4 metres above the ground surface. The proposed drilled well for the proposed secondary dwelling unit at the site should be located up gradient of the proposed septic system leaching bed and existing septic system leaching bed at the site and meet the clearance distances to septic system leaching beds and septic tanks indicated in the most recent version of the Ontario Building Code as amended.
- 2. Consideration could be given by the site owner/site developer to the use of level 4 ("tertiary") septic treatment systems, which are indicated to produce better quality effluent, from a groundwater impact point of view.
- 3. The proposed septic system leaching bed should not be located in an area of exposed bedrock at ground surface at the site.
- 4. Future residents at the proposed secondary dwelling unit should be made aware of and refer to the Province of Ontario publication titled "Septic Smart! Understanding Your Home's Septic System (available for download at time of preparation of this letter on the Province of Ontario website, www.ontario.ca/files/2022-10/omafra-septic-smart-understanding-homewastewater-system-en-2022-10-14.pdf).
- 5. The proposed drilled well for the proposed secondary dwelling unit at the site must be constructed, as a minimum, in accordance with Ontario Regulation 903 (O.Reg 903), as amended, and constructed in accordance with the recommendations outlined below and any municipal requirements.
- 6. The steel well casing should be installed and grouted into place to a depth of at least 15 metres into sound bedrock (not weathered bedrock). The steel casing placed in the drilled hole should be pressure grouted in place for the full length of the casing. The material used to seal the annular space could consist of either a cement grout or a commercially available bentonite grout product. Cement grout mixtures should be allowed to set for a minimum 72 hours for regular cement or 24 hours for quick set cement (i.e.: high early cement) prior to advancing the well further into the bedrock. If a bentonite grout product us used, drilling need only be suspended for a few hours depending on the product used. Bentonite grout has the additional advantage of remaining flexible when set and therefore should not crack or shrink thereby ensuring as well as possible that surface water or shallow groundwater will not migrate along the annular space and into the well bore.

- 7. Once the steel well casing has been suitably sealed, the well should be advanced uncased in the bedrock. The proposed well may have to be drilled to a depth of up to some 48.8 metres below the ground surface (based on the sampled well depth). However, due to possible changes in topography and because it is impossible to predict with certainty the depth(s) at which water-producing factures will be encountered during drilling, the above mentioned depth of 48.8 metres below the ground surface should be considered an approximate target depth only. Drilling the proposed well to a depth significantly deeper than 48.8 metres should be avoided, if possible. Should the proposed well be drilled significantly deeper than 48.8 metres depth, then additional water quality testing and review to ensure the well water quality is in keeping with the findings of this present scoped hydrogeological evaluation is recommended.
- 8. The completed well should be development to maximize the yield. It is recommended that the newly constructed well be pumped for a minimum of 6 hours after construction to reduce turbidity levels prior to connection to the proposed additional dwelling unit water supply plumbing and well casings should be fitted with a pit less adapter to facilitate below ground plumbing and electrical connections and be completed with a vented and vermin proof well cap.
- 9. In order to encourage domestic supply well education and best management practices future residents at the proposed secondary dwelling unit at the site should be made aware of and refer to the province of Ontario web-doc-publication: https://www.ontario.ca/document/water-supplywells-requirements-and-best-practices
- 10. Future residents at the proposed secondary dwelling unit at the site should be made aware that it is considered prudent to adhere to the regulatory well maintenance requirements, general maintenance for well owners (Table 11-1: Well Maintenance Checklist Items), and well water quality laboratory testing outlined in the above mentioned province of Ontario web-doc publication.
- 11. Future residents at the proposed secondary dwelling unit at the site should be made aware that the use of a water softener for treatment of hardness may be desired based on the results of the water quality testing carried out for this present scoped hydrogeological evaluation and that the use of conventional sodium ion exchange water softeners may introduce relatively high concentrations of sodium into the drinking water, which may contribute a significant percentage to the daily sodium intake for a consumer on a sodium restricted diet. Where ion exchange water softeners are used, a separate unsoftened water supply could be used for drinking and culinary purposes.
- 12. In addition to the above mentioned recommendation (recommendation No. 11) and as per the MECP D-5-5 Guideline Document, if water softening is utilized, a warning should be registered on title with a recommendation that a separate tap, which by-passes the softener, be installed to supply unsoftened drinking water.

13. Future residents at the proposed secondary dwelling unit at the site should be made aware that the proposed drilled well should be adequately disinfected prior to domestic use and that the proposed drilled well must be accessible in perpetuity for maintenance, repair and replacement, as per O.Reg 903.

Date: January 22, 2024

Prepared by: Nicole Moore, Junior Planner

Reviewed by:

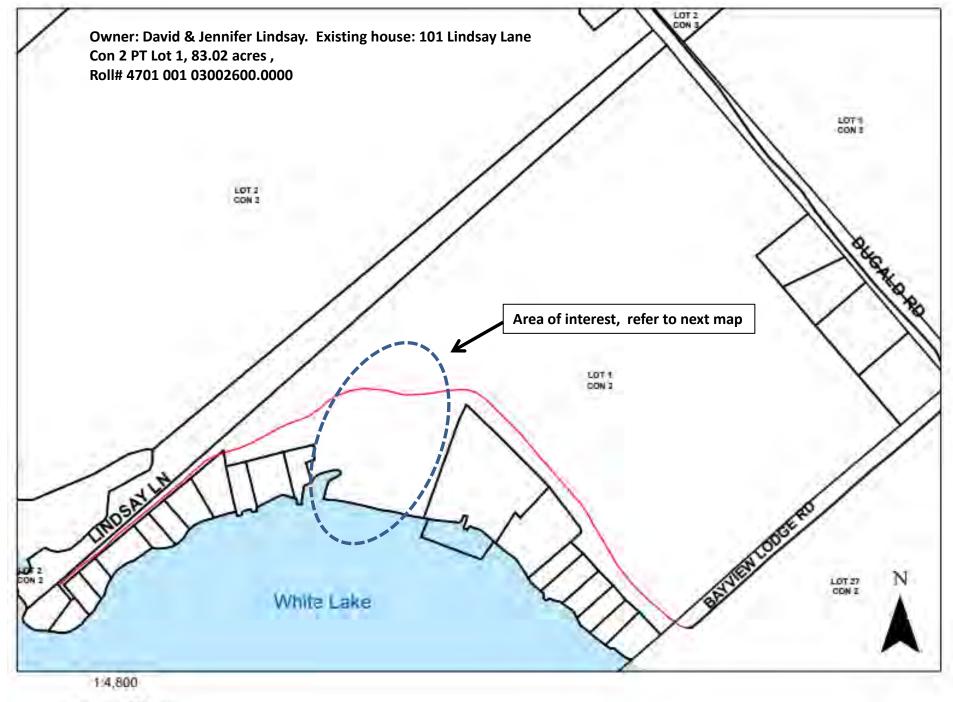
Bruce Howarth, MCIP, RPP

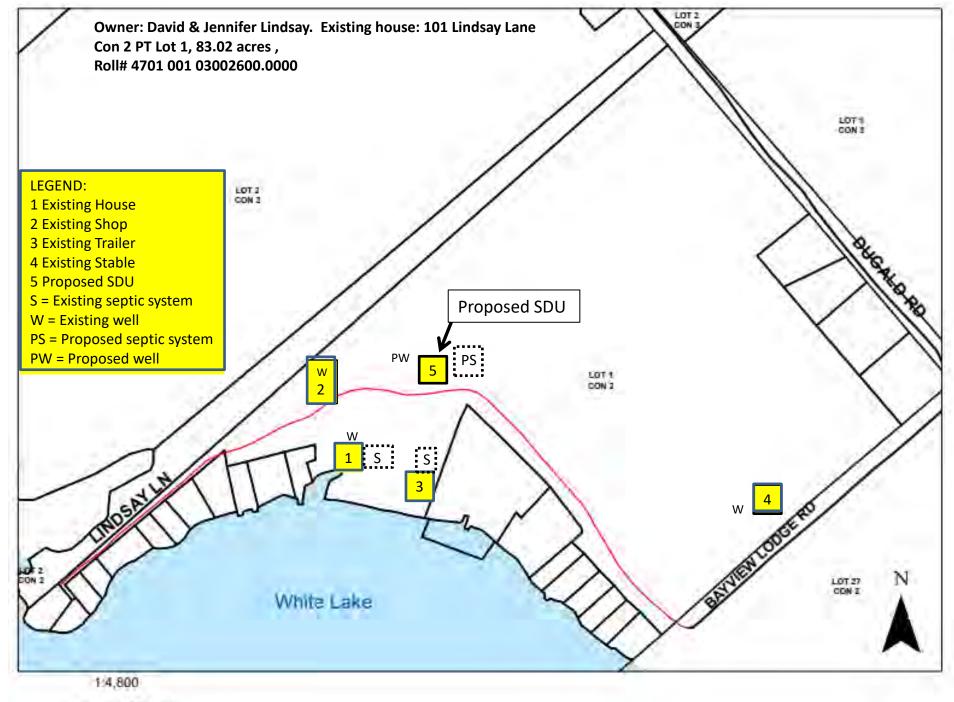
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Manager of Planning Services

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APPENDIX 1





Dec 15, 2024.



Dec 15, 2024.



Dec 15, 2024.





Dec 15, 2024.

