



**AGENDA**  
**COMMITTEE OF THE WHOLE**  
**PUBLIC WORKS/ENVIRONMENTAL SERVICES/FACILITIES**

**Monday, January 17, 2022, 6:30 PM**  
**Council Chambers and by Zoom**  
**18 Centre Street, Spencerville ON**  
**Contact the Township Office to Register**  
**(613)658-3055**

- 1. Call to Order – Chair, Councillor Cameron**
- 2. Approval of Agenda**
- 3. Disclosure of Pecuniary Interest & the General Nature Thereof**
- 4. Business Arising from Previous Committee of the Whole Meeting Minutes (if any)**
- 5. Delegations and Presentations**
- 6. Discussion Items**
  - a. UCLG - Housing Affordability Task Force Report & Action Group - Draft Response
- 7. Action/Information Items**
  - a. Application for Severance - Brouseville Rd - Zanderplan Inc./Lawless
  - b. 2021 Annual Water Reports - CWS and EDS
  - c. Draft 2022 Industrial Park Wastewater Budget
  - d. Commuter Pilot Project- River Run Update - Flag Stops
  - e. Vaccination Policy - Revision
- 8. Councillor Inquiries/Notices of Motion**
- 9. Mayor's Report**
- 10. Question Period**
- 11. Closed Session**
  - a. Section 239(2)(b) Personal matters about an identifiable individual, including municipal or local board employees; Specifically: Public Works and Minutes of Closed Session dated August 16, 2021 and November 15, 2021
- 12. Report Out of Closed Session**

## 13. Adjournment

**MINUTES**  
**COMMITTEE OF THE WHOLE**  
**PUBLIC WORKS/ENVIRONMENTAL SERVICES/FACILITIES**

**Monday, November 15, 2021, 6:30 PM**  
**Council Chambers and by Zoom**  
**18 Centre Street, Spencerville ON**  
**Contact the Township Office to Register**  
**(613)658-3055**

**PRESENT:** Councillor Hugh Cameron  
Mayor Pat Sayeau  
Deputy Mayor Tory Deschamps  
Councillor Stephen Dillabough  
Councillor John Hunter  
John Bush, Advisory Member  
Mark Packwood, Advisory Member

**STAFF:** Dave Grant, CAO  
Rebecca Williams, Clerk  
Melanie Stubbs, Treasurer  
Gord Shaw, Director of Operations  
Brian Moore, Fire Chief  
Eric Wemerman, Chief Water/Sewer Operator  
Candise Newcombe, Deputy Clerk

**1. Call to Order – Chair, Councillor Cameron**

Councillor Cameron called the meeting to order at 6:30 p.m.

**2. Approval of Agenda**

**Moved by:** Deputy Mayor Deschamps

**Seconded by:** M. Packwood

That the agenda be approved as presented.

Carried

**3. Disclosure of Pecuniary Interest & the General Nature Thereof**

None.

**4. Business Arising from Previous Committee of the Whole Meeting Minutes  
(if any)**

Members inquired if progress had been made with the tendering of the winter sidewalk maintenance in Spencerville. It was noted that staff is in the process of researching alternate options and will present a report at Thursday's budget meeting.

## **5. Delegations and Presentations**

None.

## **6. Discussion Items**

### **a. Aggregate Resources Master Plan - Follow Up**

Committee reviewed the letter and noted their contentment with the response. It was noted that while the Provincial Policy Statement required all the resources to be mapped, it did not mean all mapped resources would be designated as a resource. It was highlighted that the mapping was intended to be used as a screening tool to determine if an aggregate resource study would be required when non-aggregate uses are proposed.

Members noted that sending the motion to Counties to outline the Township's concerns was worth the effort. The intent to bring a motion forward to the Council meeting later this month was noted. Staff inquired if members were still interested in bringing the motion forward following the informational letter from UCLG. Committee noted they would like to allow the motion to be brought to Council for further discussion.

## **7. Action/Information Items**

### **a. Fire Department Bunker Gear - WIP**

Committee reviewed the report and inquired if the Fire Department took part in group purchasing as recommended in the UCLG Fire Service Review to buy equipment in bulk. It was noted that the quote received came from a group effort, however, due to discrepancies in equipment purchase timelines, each municipality placed orders for the required equipment separately.

Members highlighted the need for better coordination of ordering between fire departments in the County in order to achieve a better bulk price. Committee inquired about the amount proposed to carry forward from the 2021 budget to the 2022 budget. It was noted that there was approximately \$16,000.00 remaining in that line item.

**Moved by:** Mayor Sayeau

**Seconded by:** Councillor Dillabough

That Committee recommend that Council direct the Treasurer to place the unspent 2021 uniforms budget (21-5120) amount into the Amounts Carried Forward (01-1910) account to be used to fund part of the purchase of bunker gear in 2022.

b. Fire Department Retirement Policy

Committee reviewed the report and noted the significant impact on the health and safety of Fire Fighters exceeding 60 years of age. Members inquired how many active Fire Fighters in the Township exceed the age of 65. It was noted that there are currently four individuals over the age of 65. Committee inquired of the four, how many have expressed interest in retiring. It was noted that two of the four individuals are looking to retire, with two wanting to stay on for the foreseeable future.

Committee highlighted the sensitive topic of this issue and had a general discussion on possible alternate job options for the senior individuals of the department wishing to continue. Members noted that the outlined age of 60 indicates an apparent increase in injury or fatality and inquired if there was discussion around the implementation of retirement at the age of 60. It was noted that there was only mention of a higher age number than 65, no discussions by the group on age 60. Committee inquired if the implementation of such a policy is expected to impact department morale. It was noted that there has been no resistance received in regards to the proposed policy implementation, however, some members have expressed their disappointment.

Members had a brief discussion on the appropriateness of implementing a mandatory annual physical assessment. It was noted that the physical assessment is not only beneficial in assessing the capability of the individual, but it could also identify underlying health issues. Staff is to prepare a report in early 2022 on mandatory annual physical assessment.

**Moved by:** Councillor Hunter

**Seconded by:** M. Packwood

That Committee recommend that Council direct staff to prepare a bylaw to adopt the attached Volunteer Firefighter retirement policy.

Carried

c. Cardinal and Industrial Park Water System License and Permit Renewal – CWS and EDS

Committee reviewed the report and inquired if the calibration is performed at the facility or if the equipment is sent out. It was noted that the equipment is calibrated every 12 months by a company that visits the facility. Clarification was provided on the difference between the licence and the permit.

**Moved by:** M. Packwood

**Seconded by:** Councillor Dillabough

That Committee recommends that Council review and receive the new Municipal Drinking Water Licenses and Permits for the Cardinal and Industrial Park Water Systems.

Carried

d. 2022 Draft Spencerville Wastewater Budget

Committee reviewed the report and inquired why there was a 10% reduction in insurance costs when last year was budgeted for an increase. It was noted that actual insurance costs came in under the estimated 2021 budget. It was noted that the 2021 budget anticipated requiring \$8,465.00 to be drawn from reserve funds for the repairs required to the splitter box. The repairs to the splitter box were not complete due to the high demand for contracts and a shortage of polymer material. Members inquired if the splitter box was currently in a safe condition and if the intention was to complete the project in 2022. It was noted that the expectation is to have it completed in spring/summer 2022.

There was a general discussion on the benefits to raising the base rate. It was noted that additional contributions to the reserves would be wise with pending future infrastructure projects, highlighting the benefit of incrementally increasing the contributions and avoiding a spike in rates in the future. It was noted that \$7920.00 is anticipated to be transferred into the reserve fund. Members had a general discussion on appropriate rate increases noting the current Spencerville Wastewater reserve balance. Committee reached consensus to increase the base rate by 1%.

**Moved by:** Mayor Sayeau

**Seconded by:** M. Packwood

That Committee recommends that Council direct staff to draft a bylaw to adopt the 2022 budget estimates with a 1% increase to the base rate for the Spencerville Wastewater System.

Carried

e. 2022 Draft Cardinal Wastewater Budget

Committee reviewed the report and inquired about a \$6000.00 increase to the contract fee line item. It was noted that there are approximately 8-9 contracts that contribute to that budget line including the SCADA contract, grit removal and boiler inspection contracts. Members inquired why boiler inspections were being contracted out. Employee safety and a more comprehensive inspection program were noted as reasons for the decision to contract out. Members inquired why no base rate increase was suggested, noting the use of \$45,450.00 from the Cardinal Wastewater reserves to fund capital infrastructure renewal.

Committee highlighted the discrepancy between the anticipated \$40,000 2021 budget, the 2021 YTD actual of \$20,992.94 and the proposed 2022 budget of \$30,000.00 on line 56-5727 and inquired if the proposed \$30,000 would be sufficient. Members noted their preference to add a 1% increase to the base rate in addition to the proposed \$1.00 per month per unit capital levy increase. It was noted that adding a percentage increase to the base rate will yield minimal revenue from general users, however, commercial users will experience a more significant increase. There was a brief discussion on the effects of the added expenses to commercial users following the pandemic.

**Moved by:** Councillor Dillabough

**Seconded by:** M. Packwood

That Committee recommend that Council direct staff to draft a bylaw to adopt the 2022 budget estimates and increase the capital levy to \$4.00 per month per unit for the Cardinal Wastewater System effective January 1, 2022.

Carried

f. 2022 Draft Cardinal Water Budget

Committee reviewed the report and noted there was no suggested increase to the base rate. It was noted that based on consumption data, an increase in revenue is expected, therefore there was no recommendation made for an increase.

Members highlighted the significant cost of living increase anticipated in 2022 noting that if this occurs the 5-year average is no longer applicable. Committee noted that if the ICIP Green Stream grant is approved, the Township will then be responsible for the remaining 26% of the funding for the project and effectively depleting the reserve fund. Members noted that often large projects such as this are done in phases, with the 26% contribution only covering phase one of the proposed project. It was noted that the grant application only encompasses the replacement of the water lines. Due to deteriorating sewer line infrastructure, the replacement of the system will be coordinated with the replacement of the water lines. The Township will have to incur all costs for the replacement of deteriorating sewer lines. There was a general discussion about what a suitable increase would be , ranging from 1-2% base rate increase and a \$1-2 capital levy increase.

That Committee recommends that Council direct staff to draft a bylaw to adopt the 2022 budget estimates for the Cardinal Water System effective January 1, 2022.

**Moved by:** Mayor Sayeau

**Seconded by:** Councillor Hunter

THAT Committee amend the bylaw to adopt the 2022 budget estimates with a \$1.00 per month per unit increase to capital levy and 2% increase to the base rate for the Cardinal Water System effective January 1, 2022.

Defeated

**Moved by:** Councillor Dillabough

**Seconded by:** Councillor Hunter

THAT Committee amend the bylaw to adopt the 2022 budget estimates with a \$2.00 per month per unit increase to capital levy for the Cardinal Water System effective January 1, 2022.

Defeated

**Moved by:** Deputy Mayor Deschamps

**Seconded by:** Councillor Dillabough

THAT Committee amend the bylaw to adopt the 2022 budget estimates with a \$1.00 per month per unit increase to the capital levy for the Cardinal Water System effective January 1, 2022.

Carried

g. 2022 Draft Low Lift Pumping Station (LLPS) Budget

Committee reviewed the report.

**Moved by:** Councillor Hunter

**Seconded by:** Councillor Dillabough

That Committee recommends that Council approve the 2022 Raw Water Supply System (LLPS) budget as presented

Carried

h. RiverRoute Transit Pilot Update

Committee reviewed the report and inquired about the original grant amount. It was noted that the grant consisted of \$25,000.00, with an agreement from the Augusta Township, the Town of Prescott and the Township of Edwardsburgh Cardinal to contribute an additional \$10,000.00 each in funding for the program. It was noted that the City of Brockville contributes hard assets such as the public bus. The start date for this program was noted to be August 30, with an estimated expenditure to date at approximately \$25,000.00. There was a brief discussion on operational timeline expectations for the project, noting the substantial expenses incurred to date. It was noted that the project was proposed as



a 6-month pilot, though the Township's resolution outlined a maximum donation of \$10,000.00. The municipalities may opt to contribute more and extend the project.

Committee discussed the various ideas for future permanent funding that were outlined in the report. It was noted that the Federal Gas Tax Fund was presented as one option, noting that a report will be presented to Committee in the new year to further discuss the Township's continued involvement in the project.

Members made note that rider feedback received has been generally positive.

#### **8. Councillor Inquiries/Notices of Motion**

Councillor Cameron noted his attendance at the AMO webinar on Navigating Conflict relationships as an elected official held on November 9, highlighting how beneficial he found the material. An additional course date of December 8 or 9 was noted.

#### **9. Mayor's Report**

Mayor Sayeau reported the following:

- Upcoming UCLG Economic Development Summit on Friday, November 19 at 11:00 a.m.
- Reported on St. Lawrence Corridor Economic Development Committee meeting held November 10.

#### **10. Question Period**

None.

#### **11. Closed Session**

**Moved by:** Councillor Hunter

**Seconded by:** Deputy Mayor Deschamps

That Committee proceeds into closed session at 8:18 p.m. in order to address a matter pertaining to:

- Section 239(2)(c) A Proposed or Pending Acquisition or Disposition of Land by the Municipality or Local Board: Specifically: Edwardsburgh Land Bank.
- Section 239(2)(b) Personal matters about an identifiable individual, including municipal or local board employees: Specifically: Public Works and Minutes of Closed Session dated July 19, 2021.

Carried

- a. Section 239(2)(c) A Proposed or Pending Acquisition or Disposition of Land By the Municipality or Local Board: Specifically: Edwardsburgh Land Bank
- b. Section 239(2)(b) Personal matters about an identifiable individual, including municipal or local board employees: Specifically: Public Works and Minutes of Closed Session dated July 19, 2021

**Moved by:** Deputy Mayor Deschamps

**Seconded by:** Councillor Hunter

That the closed meeting of Committee does now adjourn and the open meeting does now resume at 9:45 p.m.

Carried

## 12. Report Out of Closed

Councillor Cameron reported that Committee discussed matters with respect to the Edwardsburgh Land Bank and the Public Works Department. Direction was provided to staff and the Mayor.

**Moved by:** Councillor Dillabough

**Seconded by:** Mayor Sayeau

THAT Committee receives and approves the closed session minutes dated July 19, 2021.

Carried

## 13. Adjournment

**Moved by:** Deputy Mayor Deschamps

**Seconded by:** Councillor Hunter

That Committee does now adjourn at 9:48 p.m.

Carried

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Chair

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Deputy Clerk



**TOWNSHIP OF EDWARDSBURGH CARDINAL  
DISCUSSION ITEM**

**Committee:** Committee of the Whole – Public Works, Environmental Services & Facilities

**Date:** January 17, 2022

**Department:** Administration

**Topic:** UCLG Attainable Housing Action Group – Response Letter

**Background:** The Housing Affordability Task Force Report was discussed at the Committee of the Whole – Administration and Finance on January 10, 2022. Based on the feedback received at the meeting, staff was asked to prepare and bring a draft response letter back for discussion on January 17, 2022.

The draft letter is attached, please refer to the January 10, 2022 agenda package of the Committee of the Whole – Administration and Finance for the complete Housing Affordability Task Force Report.

A handwritten signature in black ink, appearing to read 'D. Scott', written over a horizontal line.

CAO

January XX, 2022

Lesley Todd  
Interim County Clerk,  
Manager of Legislative Services

**Re: Attainable Housing Action Group**

We would like to acknowledge your correspondence package dated December 17, 2021. This correspondence package was provided to and discussed at our Committee of the Whole Administration and Finance on January 10, 2022.

First, Council wants to recognize the solid work completed by the Housing Affordability Task Force over the previous 18month period with respect to rental and home ownership initiatives and strategies in the County.

Our Council is unable to support the creation of an Attainable Housing Action Group and an Attainable Housing Coordinator position at this time. The general consensus was to allow a period of time for the Housing Affordability Task Force initiatives and strategies to be absorbed into the market and evaluated for effectiveness prior to proceeding into the next phase.

We request that Counties Council reconsiders proceeding with the creation of an Attainable Housing Action Group and an Attainable Housing Coordinator position at this time.

Sincerely,

**Committee:** Committee of the Whole – Public Works, Environmental Services, Facilities

**Date:** January 17, 2022

**Department:** Community Development

**Topic:** Application for Severance, Brouseville Rd (Zanderplan Inc. o/b Lawless)

**Purpose:** To review application for severance B-169-21 to create a new lot for residential use in the Rural Policy Area.

**Background:** An application for severance has been received for a property located on the south side of Brouseville Road, in Concession 3, part lot 24. The subject land is approximately 24 acres. It is designated Rural Policy Area in the Township's Official Plan and zoned Rural as per the current Zoning Bylaw 2012-35. There was one building on the property used for storage. This building was recently removed after the severance application was made to the Counties. The surrounding land uses appear to be mainly residential with some agricultural uses and hobby farms also nearby.

The application proposes a new lot for residential use with approximately 8.88 acres and 70m of frontage. The retained lot would have approximately 15.45 acres and 27.8m of frontage, where 70m is the minimum frontage required for a lot in the Rural zone. An application for Minor Variance (A-07-21) to permit the reduced road frontage was granted by the Committee of Adjustments on December 15, 2021.

The application is supported with the attached Planning Rationale, prepared by Zanderplan Inc., dated September 19th, 2021.

The Official Plan indicates some significant woodlands at the south end of the property. The application acknowledges evaluated wetlands on the west side of the retained parcel. The wetlands are not part of the Natural Heritage Resource Policy Area (Provincially Significant Wetlands) shown in the Official Plan. There is a drainage swale that appears to drain northwards from the wetlands on the property to the roadside ditch at Brouseville Road. Future development of the lots should address local drainage and mitigate potential drainage impacts to neighbouring properties. Staff have notified the applicant and owner that a grading and drainage plan will be required at the building permit stage.

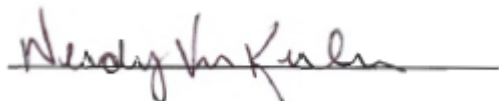
**Policy Implications:** The subject land is zoned Rural as per the Township's Zoning Bylaw and designated Rural Policy Area in the Official Plan. The Planning Rationale provided by the applicant demonstrates that the application conforms to the Provincial Policy Statement, Counties Official Plan, Township Official Plan and Zoning Bylaw.

The application for Minor Variance was reviewed by the Township's Operations Department with regard for a future entranceway where reduced road frontage is proposed on the retained lot. Through consultation with the Conservation Authority, it was noted that an access road is unlikely to exacerbate flooding and the best place for the access road would be along the property line (to the west). There are no outstanding concerns related to a future entranceway.

**Financial Considerations:** The applicant has submitted the required fee for a severance.

**Recommendation:** That Committee recommend that Council recommend in favour of severance application B-169-21, and request that the following notes are included in the severance decision:

1. A grading and drainage plan will be required at the building permit stage to mitigate potential drainage impacts to neighbouring properties.
2. An entranceway on the retained land should be located along the western property line. The access road should not be raised above the elevation of the neighbour's property to ensure that it doesn't direct water in that direction. This is to be reviewed at the time an application for entranceway permit is submitted.



Community Development Coordinator

September 19, 2021

United Counties of Leeds and Grenville  
25 Central Avenue, Suite 100  
Brockville, ON  
K6V 4N6

Township of Edwardsburgh-Cardinal  
PO Box 129  
18 Centre Street  
Spencerville, ON  
K0E 1X0

**RE: Applications for Consent and Minor Variance  
Brouseville Road  
Part of Lot 24, Concession 3  
Geographic Township of Edwardsburgh  
Township of Edwardsburgh-Cardinal  
Owner: Ryan Lawless**

To Whom it May Concern,

ZanderPlan Inc. has been retained by Ryan Lawless to assist with one Consent application and an associated Minor Variance for the creation of a new lot from the property located in Part of Lot 24, Concession 3, in the the Geographic Township of Edwardsburgh. The applicant is seeking to sever a 3.59 ha lot from the parcel for future residential uses. The property has a total area of 9.84 hectares with 97.8 metres of frontage on Brouseville Road. The Retained lands have an area of 6.2 hectares but would remain with 27.8 metres of frontage on Brouseville Road, a deficiency of 42.2 metres under current Edwardsburgh/Cardinal Zoning By-Law, therefore requiring a Minor Variance. A planning brief was requested by the Township to support the Minor Variance Application, as such this document will address the 2020 Provincial Policy Statement, the Township of Edwardsburgh Cardinal Official Plan and Zoning By-Law and the proposal's conformity to relevant policies. This report will also speak to the Minor Variance and the "four tests" of a Minor Variance.

#### **SUBJECT PROPERTY**

The subject property is located in Part of Lot 24, Concession 3 in the Geographic Township of Edwardsburgh, in an area characterized by a mix of agricultural activity, residential uses, and woodlands (See Figure 1 below). The property is largely vacant with the exception of a structure that is currently used for storage. The existing storage building would remain with the retained

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portion of the lands. The subject property contains South Nation River Conservation Authority evaluated wetlands and significant woodlands; however, these are restricted to the rear of the property. In consultation with SAR Ontario, it was determined that no environmental impact study was required to support this proposal.

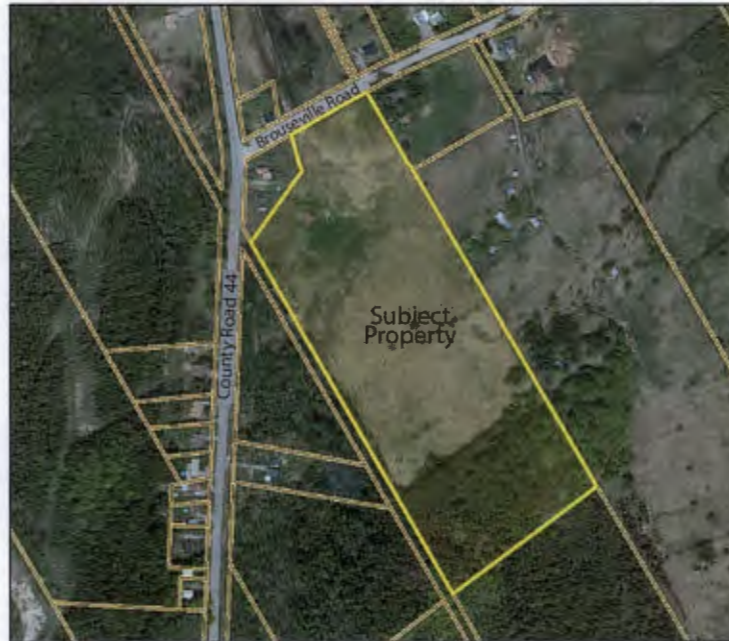


Figure 1: Aerial view of the subject property (Source: AgMaps)

## **SEVERANCE PROPOSAL AND MINOR VARIANCE**

The subject site consists of approximately 24.33 acres (98,466 m<sup>2</sup>) of land with 97.8 metres of frontage onto Brouseville Road. The proposed severance will measure approximately 3.6 hectares (8.9 ac) in size with 70 metres of frontage on Brouseville Road. The proposed severance does not encroach on the evaluated wetlands on the property. The retained lands would have a frontage of 27.8 metres, 42.2 metres short of the 70 metres required by the Township of Edwardsburgh/Cardinal Zoning By-Law. Therefore, a Minor Variance will also be required, as shown in the sketch provided by ZanderPlan.

## **SURROUNDING CONTEXT**

The subject property is located in the Geographic Township of Edwardsburgh, approximately 1.2 km east of Highway 416. The area to the north of the subject property is characterized by residential lots, forested land and few agricultural fields. Lands to the east are characterized primarily by large parcels containing woodland and wetland. There are two neighbouring parcels to the east, one has several storage buildings at the northern end of the property and is largely cleared with the exception of the rear of the property, the other is much smaller and contains a



single detached dwelling. Lands to the south consist of large parcels containing wooded areas and wetlands. Lands to the west consist of large, wooded parcels and small residential lots fronting onto County Road 44. An unopened road allowance immediately abuts the property to the west. Approximately 400 metres to the west of the subject property is a licensed mineral extraction operation. It is notable that several residential and rural lands in the area surrounding the subject property appear to have deficient frontages under the current Zoning By-Law. Two residential lots approximately 175 metres southwest of the subject site have similar sized frontages to the proposed retained lot in the Rural zone (See figure 2).



Figure 2: Deficient lot frontages along County Road 44, approximate lot frontages derived from AgMaps  
(Image Source: AgMaps)

## **PROVINCIAL POLICY STATEMENT, 2020**

The Provincial Policy Statement (PPS, 2020), created under the authority of Section 3 of the *Planning Act*, identifies matters of Provincial interest which must be considered when planning applications are filed in Ontario. Approval authorities are required to ensure that decisions on planning matters are consistent with these policies.

The following sections in the Provincial Policy Statement are relevant to the proposal. The proposed development is consistent with **Section 1.0** Building Strong Healthy Communities and policies (b) (c) (h) in **Section 1.1** as it represents an efficient use of land, will contribute to the supply of housing, and does not pose any risks. **Section 1.1.4** speaks to Rural Areas in Municipalities; the proposal is consistent with policies (d) (e) in **Section 1.1.4.1** as rural lot creation is a permitted use. The proposed development is consistent with **Section 1.1.5** in the PPS, which speaks to Rural Lands in Municipalities. The proposed severance does not meet the definition of a major facility, nor is the subject property near a major facility, remaining consistent with **Section 1.2.6** which speaks to Land Use Compatibility. **Section 1.4** speaks to Housing; the proposal is consistent with this section and policy (c) in **Section 1.4.3** as it will contribute to the

supply of housing in the Township. The proposed development is consistent with policies in **Section 1.6** which speaks to Infrastructure and Public Service Facilities as the severed and retained lands would both be developed with residential uses on private services.

**Section 2.0** of the PPS speaks to the Wise Use and Management of Resources. **Section 2.1** speaks to Natural Heritage. **Section 2.1.7** of the PPS states "Development and site alteration shall not be permitted in habitat of endangered species and threatened species, except in accordance with provincial and federal requirements." This application is for the severance of a lot and is therefore not subject to conditions under the Endangered Species Act at this stage. However, it is noted that it is the owner's responsibility to comply with the Endangered Species Act at the time of development.

**Section 2.2** speaks to water; the subject property is not within a Drinking Water Protection Zone and the large lots will be sufficient to mitigate any increased stormwater runoff from development. Both lots will be serviced with private drinking water sources. It is noted in consultation with the Township that a lot grading and drainage plan may be required at the time of development to demonstrate how stormwater runoff will be managed.

The required MDS calculations have been completed as per **Section 2.3**, which speaks to Agriculture, and the relevant setbacks are shown on the enclosed sketch. **Section 2.4** speaks to Minerals and Petroleum; there are no known mineral or petroleum resources located on or near the subject site. **Section 2.5** speaks to Mineral Aggregate Resources the proposal is consistent with **Section 2.5.2.4** as it will not hinder the expansion or continued use of the extraction operation. **Section 2.6** speaks to Cultural Heritage and Archaeology. There are no known cultural heritage or archaeological resources located on or within proximity to the site.

**Section 3.0** of the PPS speaks to Protecting Public Health and Safety, and in particular to Natural Hazards such as floodplains and hazard lands at **Section 3.1**, and Human Made Hazards such as mine hazards, and oil and gas hazards at **Section 3.2**. There are no known natural or human made hazards on or within proximity to the site.

Overall, the proposed severance and associated minor variance to recognize the undersized frontage on the retained lot would be consistent with the policies of the Provincial Policy Statement (PPS) 2020.

## **UNITED COUNTIES OF LEEDS AND GRENVILLE OFFICIAL PLAN**

The subject property falls within the Rural Lands designation of the United Counties of Leeds and Grenville Official Plan. **Section 3.0** of the Official Plan speaks to Rural Areas within the County. **Section 3.3** of the Official Plan speaks to the Rural Lands designation, the proposal can be seen to be consistent with the objectives outlined in this section as rural residential land uses are permitted. The proposal is considered a permitted use in the Rural Lands designation and is consistent with **Section 3.3.3** Land Use Policies. **Section 6.0** speaks to Transportation,

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Infrastructure, and Servicing, under Section 3.3.3 (c) development in rural lands will be subject to policies of Section 6.3, with respect to servicing. The site will be serviced with individual wells and septic systems. The proposal is consistent with objectives and policies set out in this section. The proposed severance and associated minor variance would meet the intent of the Official Plan policies.

## **TOWNSHIP OF EDWARDSBURGH CARDINAL OFFICIAL PLAN**

The subject property lies within the Rural Policy Area in the Township of Edwardsburgh Cardinal Official Plan. **Section 3.4** of the Official Plan outlines objectives and policies for the Rural Policy Area. Within the Rural Policy Area, the intent of this Official Plan is not to prohibit residential development but rather preserve the identity and character of the rural landscape. The proposed severance will leave the retained lot with a deficient frontage. However, it is not out of character in the surrounding area, as several nearby residential lots have similar frontage to what is being proposed. It is notable that, while the retained lands would have a deficient lot frontage, the parcel of land widens out significantly after the first 45 metres, opening up to a very large development envelope and an overall lot area of more than six hectares. Additionally, the neighbouring farm has an extremely deficient frontage onto Brouseville Road, with a frontage of approximately 10 metres.

With several properties in the immediate area of the subject property having deficient frontages according to the current Zoning By-Law, small frontages can be seen to be part of the rural character of this area. The proposal is consistent with policies set out in **Section 3.4.2. Section 6.17.5** of the Official Plan speaks to Significant Woodlands. The proposed severances allow for sufficient buildable area outside of the 120-metre zone considered “adjacent” to the significant woodlands located at the rear of the property. **Section 7.1** speaks to Land division within the Township. **Policy 7.1.1.1** states that “The frontage, size and shape of any lot created shall be appropriate for the proposed use and conform to the provisions of the Zoning By-law”. The proposal does not conform to the frontage provisions of the Zoning By-Law. However, the size and shape of the lot are appropriate for the proposed residential use in this context. There is sufficient area suitable for development that conforms to remaining relevant policies set out in the Zoning By-Law, thereby conforming to the policies set out in Section 7.1.

## **TOWNSHIP OF EDWARDSBURGH/CARDINAL ZONING BY-LAW NO. 2012-35**

The subject property is zoned Rural (RU) in the Township of Edwardsburgh Cardinal Zoning By-Law No. 2012-35. Surrounding properties are zoned Rural (RU) Environmental Protection – Wetland (EPW), and Highway Commercial (HC). **Section 4.15** of the Zoning By-Law speaks to frontage on a public street; the proposed development will be seeking a minor variance to allow deficient lot frontage. If the minor variance is granted, the proposed development would be seen to comply with Sec. 4.15 (a). **Section 10.1** of the Zoning By-Law speaks to Rural Zones in the Township. The entire subject property is zoned Rural (RU). Section 10.1 (b) [iii] outlines minimum requirements

for the proposed lots. The proposed development will conform to all provisions in this section aside from the minimum lot frontage requirement of 70 metres.

## **MINOR VARIANCE**

**Section 45 (1)** of the *Planning Act* speaks to the Minor Variance process. The Committee of Adjustment may authorize a minor variance from the provisions of the Zoning By-law if, in the Committee's opinion, the application is minor in nature, is desirable for the appropriate development of the lands in question, conforms to the general intent of the Zoning By-law, and conforms to the general intent of the Official Plan. These are referred to as "the four tests" of a Minor Variance.

The proposed reduction in lot frontage along Brouseville Road is minor in nature. The proposed severance will see the retained lands have a lot frontage deficiency of 42.2 metres. However, the impact this reduction will have can be considered minor, as there is sufficient room on the retained parcel for a driveway and a dwelling as the parcel begins to widen from its shortest width at Brouseville Road. At more than six hectares, with a width of approximately 132 metres once the property widens out, any dwelling on the property will be set back significantly from the travelled roadway where the parcel widens out, thereby reducing its visibility from the roadway.

The proposed severance is desirable for the development of the land as it will fit in with the character of the area and allow for the creation of two rural residential lots of substantial size. The severance is proposed near the intersection of County Road 44 and Brouseville Road, known as Crystal Rock. This area is characterized by single detached dwellings, agricultural uses, and forested areas. Several residential properties along County Road 44 have similar deficient frontages onto Brouseville Road under the current zoning. The neighbouring agricultural property has a smaller frontage on Brouseville Road than what is being proposed in this application. In addition to the deficient frontage, this neighbouring parcel has a dwelling built away from the road and behind an existing severance along County Road 44, much like what will be developed on the retained parcel. The proposed severance will not negatively impact the natural features on the property, and there is sufficient room for future development outside the 120-metre buffer zone for significant woodlands and the SNRCA evaluated wetlands. No negative impacts on surrounding land uses are anticipated by the development.

The proposed severance conforms to the general intent of the Township of Edwardsburgh Cardinal's Official Plan. The proposal conforms with the Council's vision for Edwardsburgh Cardinal as well as the guiding principles by ensuring the natural heritage features at the rear of the property are preserved while contributing to the mix of residential dwellings in the rural area. The subject property is designated under the Rural Policy Area in the Official Plan. The proposal meets all requirements and conforms to the goals and objectives set out in the Rural Policy Area. The proposal conforms to the general policies set out in Section 7.1 to allow lots to be created by severance.



Your rural land planning experts

The proposed severance conforms to the general intent on the Township's Zoning By-Law . The entire property is zoned Rural (RU). Under the Rural zoning designation, single detached dwellings are a permitted use. The proposed retained lot will have excess room on the site to accommodate future development that can far exceed the minimum requirement of the RU zone, and the lot area will also exceed the minimum requirement. With the exception of the reduced frontage the proposed severances will meet/exceed all of the Zone requirements of the RU zone.

#### **SUMMARY**

The property owner is proposing to sever an existing 98,466 square metre parcel, leaving approximately 62,513 square metres of retained land with the existing storage building. The proposed severance will result in a retained parcel with a deficient lot frontage on Brouseville Road of 42.2 meters, thereby requiring a concurrent Minor Variance. The subject property falls under the Rural Policy Area in the Township of Edwardsburgh Cardinal's Official Plan, and the entire subject property is zoned Rural (RU). The proposal meets the "four tests" of a Minor Variance application and the general intent of the Official Plan, complies with the Township's Zoning By-Law, and is consistent with the 2020 Provincial Policy Statement.

Should you have any further questions please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in blue ink that reads 'Tracy Zander'.

Tracy Zander, M.Pl, MCIP, RPP

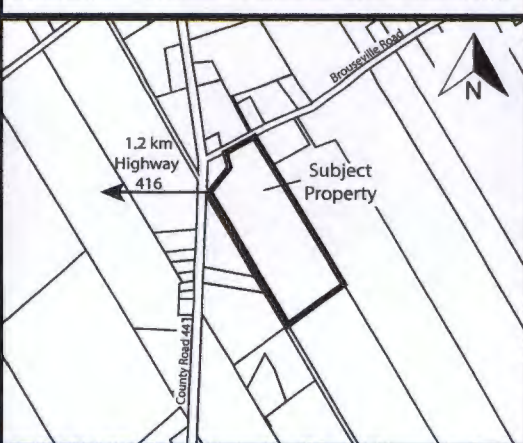
A handwritten signature in black ink that appears to read 'Matthew Lauzon'.

Matthew Lauzon, M.Pl



# Lawless Severance Sketch

Brouseville Road  
Part Lot 24, Concession 3  
Geographic Township of Edwardsburgh  
Township of Edwardsburgh Cardinal  
United Counties of Leeds and Grenville



- Legend**
- SNRCA Evaluated Wetlands
  - Significant Woodlands
  - Watercourse
  - Hydro Wires
  - Utility Poles

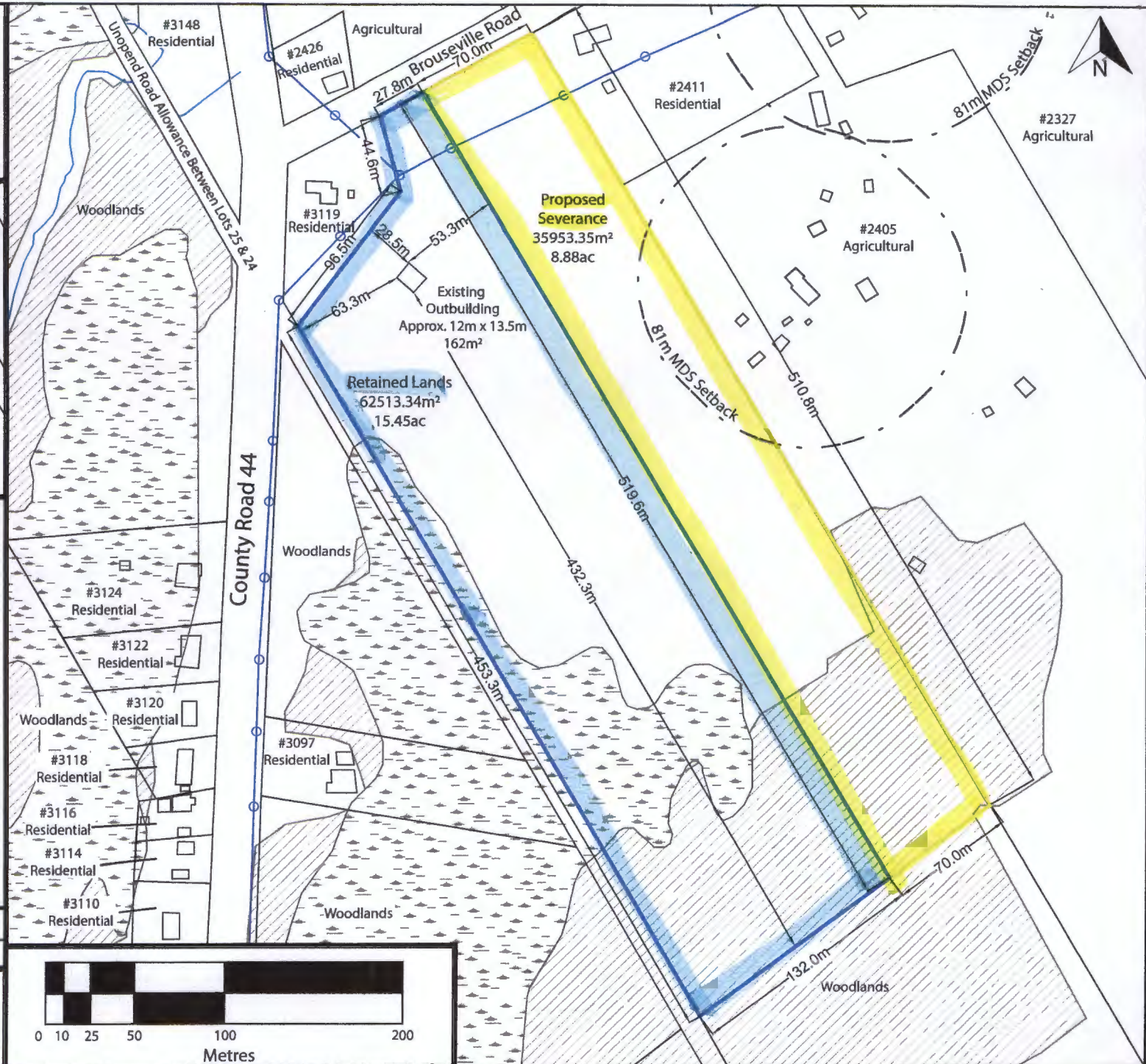
**Notes**

1. Boundary and dimensions of subject property are approximate and not based off plan of survey.
2. Locations of Evaluated wetlands and watercourses are approximate and derived from SNRCA Online GIS mapping.
3. Location of Significant Woodlands are approximate and derived from Edwardsburgh Cardinal Official Plan Schedule B.

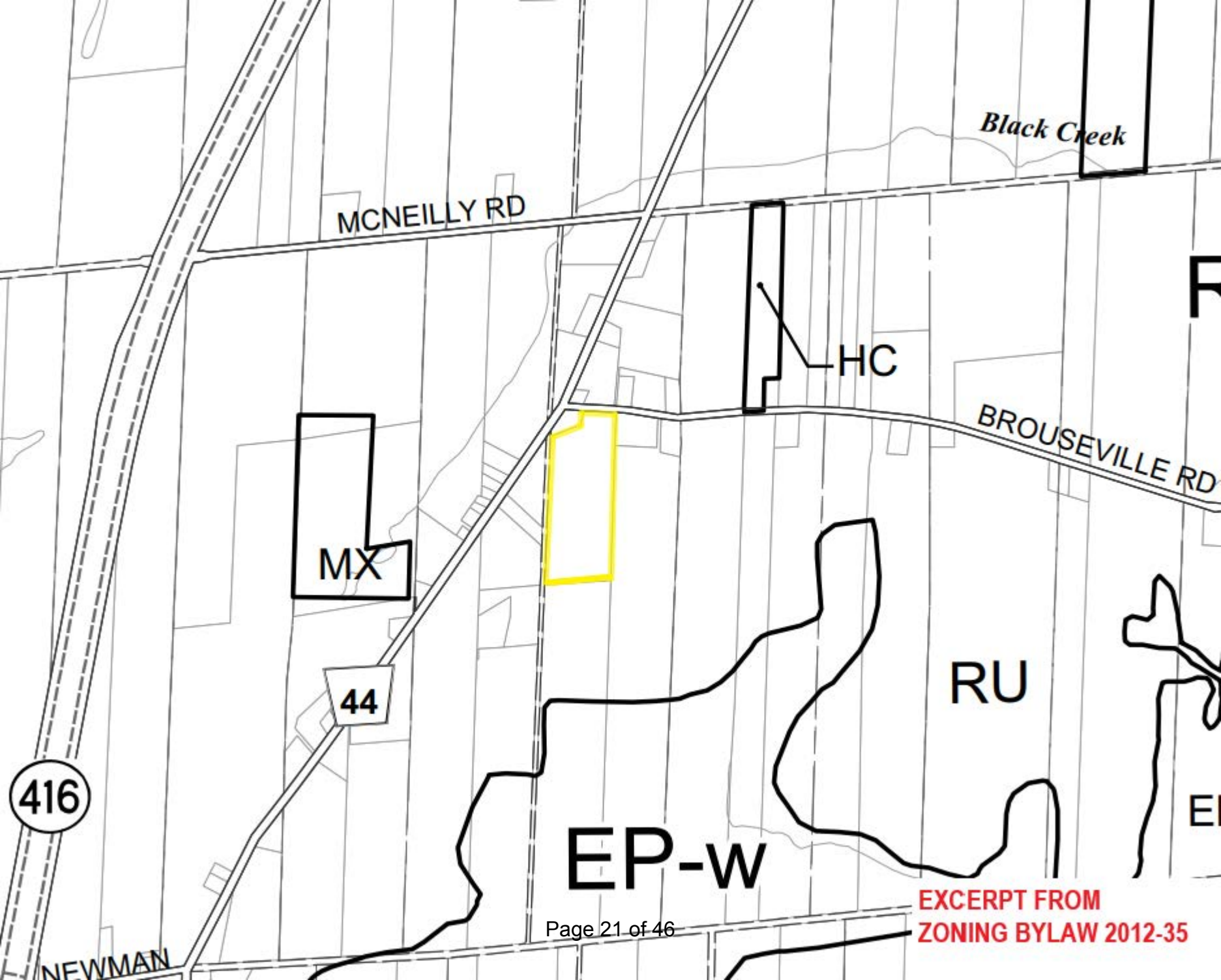
Version Date: October 04, 2021

File No. 21-207 Drawn By: ML

**ZANDERPLAN**  
Your rural land planning experts  
40 Sunset Boulevard, Unit 40, Perth, ON K7H 2Y4 613-264-9600







MCNEILLY RD

Black Creek

HC

BROUSEVILLE RD

MX

44

RU

EP-W

416

NEWMAN

McNeilly Road

Brou

P





## TOWNSHIP OF EDWARDSBURGH CARDINAL ACTION ITEM

**Committee:** Public Works, Environmental Services & Facilities

**Date:** January 17, 2022

**Department:** Environmental Services

**Topic:** 2021 Annual Water Reports- CWS and EDS

**Purpose:** To receive and make available the annual reports for the Cardinal and Edwardsburgh Industrial Park water systems.

**Background:** Owners of municipal drinking water systems are required to ensure that annual reports are prepared in accordance with the conditions set out in Section 11 of O. Reg. 170/03 by February 28<sup>th</sup> of the following year. The owner must also take effective steps to notify the users of the systems when and where a copy of the report can be viewed or received, upon request, at no cost to the user.

A local newspaper ad and social media feeds are used to advise system users of report availability. An electronic copy of the reports are placed on the Township website for viewing purposes

**Policy Implications:** A requirement under Ontario Regulation 170/03.

**Financial Considerations:** Newspaper advertising cost.

**Recommendation:** That Committee recommends that Council:

- 1) Receive the 2021 Annual Water Reports for the CWS and EDS; and
- 2) Direct staff to post the Annual Water Reports to Township website; and
- 3) Direct staff to notify users via social media and newspaper of report availability.

A handwritten signature in blue ink, reading 'Eric Wenevman'.

Chief Water/Sewer Operator

A handwritten signature in blue ink, reading 'Gordon'.

Director of Operations



**OPTIONAL ANNUAL REPORT TEMPLATE**

Drinking-Water System Number:	220003582
Drinking-Water System Name:	Cardinal Water System
Drinking-Water System Owner:	Township of Edwardsburgh Cardinal
Drinking-Water System Category:	Large Municipal, Residential
Period being reported:	January 1, 2021 to December 31, 2021

<b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b>	<b><u>Complete for all other Categories.</u></b>
<p>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [ X ]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [ X ] No [ ]</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection:</p> <div><p>Cardinal Wastewater Treatment Plant 4000 John St Cardinal, Ontario K0E 1E0</p></div>	<p>Number of Designated Facilities served: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</p>

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?  
Yes [ ] No [ ]



Indicate how you notified system users that your annual report is available, and is free of charge.

- ☒ Public access/notice via the web
- ☐ Public access/notice via Government Office
- ☒ Public access/notice via a newspaper
- ☐ Public access/notice via Public Request
- ☐ Public access/notice via a Public Library
- ☐ Public access/notice via other method \_\_\_\_\_

## Describe your Drinking-Water System

This is a surface water treatment plant that receives its source water supply from the St. Lawrence River. Treatment consists of pre-chlorination, basket screens, chemically assisted coagulation and flocculation, 4 rapid dual media filters (anthracite coal and sand) for physical removal of turbidity, ultraviolet irradiation (primary disinfection) followed by post chlorination (secondary disinfection). Parameters such as UV intensity, chlorine residual, pH, filter and potable turbidity are continuously monitored. All process and security alarms are monitored 24/7 by Falcon Security. The distribution system includes an elevated storage tank, 6 sample stations, 82 hydrants and a mix of distribution material piping.

List all water treatment chemicals used over this reporting period:

Sodium Hypochlorite – ANSI/NSF 60  
SternPAC (Aluminum chloride hydroxide sulphate) –ANSI/NSF 60

Were any significant expenses incurred to?

- ☒ Install required equipment
- ☒ Repair required equipment
- ☒ Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

Annual inspection of chlorine injection ring and raw intake structure.  
Semi-annual servicing of Trojan UV Swift 12.  
Semi-annual servicing of backup generator.  
Annual backflow testing.  
Annual servicing and calibration of lab equipment/portable chlorine analyzers.  
Semi-annual servicing of SCADA systems.  
Annual servicing of fire alarm system.  
Installed a new Golden Anderson Pump Director.  
Fall arrest system replaced and upgraded in the Cardinal Water Tower.  
Replaced Filter 2B turbidity analyzer and backwash valves.  
Replaced media in filter 1A.  
Replaced two UV lamps.  
Purchased two spare dosimeter boards for UV Systems.



Replaced chlorine transfer pump.  
Upgraded the Falcon Security communicator system.  
Replaced pH probes in clearwell and post chlorine analyzers.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre:

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
N/A	N/A	N/A	N/A	N/A	N/A

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period:

	Number of Samples	Range of E.Coli Or Fecal Results (min )-(max)	Range of Total Coliform Results (min )-(max)	Number of HPC Samples	Range of HPC Results (min )-(max)
Raw	52	0 – 17	0 - 53	N/A	N/A
Treated	52	0 - 0	0 - 0	52	<2 - 2
Distribution	156	0 - 0	0 - 0	156	<2 - 500

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report:

Parameter	Number of Grab Samples	Range of Results (min #)-(max #)
<b>Potable Turbidity</b>		
Continuous	8760	0.07 – 0.18
Grab	365	0.05 - 0.18
<b>Filter 1A Turbidity</b>		
Continuous	8760	0.01 – 0.20
Grab	724	0.05 – 0.13
<b>Filter 1B Turbidity</b>		
Continuous	8760	0.01 – 0.13
Grab	730	0.04 - 0.16
<b>Filter 2A Turbidity</b>		
Continuous	8760	0.05 – 0.40
Grab	730	0.04 - 0.18
<b>Filter 2B Turbidity</b>		
Continuous	8760	0.01 – 0.27
Grab	729	0.04 - 0.21

**NOTE:** For continuous monitors use 8760 as the number of samples.



Chlorine (Primary)		
Continuous	8760	0.36 -2.96
Grab	730	0.4 - 3.1
Chlorine(Point of Entry)		
Continuous	8760	0.98 – 4.05
Grab	730	1.7 – 3.3
Chlorine(Distribution)		
Grab: Free:	826	0.40 – 2.20
Total:	730	0.60 - 2.20
UV Disinfection	8760	0.40 – 73.63
Fluoride	N/A	N/A

**NOTE:** Units of measures include:

Chlorine – mg/L

Turbidity – NTU

UV – mj/cm<sup>2</sup>

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A	N/A	N/A	N/A	N/A

Summary of Inorganic parameters tested during this reporting period or the most recent sample results:

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Antimony</b>	Oct 12, 2021	0.0001	mg/L	No
<b>Arsenic</b>	Oct 12, 2021	0.0006	mg/L	No
<b>Barium</b>	Oct 5, 2021	0.022	mg/L	No
<b>Boron</b>	Oct 5, 2021	0.021	mg/L	No
<b>Cadmium</b>	Oct 12, 2021	<0.000015	mg/L	No
<b>Chromium</b>	Oct 5, 2021	< 0.002	mg/L	No
<b>*Lead</b>	Jan 4, 2021	<0.00002	mg/L	No
<b>Mercury</b>	Oct 8, 2021	<0.00002	mg/L	No
<b>Selenium</b>	Oct 12, 2021	<0.001	mg/L	No
<b>Sodium</b>	Nov 1, 2021	19.7	mg/L	No
<b>Uranium</b>	Oct 12, 2021	0.00016	mg/L	No
<b>Fluoride</b>	Dec 6, 2021	0.2	mg/L	No
<b>Nitrite</b>	Dec 6, 2021	<0.1	mg/L	No
<b>Nitrate</b>	Dec 6, 2021	0.2	mg/L	No

\*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

**Summary of lead testing under Schedule 15.1 during this reporting period**

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (mg/L) (min) – (max)	Number of Exceedances
Plumbing	N/A	N/A	N/A
Distribution	4	0.00009-0.00017	0

**Summary of Organic parameters sampled during this reporting period or the most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Oct 15, 2021	< 0.3	ug/L	No
Atrazine + N-dealkylated metabolites	Oct 15, 2021	< 0.6	ug/L	No
Azinphos-methyl	Oct 15, 2021	< 0.1	ug/L	No
Benzene	Oct 12, 2021	< 0.5	ug/L	No
Benzo(a)pyrene	Oct 15, 2021	< 0.006	ug/L	No
Bromoxynil	Oct 15, 2021	< 0.5	ug/L	No
Carbaryl	Oct 15, 2021	< 3	ug/L	No
Carbofuran	Oct 15, 2021	< 1	ug/L	No
Carbon Tetrachloride	Oct 12, 2021	< 0.2	ug/L	No
Chlorpyrifos	Oct 15, 2021	< 0.6	ug/L	No
Diazinon	Oct 15, 2021	< 1	ug/L	No
Dicamba	Oct 15, 2021	< 10	ug/L	No
1,2-Dichlorobenzene	Oct 12, 2021	< 0.5	ug/L	No
1,4-Dichlorobenzene	Oct 12, 2021	< 0.5	ug/L	No
1,2-Dichloroethane	Oct 12, 2021	< 5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Oct 12, 2021	< 0.5	ug/L	No
Dichloromethane	Oct 12, 2021	< 5	ug/L	No
2-4 Dichlorophenol	Oct 15, 2021	< 0.2	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Oct 15, 2021	< 10	ug/L	No
Diclofop-methyl	Oct 15, 2021	< 0.9	ug/L	No
Dimethoate	Oct 15, 2021	< 1	ug/L	No
Diquat	Oct 15, 2021	< 5	ug/L	No
Diuron	Oct 15, 2021	< 5	ug/L	No
Glyphosate	Oct 14, 2021	< 25	ug/L	No
Malathion	Oct 15, 2021	< 6	ug/L	No
MCPA	Oct 18, 2021	< 10	Ug/L	No
Metolachlor	Oct 15, 2021	< 3	ug/L	No
Metribuzin	Oct 15, 2021	< 3	ug/L	No
Monochlorobenzene	Oct 12, 2021	< 0.5	ug/L	No



<b>Paraquat</b>	Oct 15, 2021	< 1	ug/L	No
<b>Pentachlorophenol</b>	Oct 15, 2021	< 0.2	ug/L	No
<b>Phorate</b>	Oct 15, 2021	< 0.3	ug/L	No
<b>Picloram</b>	Oct 15, 2021	< 15	ug/L	No
<b>Polychlorinated Biphenyls(PCB)</b>	Oct 15, 2021	< 0.05	ug/L	No
<b>Prometryne</b>	Oct 15, 2021	< 0.1	ug/L	No
<b>Simazine</b>	Oct 15, 2021	< 0.6	ug/L	No
<b>THM</b> (Running Annual average)	2021	70.75	ug/L	No
<b>HAA</b> (Running annual average)	2021	33.5	ug/L	No
<b>Terbufos</b>	Oct 15, 2021	< 0.5	ug/L	No
<b>Tetrachloroethylene</b>	Oct 12, 2021	< 0.5	ug/L	No
<b>2,3,4,6-Tetrachlorophenol</b>	Oct 15, 2021	< 0.2	ug/L	No
<b>Triallate</b>	Oct 15, 2021	< 10	ug/L	No
<b>Trichloroethylene</b>	Oct 12, 2021	< 0.5	ug/L	No
<b>2,4,6-Trichlorophenol</b>	Oct 15, 2021	< 0.2	ug/L	No
<b>Trifluralin</b>	Oct 15, 2021	< 0.6	ug/L	No
<b>Vinyl Chloride</b>	Oct 12, 2021	< 0.2	ug/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample



**OPTIONAL ANNUAL REPORT TEMPLATE**

Drinking-Water System Number:	260005112
Drinking-Water System Name:	Edwardsburgh Industrial Park Distribution System
Drinking-Water System Owner:	Township of Edwardsburgh Cardinal
Drinking-Water System Category:	Small Municipal Residential
Period being reported:	January 1, 2021 to December 31, 2021

**Complete if your Category is Large  
Municipal Residential or Small  
Municipal Residential**

Does your Drinking-Water System serve more than 10,000 people?

Yes [ ] No [ X ]

Is your annual report available to the public at no charge on a web site on the Internet?

Yes [ X ] No [ ]

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection:

Cardinal Wastewater Treatment Plant  
4000 John St  
Cardinal, Ontario  
K0E 1E0

**Complete for all other Categories.**

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes [ ] No [ ]

Number of Interested Authorities you report to:

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes [ ] No [ ]

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes [ ] No [ ]





# Ontario Drinking-Water Systems Regulation O. Reg. 170/03

Indicate how you notified system users that your annual report is available, and is free of charge.

☒ **Public access/notice via the web**

☐ Public access/notice via Government Office

☒ **Public access/notice via a newspaper**

☐ Public access/notice via Public Request

☐ Public access/notice via a Public Library

☐ Public access/notice via other method: \_\_\_\_\_

## Describe your Drinking-Water System

The Edwardsburgh Industrial Park distribution system receives all its treated water from the Prescott WTP. The system serves approximately 27 residences and 13 industrial/commercial establishments. The system does not provide re-chlorination and does not have a booster station. The system is comprised of approximately 3 km of Cast Iron, PVC and HDPE materials. Continuous monitoring of chlorine residual currently takes place at Prysmian Cables and hand samples are taken within every 72 hours. There are 2 isokinetic sample stations located at the north and south end of Reilly Street.

## List all water treatment chemicals used over this reporting period

N/A

## Were any significant expenses incurred to?

☐ Install required equipment

☐ Repair required equipment

☒ Replace required equipment

- One new residential water service installed in New Wexford.
- Falcon Security upgraded alarm communicator for the chlorine analyzer system.

## Please provide a brief description and a breakdown of monetary expenses incurred

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date



# Ontario Drinking-Water Systems Regulation O. Reg. 170/03

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period:

	Number of Samples	Range of E.Coli Or Fecal Results (min-max)	Range of Total Coliform Results (min-max)	Number of HPC Samples	Range of HPC Results (min-max)
<b>Raw</b>	N/A	N/A	N/A	N/A	N/A
<b>Treated</b>	N/A	N/A	N/A	N/A	N/A
<b>Distribution</b>	52	0 – 0	0 - 0	52	< 2 - 14

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min)-(max)
<b>Chlorine (Continuous)</b>	8760	0.54 - 1.68
<b>Chlorine (Grab)</b>	Free: 314 Total: 309	0.27 - 1.49 0.41 - 1.73
<b>Fluoride</b>	<b>NA</b>	<b>NA</b>

***NOTE:** For continuous monitors use 8760 as the number of samples.*

***NOTE:** Record the unit of measure if it is **not** milligrams per litre.*

**Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.**

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results:**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Antimony</b>				
<b>Arsenic</b>				
<b>Barium</b>				
<b>Boron</b>				
<b>Cadmium</b>				
<b>Chromium</b>				
<b>*Lead</b>				
<b>Mercury</b>				



Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

## Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (mg/L) (min) – (max)	Number of Exceedances
Plumbing	N/A	N/A	N/A
Distribution	2	0.00044-0.00045	0

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				



Dichloromethane				
2-4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: show latest annual average)	2021	53		
HAA (Annual Average)	2021	26.7		
Temephos				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards:

Parameter	Result Value	Unit of Measure	Date of Sample



## TOWNSHIP OF EDWARDSBURGH CARDINAL ACTION ITEM

**Committee:** Public Works, Environmental Services & Facilities

**Date:** January 17, 2022

**Department:** Finance/Environmental Services

**Topic:** Draft 2022 Industrial Park Wastewater Budget

**Purpose:** To review the 2022 budget estimates and adopt a 0.40 per m<sup>3</sup> increase to the consumption rate charges effective January 1<sup>st</sup>, 2022 for the Industrial Park Wastewater System.

**Background:** The Industrial Park sewer system is a small network consisting of (11) industrial users. The two annual expenses for this system are insurance and the Township's portion of the operating and maintenance costs at the Prescott Sewer Treatment Plant. The O&M costs make up approximately 97.5% of the annual budgeted expenses.

The joint board of the Prescott Wastewater Treatment Plant board met virtually on December 16, 2021 and reviewed the YTD 2021 budget and the draft 2022 budget. See attached report from the Town of Prescott.

**Policy Implications:** Schedule A of 2020-03 bylaw will need to be amended to reflect any changes to the user rates. Individual sewage charges to users of this system are based on the individual potable water consumption as no metering of sewage is undertaken. The assumption is that cubic meters of water in equals cubic meters of sewage out.

**Financial Considerations:** The last increase to user rates for this system was in 2020, there was no change to rates in 2021.

The 2021 budget anticipated a flow rate of 6.42%, however the actual annual flow rate was 7.42%. The total shareable amount of O&M costs for 2022 is \$1,067,585, so the Township share based on the average annual flow rate in 2021 would be \$79,214.80 which is \$7,886.00 or 11% over the 2021 budget.

Staff recommends an increase of 0.40 per m<sup>3</sup> to the consumption rate which would generate an additional \$18,637.00 in user fee revenue. This increase will assist in funding the increased operating costs and provide a larger amount to transfer into the reserve fund. The current balance in the Industrial Park Sewer Reserve Fund is

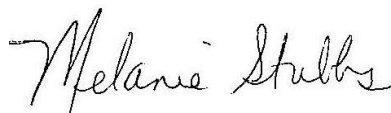
\$31,924.70. The 2021 budget had anticipated a transfer into the reserve fund of \$4,463.00, however based on the YTD financial report supplied by Prescott a transfer out of the reserve fund may be required to balance the budget.

Table 1 below provides a summary of the impact of a consumption rate increase based on the consumption of the user:

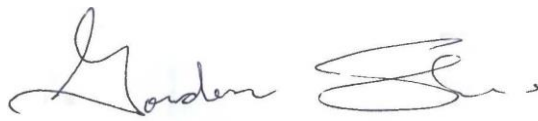
System User	Avg monthly use (m3)	Monthly Range Increase
Small	6-20	\$2.40 to \$8.00
Medium	280-500	\$112.00 to \$200.00
Large	1500-1800	\$600.00 to \$720.00

**Alternatives:** Council may consider applying an increase over a two-year period to reduce the impact. Increases may be administered at \$0.20/m<sup>3</sup> in 2022 and again in 2023.

**Recommendation:** That Committee recommends that Council:1. Increase the consumption rate by 0.40/m<sup>3</sup>; and 2. Direct staff to prepare a bylaw to adopt the 2022 budget estimates and impose rates for the users of the Industrial Park Wastewater system.



Treasurer



Director of Operations



CAO

**TOWNSHIP OF EDWARDSBURGH/CARDINAL**  
**INDUSTRIAL PARK SEWAGE BUDGET**  
For the Year 2022

	2021 Budget	2021 YTD Actual	2022 Draft Budget	Variance to 2021 Budget	%	Notes
<b>REVENUES</b>						
52-4210 - Industrial Park Wastewater Revenue	58,150.00	61,786.73	76,787.00	18,637.00	30.16	based on 2021 consumption at an increase consumption rate of 0.40/m3
52-4215 - Industrial Park Capital Levy	2,695.00	2,887.64	2,900.00	205.00	7.10	based on 2021 actual trend
52-4220 - Ind Park Wastewater Interest Revenue		33.43	40.00	40.00	119.65	
52-4299 - Industrial Park Wastewater Misc Revenue	16,979.00	16,762.99	17,601.00	622.00	3.71	as per Town of Prescott budget
<b>TOTAL REVENUES:</b>	<b>77,824.00</b>	<b>81,470.79</b>	<b>97,328.00</b>	<b>19,504.00</b>	<b>23.94</b>	
<b>EXPENSES</b>						
52-5326 - Industrial Park WWTP Contract Treatment	71,329.00		79,215.00	7,886.00		as per Town of Prescott budget O& M 2022 estimate with 7.42% share
52-5333 - Industrial Park Insurance	2,032.00	1,763.59	2,028.00	(4.00)	0.23-	15% increase over 2021 actual
<b>Total EXPENSES:</b>	<b>73,361.00</b>	<b>1,763.59</b>	<b>81,243.00</b>	<b>7,882.00</b>	<b>446.93</b>	
<b>CAPITAL</b>						
<b>Capital Expenses</b>						
52-5901 - Transfer to Reserve Fund	4,463.00		16,085.00	11,622.00		
<b>Total Capital Expenses:</b>	<b>4,463.00</b>	<b>0.00</b>	<b>16,085.00</b>	<b>11,622.00</b>	<b>0.00</b>	
<b>Total CAPITAL:</b>	<b>4,463.00</b>	<b>0.00</b>	<b>16,085.00</b>	<b>11,622.00</b>	<b>0.00</b>	
<b>TOTAL EXPENSES:</b>	<b>77,824.00</b>	<b>1,763.59</b>	<b>97,328.00</b>	<b>19,504.00</b>	<b>1105.93</b>	
<b>TOTAL INDUSTRIAL PARK SEWAGE</b>	<b>0.00</b>	<b>79,707.20</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	

	<b>2021 Budget Total</b>	<b>2021 Projection Total</b>	<b>2022 Budget Total</b>	<b>Notes</b>
<b>Revenue</b>				
Billing Revenue	1,063,389	1,059,809	1,070,407	Assumes 2% increase implemented for July 1, 2022
Edwardsburg / Cardinal Share	71,329	81,365	79,690	From Below
<b>Total Revenue</b>	<b>1,134,718</b>	<b>1,141,174</b>	<b>1,150,098</b>	
<b>Expenses</b>				
Contracted Serves	5,000	5,000	5,000	Same as 2021
Telephone & Fax	2,183	2,121	2,164	2% Increase on 2021 Projection
Property Taxes	11,215	11,181	11,405	Tied to United Counties Increase estimating 2%
EDW/C Service Fee	16,979	16,763	17,601	Tied to CPI estimated at 5%
Environmental Liability Insurance	5,861	5,805	6,564	2021 Renewal +5%
Long Term Debt Payment	343,827	343,827	343,827	Same
Sewage Plant Town Admin Allocation	66,829	66,829	70,170	Tied to EDW/C Service Fee % Increase
OCWA Contract	310,615	306,351	321,669	Tied to CPI estimated at 5%
Repairs & Maintenance	180,440	180,440	124,580	Based on Repairs and Maintenance Plan
Heat / Natural Gas	8,326	8,326	8,576	3% Increase on 2021 Projection
Hydro / Electrical Utilities	142,241	123,291	126,990	3% Increase on 2021 Projection
WWPCC Insurance	15,738	16,608	18,783	2021 Renewal +5%
Water Expense at Plant	750	3,760	750	To return to 2021 Budget
Outlet Rental Fees	495	483	483	Same
<b>Total Expenses</b>	<b>1,110,499</b>	<b>1,090,786</b>	<b>1,058,562</b>	
<b>Surplus / (Deficit)</b>	<b>24,219</b>	<b>50,388</b>	<b>91,536</b>	
Less Debt Payments	(343,827)	(343,827)	(343,827)	From above
Add Amortization Expense	343,712	343,056	352,850	
<b>Shareable Expenses</b>	<b>1,110,384</b>	<b>1,090,015</b>	<b>1,067,585</b>	
Edwardsburgh Cardinal Flow	6.42%	7.46%	7.46%	Budget Based on Flow Rates at 11 months
Prescott Flow	93.58%	92.54%	92.54%	
Edwardsburgh Cardinal Share	71,329	81,365	79,690	





## TOWNSHIP OF EDWARDSBURGH CARDINAL INFORMATION ITEM

**Committee:** Committee of the Whole – Public Works, Environmental Services & Facilities

**Date:** January 17, 2022

**Department:** Administration

**Topic:** River Route Update – Route Modifications

**Background:** The River Route Operations Committee is finalizing a few refinements to the route based on feedback and committee discussions.

### **Adjustments to Current Route**

- Departing Brockville along the 2<sup>nd</sup> concession versus County Rd 2 to Maitland
- Shifting Sarah Street stop to MERC hall in Maitland
- Addition of a stop at Cedar Street in Maitland
- Shifting James Street stop (Ingredion) to John Street (across from Anglican Church)

There are concerns from a risk management perspective on instituting a flag down the bus system throughout the route, especially along County Rd 2. However, committee has agreed to test out a flag down system in the lower speed areas (50km/h or less) along the route in Maitland, Prescott, Johnstown and Cardinal.

The large gap between Johnstown and Cardinal can be narrowed by adding stops at locations such as Grenville Park, Johnstown Motel, Blair Road and ELC automotive. The bus would only stop if there was a rider waiting at these locations.

The flag down system and the additional non-scheduled locations should not be relied upon absolute or to the same degree as the scheduled stop locations.

The adjustments are scheduled to take effect the week of January 24, 2022. An updated report on financials, ridership and survey results is planned for early February.

In closing, we would like to take this opportunity to thank the operations and marketing committees for their work to date on this project.

A handwritten signature in dark ink, appearing to read 'D. Scott', written over a horizontal line.

CAO



## TOWNSHIP OF EDWARDSBURGH CARDINAL ACTION ITEM

**Committee:** Committee of the Whole – Public Works, Environmental Services & Facilities

**Date:** January 17, 2022

**Department:** Administration

**Topic:** Vaccination Policy Revision 1

**Purpose:** To recommend the revised COVID 19 Vaccination policy to Council for adoption.

**Background:** The COVID 19 Vaccination Policy was reviewed and discussed at the Committee of the Whole – Administration & Finance on January 10, 2022. Based on the feedback received at the meeting, staff have revised the policy to incorporate a timeline for employees to be fully vaccinated and that the employer will moving forward, on an interim basis, either cover the cost of or supply the rapid antigen test kit as required at the discretion of the employer.

Members of the Committee of the Whole – Administration & Finance requested that the revised policy be placed on the January 17 meeting for final review. The revised policy is attached.

**Policy Implications:** The proposed changes have been discussed with legal. The revised policy will need to be approved by Council.

**Financial Considerations:** The municipality has access to rapid antigen test kits at either a reduced cost or at no cost depending on availability.

**Recommendation:** That Committee recommends that Council adopt the revised COVID 19 Vaccination Policy as presented.

A handwritten signature in black ink, appearing to read 'D. Scott', written over a horizontal line.

CAO

## TOWNSHIP OF EDWARDSBURGH CARDINAL

### COVID-19 Vaccination Policy Revision January 2022

#### **Purpose**

The Township of Edwardsburgh Cardinal (the “Township”) is committed to providing a safe working environment for our employees, our residents and members of the public with whom we interact with on a regular basis. The purpose of the Vaccination Policy (the “Policy”) is to provide guidelines pertaining to the expectations and requirements of individuals with respect to COVID-19 vaccination and outlining how this policy is incorporated into our overall health and safety plan.

#### **Scope**

This policy applies to any individual who is employed by or who represents the Township in any capacity, including but not limited to full-time, part-time, and temporary Township staff, volunteers and all council members.

#### **Definitions**

**Immunity\***: Protection from an infectious disease. If you are immune to a disease, you can be exposed to it without becoming infected.

**Vaccine\***: A product that stimulates a person’s immune system to produce an immunity response to a specific disease, protecting the person from that disease or reducing the severity of illness and/or the transmissibility of that disease. Vaccines are usually administered through needle injections, but can also be administered by mouth or sprayed into the nose.

**Vaccination\***: The act of introducing a vaccine into the body to produce an immunity response to a specific disease.

**Immunization\***: A process by which a person becomes protected against a disease through vaccination. This term is often used interchangeably with vaccination or inoculation.

**Individual**: Anyone who is employed by or who represents the Township in any capacity, including but not limited to full-time, part-time, and temporary Township staff, volunteers and all council members.

**Representative**: shall mean CAO or their assigned designate(s).

\*taken from Centre of Disease Control and Prevention

#### **Background**

The employer, supervisor, and employees all have obligations under the *Occupational Health and Safety Act* to maintain a safe work environment.

As the employer, we have a responsibility to protect all workers and the community in which we operate, and it is for this reason that it is critical that the Township and its staff take all precautions to protect against COVID-19.

Although being fully vaccinated does not eliminate the risk of becoming infected, it does greatly increase the ability of the body to actively respond to and reduce the severity of the infection, compared to the non-vaccinated.

The Township is actively promoting vaccination to:

- 1) Reduce employee absences due to illness; and
- 2) Ensure sustained workplace productivity; and
- 3) Keep the workforce healthy by preventing employees from getting COVID-19; and
- 4) Boost workplace morale.

Vaccination should be viewed as another layer of protection used in conjunction with and not as a substitute to primary precautionary measures.

Primary precautionary measures include good hygiene practices, physical distancing, wearing a mask when physical distancing is not possible, and staying home when feeling sick.

### **COVID-19**

COVID-19 is defined as the SARS-CoV-2 virus (severe acute respiratory syndrome coronavirus 2). As COVID-19 has spread, mutations have occurred in the virus's genetic code, resulting in several new variants of COVID-19. In this Policy, COVID-19 refers to both the initial COVID-19 virus and all of its mutations/variants.

COVID-19's incubation period is usually five to seven days but can range from one to fourteen days. Individuals may spread COVID-19 within fourteen days of contracting the virus and may develop symptoms any time within those fourteen days. Although some people may not develop symptoms (i.e., are asymptomatic), they may still spread the virus. Common symptoms of COVID-19 include the sudden onset of a high fever, chills, sore throat, fatigue, and a dry cough. These symptoms may be accompanied by other symptoms such as body aches, loss of taste and smell, and diarrhea. More serious symptoms include difficulty breathing or shortness of breath, chest pain, and loss of speech or movement. In some cases, COVID-19 can be fatal.

**The COVID-19 vaccine is one of the most effective ways to prevent transmission of and infection by COVID-19.** Canadian public health authorities have stated that vaccines are safe, have few side effects, and have a high rate of effectiveness.

### **Vaccine Requirement**

It is the policy position of the Township to require all employees to be fully vaccinated by March 31, 2022. Becoming vaccinated strongly recommend and encourage all staff to become vaccinated to help protect against COVID-19 is, as recommended by the Local Medical Officer of Health and the Chief Medical Officer of Health for the Province.

An employee who is not fully vaccinated by March 31, 2022 will be placed on an unpaid leave of absence.

In the case of an individual who has been offered the vaccine and chosen not to be vaccinated, the Township will review the information and may implement necessary actions up to and including restricting access to the workplace, placing the individual on an unpaid leave of absence, and/or modifying or terminating their contract of employment.

## **Vaccination Status**

Individuals are required to disclose the status of vaccination (full, partial, non) to their appropriate representative by September 30, 2021.

The process for disclosing and recording status is as follows:

- 1) Individual meets with the appropriate representative;
- 2) Present a valid vaccination record provided through the Ministry of Health;
- 3) Appropriate Representative completes Vaccination Status form found in schedule A of this document;
- 4) Individual and Representative sign-off on form; and
- 5) Completed form will be kept in individual's confidential human resource file.

## **Non-Vaccinated or Partial Vaccinated Testing Protocol**

Any employee who is not fully vaccinated, prior to March 31, 2022, must complete regular rapid antigen point of care testing for COVID-19, at a minimum of once every seven days or other frequency such shorter period as directed by the Township, and provide verification of the negative test result to their department manager on a weekly basis or other frequency such shorter period as directed by the Township.

The testing frequency will be based on public health and provincial guidance documents on best practices. The individual will be required to produce a negative result from a recognized and approved testing method 24 hr prior to attendance at township meetings and/or start of the workweek.

The employer will at their discretion, on an interim basis, either cover the cost of or supply the rapid antigen test kit to the employee.

## **Accommodations**

The Employer will assess any request for accommodation related to this Policy in accordance with its obligations pursuant to the *OHRC*. The Township reserves the right to request such information as it deems necessary for such purposes. Accommodation requests will be assessed on a case-by-case basis.

Employees requesting accommodation in relation to this Policy must:

1. Disclose to the Township their need for accommodation;
2. Provide the required supporting information/documentation to substantiate the reason(s) that they are unable to receive a COVID-19 vaccine; and
3. Cooperate and participate in the Employer's efforts to accommodate, including by accepting reasonable accommodation.

Any information or documentation provided during the accommodation process will be held in the strictest confidence, to be shared only on a "need to know" basis to facilitate the accommodation process.

## **Supporting Documentation**

For the purposes of this policy, required supporting documentation will be:

1. Written proof of a medical reason, provided by a physician or registered nurse practitioner that sets out:
  - a) a documented medical reason that the employee cannot be vaccinated against COVID-19; and
  - b) the effective time-period for the medical reason (i.e. permanent or time-limited).
2. Written documentation from an ordained member of the religious faith or denomination, deemed acceptable by the courts, will be required for a religious exemption.

The Township may request further information as necessary for the purposes of determining an accommodation request, including information beyond that requested in Schedule A.

### **Non-Compliance**

Individuals failing to follow this policy may be subject to disciplinary action up to and including termination of employment.

#### **Progressive Steps**

1. Education
2. Support
3. Correction
4. Discipline

### **Confidentiality**

Information relating to an individual's proof of vaccination and/or the reason(s) for not receiving a COVID-19 vaccination will remain in their confidential Human Resources file for the purposes of ensuring the safety of the Township's employees, contractors, and local communities, in the event of a COVID-19 outbreak.

### **Related Policies**

The Township and all employees shall continue to comply with all existing COVID-19 infection prevention measures in place, as amended from time to time, and this Policy shall be read in conjunction with such policies, measures, and directives.

### **COVID-19 Related Illnesses or Absences**

The same rules that apply under collective bargaining agreement and non-union personnel policy for other illnesses or absence shall apply for COVID-19 related illnesses or absences.

### **Review and Modification of Policy**

The Township will review this Policy on a regular basis and reserves the right to modify its contents at any time, based on current available public health information and recommendations, any further legislative amendments, and operational requirements.

### **Contact for Interpretation**

Contact your immediate supervisor with any questions relating to the interpretation of this policy.

See Schedule A – Township Vaccination Status Form

### Schedule A – Township Vaccination Status Form

Name: \_\_\_\_\_ Date: \_\_\_\_\_

#### Vaccination Status (please check one)

\_\_\_\_\_ Full \_\_\_\_\_ Partial (Complete Part A) \_\_\_\_\_ None (complete Part A and B, **or** C)

**Part A:** Next Scheduled Dose: \_\_\_\_\_

**Part B:** Next Scheduled Dose: \_\_\_\_\_

**Part C – Reason:** \_\_\_\_\_ medical \_\_\_\_\_ religion/creed

By signing below, I \_\_\_\_\_ (print individual name) am attesting that the information provided above is truthfully to the best of my knowledge and the organization can use this information as a valid record of my vaccination status. I acknowledge that failure to submit this form in accordance with the Policy or knowingly submitting false information on this form may result in disciplinary action up to and including termination of employment.

Individual Signature: \_\_\_\_\_

Representative Name: \_\_\_\_\_

Representative Signature: \_\_\_\_\_

**Full Vaccination:** means the individual has received (2) two doses of an approved vaccine and 14 days have passed since second dose.

**Partial Vaccination:** means the individual has received only (1) dose or (2) doses of an approved vaccine and the 14 day period has not ended.

**Non-Vaccinated:** means the individual has not received any approved vaccine doses.

#### Approved COVID-19 Vaccines

Moderna

Pfizer-BioNTech

AstraZeneca/COVISHIELD

Janssen (Johnson & Johnson)

Additional Notes:

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