

Court File No. CV-23-00001662-0000

**ONTARIO  
SUPERIOR COURT OF JUSTICE**

IN THE COURT OF THE DRAINAGE REFEREE

B E T W E E N :

CORY KITTEL

Appellant

- and -

THE CORPORATION OF THE TOWNSHIP OF WILMOT

Respondent

**AFFIDAVIT OF STEPHEN BRICKMAN**

I, Stephen Brickman, of the City of Kitchener, in the Regional Municipality of Waterloo, MAKE OATH AND SAY:

1. I am a professional engineer, President and Project manager at Headway Engineering Professional Corporation (“**Headway Engineering**”), a professional services consulting firm. The Respondent, The Corporation of the Township of Wilmot (the “**Township**”), appointed Headway Engineering as the engineer pursuant to section 8 of the *Drainage Act* (the “**Engineer**”) for the drainage works (the “**Drainage Works**”) proposed in the petition filed on behalf of Jananna Corp on April 26, 2021 (the “**Petition**”). I prepared the resulting Engineer’s Report. As such, I have knowledge of the matters hereinafter deposed to.

2. The Expert’s Report containing my opinion evidence on the issues identified by the Drainage Referee in this proceeding (the “**Expert Report**”) is attached as Exhibit “A”. My

Curriculum Vitae is attached as Exhibit "B".

**Exhibit "A": Expert Report of Stephen Brickman, dated June 19, 2024**

**Exhibit "B": Curriculum Vitae of Stephen Brickman**

3. The Expert Report accurately summarizes my work on the Drainage Works. Documents relating to that work are summarized in this affidavit.

4. The remainder of this affidavit focuses on facts and documents pertaining to the Expert's Report, which in turn focuses on the issues identified in the Reasons for Decision of April 16, 2024, at paragraph 17. Many of the allegations and characterizations contained in the affidavit sworn by Cory Kittel on April 2, 2024, are inaccurate. My affidavit does not make correction or response where inaccurate allegations and characterizations fall outside of the scope of issues in this proceeding.

### **Factual Background**

5. The Petition was filed on behalf of Jananna Corp, the registered owner of the lands known municipally as 1184 Gerber Road in the Township of Wilmot, Ontario (the "**Jananna Lands**"). The Petition is attached as Exhibit "C". The PIN map highlighting the Jananna Lands is attached as Exhibit "D", and a parcel register containing the legal description is attached as Exhibit "E".

**Exhibit "C": Petition of Jananna Corp, dated April 26, 2021**

**Exhibit "D": Property Index Map**

**Exhibit "E": Parcel Register for PIN 22176-0007**

6. The Appellant, Cory Kittel ("**Kittel**"), is a registered owner of the lands known municipally as 1010 Gerber Road in the Township of Wilmot, Ontario (the "**Kittel Lands**"), which abut the Jananna Lands to the east. A parcel register containing a legal description of the Kittel Lands is attached as Exhibit "F".

**Exhibit "F": Parcel Register for PIN 22176-0015**



7. Council accepted the Petition and appointed Headway Engineering as the engineer pursuant to section 8 of the Drainage Act. The staff report and Minutes relating to that appointment are attached as Exhibits “G” and “H”, respectively.

**Exhibit “G”: Staff Report ILS 2021-27, dated July 12, 2021**

**Exhibit “H”: Minutes of Council, dated July 12, 2021**

8. On July 22, 2021, Headway Engineering notified the Township pursuant to s. 8(2) of the *Drainage Act* that I would have charge of the project relating to the Petition. The relevant correspondence is attached as Exhibit “I”.

**Exhibit “I”: Letter of S. Brickman to T. Murray, dated July 22, 2021**

9. On August 24, 2021, after preparatory work using publicly available information, I conducted an initial site visit. My notes and photographs are attached as Exhibit “J”.

**Exhibit “J”: Notes and photographs from attendance of August 24, 2021**

10. On September 22, 2021, I provided the required notice and conducted an on-site meeting pursuant to section 9 of the *Drainage Act* to determine the area requiring drainage and whether the petition complied with section 4 of that *Act*. The Notice letter, sign-in sheet and meeting notes (with annotated watershed plan) are attached as Exhibits “K”-“M”.

**Exhibit “K”: Notice Letter of S. Brickman, dated September 8, 2021**

**Exhibit “L”: Sign-in Sheet for On-Site Meeting, dated September 22, 2021**

**Exhibit “M”: Notes from On-Site Meeting, dated September 22, 2021**

11. Following the statutory on-site meeting, I received email correspondence and conducted an email exchange with Kittel. That exchange is attached as Exhibit “N”.

**Exhibit “N”: Email exchange between S. Brickman and C. Kittel, dated September 22, 2021, exclusive of attachment**

12. I conducted further site visits on October 12 and November 10, 2021, and the resulting notes and photographs are attached as Exhibits “O” and “P”. Headway Engineering conducted a

detailed topographical survey on November 24, 2021, the photographs from which are attached as Exhibit “Q”. A further Headway Engineering survey followed on December 23, 2021

**Exhibit “O”: Notes and photographs from attendance of October 12, 2021**

**Exhibit “P”: Photographs from attendance of November 10, 2021**

**Exhibit “Q”: Survey Photographs of November 24, 2021**

13. On September 29, 2022, I provided a presentation at the Township’s public information meeting relating to the Petition. The materials displayed during the presentation were also posted in an accessible form on Headway Engineering’s website following the meeting. Those materials are attached as Exhibit “R”.

**Exhibit “R”: Public information meeting presentation, dated November 24, 2022**

14. On or about November 22, 2022, I provided a presentation at the Township’s public meeting relating to the Petition. The materials displayed during the presentation were also posted in an accessible form on Headway Engineering’s website following the meeting. Those materials are attached as Exhibit “S”.

**Exhibit “S”: Public meeting presentation, dated November 22, 2022**

15. On February 9, 2023, I conducted an in-person meeting with Kittel, discussing the purpose of the Drainage Works and the assessment schedules. The meeting notes are attached as Exhibit “T”.

**Exhibit “T”: Notes from meeting of February 9, 2023**

16. On April 28, 2023, I submitted to the Township my Report prepared in response to the Petition under the *Drainage Act* (the “**Engineer’s Report**”). The Engineer’s Report is attached as Exhibit “U”.

**Exhibit “U”: Engineer’s Report, dated April 28, 2023**

17. On June 26, 2023, I presented at a Township meeting to consider the Engineer's Report. The meeting included discussion relevant to the validity of the petition and my determination of the area requiring drainage, in particular in response to an inquiry from Councillor Steve Martin. As part of the meeting, the Acting Mayor chairing the discussion asked whether there were any petitioners who wished to add or remove their names; there were none. The materials guiding and displayed during my presentation are attached as Exhibit "V". The Minutes of the Council session are attached as Exhibit "W".

**Exhibit "V": Presentation at meeting to consider the Report, dated June 26, 2023**

**Exhibit "W": Minutes of Council meeting of June 26, 2023**

18. I make this Affidavit in support of an order dismissing this appeal proceeding, and for no other or improper purpose.

SWORN via videoconference by Stephen Brickman at the City of Kitchener, before me at the City of Waterloo, in the Province of Ontario, this 20<sup>th</sup> day of June, 2024, in accordance with O. Reg. 431/20, Administering Oath or Declaration Remotely.



\_\_\_\_\_  
A Commissioner for taking Affidavits (*or as may be*)



\_\_\_\_\_  
STEPHEN BRICKMAN

This is **EXHIBIT "A"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits



**Bamberg Creek, Jananna, and  
Koch-Leis Municipal  
Drains 2023  
Expert Report**

June 19, 2024

Prepared for:

**Wilmot** TOWNSHIP OF

Headway Engineering  
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Kitchener, Ontario  
June 19, 2024

**Re: Bamberg Creek, Jananna, and Koch-Leis Municipal Drains 2023**  
**Township of Wilmot**  
**Our Reference No. WLMT-002**

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**EXECUTIVE SUMMARY**

This expert report by Stephen Brickman, P.Eng., of Headway Engineering, delves into the specific issues posed by the Referee regarding the drainage project on the Jananna property within the Bamberg Creek and Koch-Leis Municipal Drains area. The primary focus of this analysis is on the identification of the Area Requiring Drainage (ARD), the validity of the petition, the application of specific clauses of Section 4 of the Drainage Act, and the compliance of the engineering report with subsection 8(1) of the Drainage Act.

**Key Issues Addressed:**

**Area Requiring Drainage:** The ARD is specifically identified within the Jananna property (Lot 10, Concession 3, Block B), which faces several distinct drainage challenges. External waters entering from the east and north present unique issues that necessitate management under the Drainage Act. Additionally, there is a pressing need for a legal outlet on the east side of the property, which addresses another crucial aspect of the area's drainage requirements. Moreover, an existing tiling system and the proposed West Branch drain into a maintenance-intensive system that cannot naturally improve and thus requires intervention under the Drainage Act. Neighboring properties, enhanced by natural drainage capabilities and their riparian relationship with Bamberg Creek, do not require additional Drainage Act intervention.

**Validity of the Petition:** The petition dated April 26, 2021, meets the requirements of Section 4(1)(a) and (b) of the Drainage Act. It facilitates a legally mandated investigation that revealed the necessary drainage improvements on both the east and west sides of the property. Supported by a majority of landowners within the ARD, the petition fulfills the statutory requirements for initiating drainage works, and the ensuing investigation justifies the proposed solutions as essential and compliant with the Drainage Act.

**Justification for the West Branch:** The necessity for the West Branch Drain emerges from a comprehensive analysis conducted during the Drainage Act investigation. Originally included, but not detailed in the preliminary documents, this need became evident as the assessment of water flows and maintenance requirements were revealed. The West Branch is crucial for effectively managing the drainage challenges on the west side of the property, ensuring that the entire drainage system functions efficiently. This apparent addition was always implicit in the project's scope, intended to provide a comprehensive solution to the property's drainage issues.

**Compliance with Subsection 8(1) of the Drainage Act:** The engineering report adheres strictly to subsection 8(1) of the Drainage Act, including detailed plans, profiles, specifications, and a comprehensive cost estimate for the proposed drainage works. It thoroughly assesses cost allocations among affected parcels and ensures necessary landowner allowances are



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considered, meeting all legislative requirements and ensuring the project's comprehensive legal and technical robustness.

This executive summary serves to outline the essence of the detailed report that follows, which includes in-depth analyses, discussions, and justifications for each aspect of the project. The full report ensures that stakeholders are well-informed of the technical and legal bases of the proposed drainage works, reinforcing the commitment to high standards of practice, community welfare and protecting landowner rights.



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## **1.0 INTRODUCTION**

I am Stephen Brickman, P.Eng., President, and Project Manager at Headway Engineering. I have extensive experience in carrying out the duties of the Drainage Engineer appointed on Drainage Act projects. My educational background includes a Bachelor's Degree in Civil Engineering from Lakehead University (2012), and an Advanced Diploma of Civil Engineering Technology from Conestoga College (2009), complemented by specialized training in Municipal Drainage from the Ontario Ministry of Agriculture, Food, and Rural Affairs (2010).

Throughout my career, I have been deeply involved in the planning, design, and execution of numerous drainage projects demonstrating a thorough understanding of rural and urban watershed management, hydrology, and hydraulic functions. This expertise has enabled me to develop solutions that effectively balance agricultural development needs with environmental considerations.

The purpose of this Expert Report is to provide a detailed analysis and expert opinion on the determination of the Area Requiring Drainage (ARD) for the Bamberg Creek, Jananna, and Koch-Leis Municipal Drains project. This report will address the methodologies employed in defining the ARD, assess the physical and legal considerations impacting drainage requirements, and respond to the concerns raised by the appellant regarding the project's scope and execution.

My qualifications and professional experiences underline my capacity to offer informed, accurate assessments in complex drainage matters. This report aims to clarify the technical and regulatory foundations guiding the ARD determination, ensuring a comprehensive understanding of the project's objectives and compliance with the Drainage Act.

As a licensed Professional Engineer in Ontario, my practice is governed by the highest standards of academic rigor, ethical conduct, and professional accountability. Achieving licensure signifies that an engineer has not only met stringent educational requirements but has also gained extensive experience under the mentorship of seasoned professionals, successfully passed examinations focusing on ethics and professional practice, and commits to ongoing professional development. This includes both the acquisition and dissemination of knowledge within the field, as well as adherence to annual ethics modules as part of the Professional Engineers Ontario (PEO) Practice Evaluation and Knowledge Program.

This framework ensures that licensed engineers are equipped to contribute expertly and ethically to our fields, upholding public safety and welfare in all aspects of our work. While licensure distinguishes the professional qualifications of engineers, it is with respect and acknowledgement of the expertise and roles of all individuals involved in this matter, including those without an engineering background, that this report is presented.

## **2.0 BACKGROUND INFORMATION**

### **2.1 Location**

The project is situated in the Township of Wilmot, with the proposed works located south of Regional Road 12 (Gerber Road). The liable watershed area encompasses parts of Lots 9 to 10 in Concession 3, Block B, in the Township of Wilmot, and extends into parts of Lots 6 to 8 in Concession 2, Eastern Division, as well as part of Lot 8, Concession 3, Eastern Division in



the Township of Wellesley. The nearest urban centre, Wellesley, is located less than five kilometres to the west.

## 2.2 Drainage System Overview

The Drainage system comprises four distinct features:

1. **Jananna Drain (East Branch):** Approximately 598m of concrete and HDPE pipes, generally flowing southerly to its outlet into Bamberg Creek.
2. **Jananna Drain (West Branch):** Encompassing approximately 760m concrete and HDPE pipes, this branch also flows in a southerly direction to its outlet into the Koch-Leis Drain.
3. **Koch-Leis Drain:** This open ditch spans approximately 2.3km, with proposed works focused on the lower 551m, beginning at the West Branch outlet and extending downstream to Bamberg Creek.
4. **Bamberg Creek:** This creek serves as the eventual outlet for all the proposed works included in this drainage system. Bamberg Creek stretches approximately 14km beginning near Bamberg in the Township of Wellesley, and extends downstream to its confluence with the Nith River, just upstream of Phillipsburg in the Township of Wilmot. The proposed works in Bamberg Creek include approximately 650m of open ditch cleanout, ensuring adequate depth and grade to convey flows safely.

Continuing from Bamberg Creek's outlet into the Nith River, flows continue approximately 125km downstream until reaching the Nith River's confluence with the Grand River in Paris, County of Brant. From Paris, the flows are conveyed further downstream for approximately 140km to the Grand River's outlet near Dunnville in Haldimand County, eventually discharging into Lake Erie.

## 2.3 Statute Framework and Drainage Act Requirements

This section explains the structured process mandated by the Drainage Act for the initiation, assessment, and execution of drainage projects, specifically focusing on the determination of the ARD. The following outlines key sections of the Act related to the ARD, detailing the procedural steps from petition filing to Council consideration. The content is organized in a table format, with entries listed chronologically.

Drainage Act			
Step No.	Reference	Actor/Stakeholder	Description
1	Section 4(1) and 4(2)	Petitioner	The process begins with a petitioner filing a petition, specifying an initial ARD on the prescribed form.
2	Section 5	Council	The Council's acceptance of the petition leads to the appointment of an Engineer.
3a	Section 8	Council	Council appoints an Engineer tasked with accurately determining the ARD.
3b	Section 8	Engineer	Where the appointed engineer is a corporation, then the corporation must designate the individual engineer.





4	Section 9	Engineer and Landowners in the ARD noted on the Petition	The Engineer conducts an on-site meeting. One of the purposes of the meeting being to determine the actual ARD, and to evaluate the petition's validity. If valid, an engineering report is mandated. If invalid, steps to rectify are advised.
5	Section 42	Council	The report is deliberated by the Council in a Meeting to Consider. This meeting also serves as a platform for adjustments to the petition's support, affirming its validity and the project's progression, or initiating project closure, if validity has changed.

#### 2.4 Documentation of Compliance with Drainage Act Procedures

In this section, I document the critical milestones of this project in accordance with the required steps as outlined in the Drainage Act. Each entry in the forthcoming table will correlate specific actions taken by various stakeholders with the corresponding sections of the Act, providing a timeline of how statutory obligations were met.

This documentation serves not only as a testament to the project's procedural integrity but also as a chronological account of the careful and lawful progression from the project's inception to its current status. The following table includes dates and references to official documents.

Step No.	Drainage Act Reference	Actor/Stakeholder	Description	Date Completed	Document Reference
1	Section 4(1) and 4(2)	Petitioner	Filing a petition, specifying an initial ARD.	April 26, 2021	Engineer's Productions beginning Page 76
2	Section 5	Council	Council's acceptance of the petition.	May 17, 2021	Township Productions Tab 13
3a	Section 8	Council	Appointment of the Engineer.	July 12, 2021	Engineer's Productions beginning Page 83
3b	Section 8	Engineer	Designation of the individual Engineer.	July 22, 2021	Engineer's Productions beginning Page 89
4	Section 9	Engineer and Landowners in the ARD noted on the Petition	On-Site Meeting to determine ARD and evaluate petition's validity.	September 22, 2021	Engineer's Productions beginning Page 128 & 141 & 150



5	Section 42	Council	Council's Meeting to Consider the Engineer's Report.	June 26, 2023	Township Productions Tab 181
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### **3.0 GENERAL APPROACH TO DETERMINING AN AREA REQUIRING DRAINAGE (ARD)**

#### 3.1 Evolution of Drainage Statute

The evolution of Ontario's drainage legislation has been profoundly influenced by the diverse needs of Landowners and Municipalities over nearly two centuries. From its inception with the 1835 'Act to Regulate Line Fences and Watercourses', this body of law has continually adapted providing a framework to enhance land productivity and manage water resources effectively. These early legal foundations set the stage for the drainage practise we see today.

##### Early Legislation:

As noted, in 1835, the "Act to Regulate Line Fences and Watercourses" was the first drainage statute in Ontario. This statute enabled Landowners to enhance drainage on swampy lands and recoup costs through legal means.

##### Municipal Involvement and Petitions:

By 1859, the Act Respecting the Municipal Institutions of Upper Canada enabled municipal Councils to oversee drainage installations upon receiving majority Landowner petitions, marking the beginning of municipal involvement in drainage decisions, and the petition concept.

The role of determining the area which a petition's validity is to be measured against has historically oscillated among various stakeholders, leading to confusion and inconsistent implementations in the early years. This prompted legislative refinements, notably the Ontario Drainage Act of 1868, which primarily served as a financial arm of drainage projects by bridging Landowners to financial loans. In 1869, the petition requirements of the Municipal Institutions Act were further modified by allowing non-resident owners and owners to become petitioners, whereas prior to 1869, only resident owners were allowed to be petitioners. Additional definition was added to specifically identify those listed on the last revised assessment roll. Also, in 1869, the Ontario Drainage Act adopted the petition requirement included in the Municipal Institutions Act.

In 1877, the petition requirements of the Municipal Institutions Act were revised by requiring a two-thirds majority if pumping, or other mechanical operations were required.

In 1883, the Ditches and Watercourses Act (which replaced the Line Fences and Watercourse Act in 1874) allowed for abutting landowners to enlarge or improve a drain without the need for a petition or an Engineer. If an agreement between landowners could not be reached, then an Engineer would be appointed to arbitrate an award. The following year, in 1884, this Act was amended to require that every ditch or drain that is constructed under this Act be taken to a sufficient outlet.



#### Consolidation and Modernization – 1894:

Significant confusion about who precisely should determine the area which a petition's validity is to be measured against, and who should then determine if the petition represents a majority of Owners led to the 1894 consolidation of the statute into the Municipal Drainage Act. It should be noted that other points of confusion also precipitated the production of a new piece of legislation. This Act began to shape the modern approach by emphasizing the role of professional engineers or professional Ontario Land Surveyors in assessing and reporting on drainage needs, recognizing, and attempting to ensure that decisions were grounded in technical expertise rather than administrative discretion.

It is made evident at this point in history that there were strong opinions on the need for engineering expertise. This was a very common tension throughout the development of drainage law in Ontario. The Municipal Drainage Act required an engineer, while the Ditches and Watercourses Act only required an engineer if agreement could not be met. In 1903, in an apparent attempt at compromise, the Municipal Drainage Act required 'Drainage Viewers' to be appointed to assist the Engineer with their duties throughout the reporting process. The Drainage Viewers were to be local residents in the municipality. In 1910, any mention of Drainage Viewers was expunged from the legislation.

#### Consolidation and Modernization – 1962-63:

In the early 1960s, recognizing the need for a more streamlined and unified approach to drainage legislation, the Ontario government formed a Cabinet Committee tasked with reviewing and consolidating existing laws. By 1962-1963, this committee focused on harmonizing six major pieces of legislation:

1. Municipal Drainage Act
2. Ditches and Watercourses Act
3. Interprovincial Drainage Act
4. Municipal Aid to Drainage Act
5. Provincial Aid to Drainage Act
6. Tile Drainage Act

The consolidation led to the Drainage Act, which absorbed the first five Acts listed above and retained core petition requirements similar to those in the Municipal Drainage Act. This pivotal reform aimed to simplify the legal landscape.

This legislative consolidation streamlined drainage management significantly, reducing the complexity of compliance and improving consistency across Ontario. By blending multiple acts into the Drainage Act, the government provided a clearer, more accessible framework for Municipalities and Landowners, which facilitated quicker and more equitable resolutions to drainage issues.

#### Modernization – 1975:

The Drainage Act underwent several more changes to refine the responsibilities and procedures, including the central role that engineers play in the process. In 1975, following a report prepared by the Select Committee on Land Drainage, the statute was clarified by





explicitly stating that the area requiring drainage is to be determined by the appointed engineer, as is the validity of the petition. This shift ensured that determinations were made based on technical expertise, supported by legal frameworks that allowed for an appeals process, thus maintaining a balance between professional assessment and community recourse.

Summary:

The following table summarizes some key historical moments in the evolution of the Ontario Drainage Statute with respect to petition validity.

Year	Statute	Discussion
1835	Line Fences and Watercourses Act	Initial drainage statute to construct a drainage system between properties, and a mechanism for recovering costs.
1859	Municipal Institutions Act	Municipal Council involvement in drainage decisions, and initiation by Landowner Petition.
1869	Municipal Institutions Act and Ontario Drainage Act	The Municipal Institutions Act amended the petition requirements to account for non-resident owners. The Ontario Drainage Act adopted the petition requirements noted in the Municipal Institutions Act.
1877	Municipal Institutions Act	Added an additional two-thirds criteria if the drainage solution required mechanical features like pumps.
1894	Municipal Drainage Act	Petition validity determined by Municipal Council, but upon the report of an Engineer.  This is also the first time where the petition validity was to be determined based on “area of land requiring drainage”.  This also introduced the Meeting to Consider the Report, and the mandatory step of checking the validity of the petition at this meeting.
1962-63	Drainage Act	This Act essentially adopted the same validity criteria as the Municipal Drainage Act (majority, or two-thirds majority for pump and embankment projects).
1975	Drainage Act	Petition validity revised to what we see today in Section 4: (a) majority in number, or (b) 60% in area, or (c) road authority, or (d) Director  The Engineer is explicitly assigned the responsibility to determine the Area Required Drainage (Section 9).



#### Conclusion:

The historical evolution of drainage legislation in Ontario, culminating in the comprehensive Drainage Act, highlights a deliberate progression toward more effective and equitable water management practices. This legacy of continuous refinement has ensured that modern drainage systems not only address the complex challenges of today's land use, but also uphold the principles of fairness and technical precision established over the decades. The evolution reflects a commitment to integrating professional engineering insights into public policy, which has crucially shaped the application of drainage statute today.

### 3.2 Historical Referee Decisions

In this section, I outline how historical referee decisions have influenced the technical understanding and application of the Area Requiring Drainage (ARD) and the validity of petitions within the field of Drainage Act engineering. This review traces the evolution of key concepts from the initial 'saucer' definition through the progressive inclusion of land use and legal outlet considerations, emphasizing the increasingly central role of the engineer. My focus is on demonstrating how these decisions have shaped modern engineering approaches to determining the ARD, guiding my assessments and designs.

#### Early Decisions and the "Saucer" Concept

The earliest decision I reviewed is **Duane v. Finch (1908)**. This foundational decision emphasizes the importance of accurately representing drainage areas within petitions. Referee Henderson highlighted the need for petitions to be grounded in factual, physical assessments of the land, ensuring that the described drainage area is proportionate to the planned drainage scheme.

*"It is still necessary, as it always was necessary, that the petition should describe a real drainage area, which should bear some reasonable proportion to the size and extent of the drainage scheme."- Duane v. Finch (1908), p.4.*

In my engineering assessments, this historical perspective guides the detailed field investigations I undertake to define ARDs. It ensures that the designs and recommendations I provide are not only technically sound but also appropriately scaled to the physical reality and drainage needs of the area.

In 1929, Referee Henderson introduced the concept of the ARD resembling an "irregularly shaped saucer with well-defined banks." This description was initially communicated not through formal legal decisions but in a letter to a clerk.

*"There should be what I generally speak of as an irregularly shaped saucer with reasonably well-defined banks around it."*

In my current practice, I use the concept to aid in preliminary assessments but ensure detailed technological analyses follow. This approach acknowledges the concept's historical value while ensuring that modern engineering solutions are based on comprehensive data and contemporary standards, not solely on metaphorical descriptions.



### Petition-Defined ARD Priority

The **McKeen v. East Williams (1966)** decision is an important point in the history of drainage engineering, highlighting the challenges faced when engineers propose solutions that extend beyond the areas initially petitioned. This decision illustrates the evolving understanding of the engineer's role in addressing broader water management needs, which at the time, were constrained by the parameters of the petitions.

*"The engineer may validly report a scheme which includes additional lands over and above those described in the petition. In a proper situation, the engineer's report may properly recommend a more costly scheme, even one which proceeds to a different outlet." – McKeen v. East Williams (1966), p. 10.*

*"In my view, this was not the purpose of the petition and I am not aware of any authority which would permit an engineer to substitute his views as to what is good for an area for his instruction." – McKeen v. East Williams (1966), p. 11.*

In current practice, this historical context informs a more nuanced approach where I ensure that any expansion of a project's scope is well-justified with clear technical reasoning and backed by comprehensive assessments. This ensures that while addressing broader environmental and hydrological needs, the solutions remain grounded within the permissible scope defined by regulatory and legal considerations.

### Emphasis on Physical Characteristics and Engineer's Role

The **Westendorp v. Elizabethtown (1986)** decision is notable for highlighting how engineering responsibilities in Drainage Act process have evolved due to changes in legislation. This case emphasizes the transition in responsibility for determining the ARD from local councils to engineers, reflecting a broader trend towards leveraging technical expertise in environmental management.

*"The present legislation suggests there is an area as described in the petition and further suggests there may be a second area requiring drainage as determined by the engineer, the latter to form part of his report." – Westendorp v Elizabethtown (1986) p. 5.*

*"The definition of the area requiring drainage in the Petition was often only a guess on the part of the petitioners and more importantly by the local council who had to decide if a majority had signed." – Westendorp v Elizabethtown (1986) p. 10.*

*"The major changes in the Drainage Act, R.S.O. 1970, c. 136, and the present statute I believe are the result of earlier court decisions that required the discretion of the initiating council and its continuing frustration and inability to define the area requiring drainage as described in the Petition." – Westendorp v Elizabethtown (1986) p. 10.*

This decision has significantly influenced modern engineering approaches, emphasizing the need for precise, data-driven assessments in drainage projects. It guides the development of methodologies that consider both physical geography and hydrological needs comprehensively. In my practice, this translates to conducting thorough site analyses to ensure our engineering solutions are effective and comply with current legislative standards.





The **Jones v. Derby (1986)** decision clarifies the approach for defining the Area Requiring Drainage (ARD) beyond initially petitioned areas, emphasizing the importance of consistent physical characteristics.

*"I am of the view that it is the intention of the present Drainage Act that lands not described in the petition as requiring drainage that are subsequently found to require drainage by the engineer in his report to have similar physical features so as to form one area requiring drainage within those lines described in the petition as requiring drainage." – Jones v. Derby (1986), p. 10.*

In practice, this involves thorough investigations to confirm consistency in hydrological and geographical characteristics. This ensures robust and sustainable drainage solutions that adhere to proven engineering principles.

#### Incorporation of Land Use Considerations

The **Hodgson v. Mariposa (1993)** decision underlines the importance of accounting for specific physical characteristics and land use in determining the ARD.

*"I would add that in determining the area requiring drainage that there should be some physical characteristics which is different where the proposed drains ends from that of the surrounding area. This could be the extent of the grade, the kind of cropping that is taking place in the area, or other physical characteristics." – Hodgson v. Mariposa (1993), p. 4.*

This decision directs engineers to assess land use and unique environmental characteristics, ensuring that drainage designs are optimally tailored to the specific conditions of each area.

The decision **Pannabecker v. West Wawanosh (2000)**, highlights the autonomy given to engineers in determining the ARD, asserting that their professional judgment is paramount, even when it diverges from the initial petition.

*"It is equally important to note that in the current Drainage Act the decision as to what lands are the lands 'requiring drainage' is left solely to the appointed Drainage Engineer who is available to give a professional opinion." - Pannabecker v. West Wawanosh (2000), p. 7.*

This decision highlights the importance of relying on detailed engineering assessments and land use evaluations. It supports engineers in making informed decisions based on their professional expertise, ensuring that drainage solutions are both technically sound and contextually appropriate.

In **M&M Farms v. Kingsville (2004)**, the court amended the saucer shape and emphasizes its limited relevance in modern farming and highlighting the need to consider physical characteristics, land uses, and legal outlets when determining the ARD.

*"It should be noted that statement was made by the Referee in 1929 in a period when the horse was still the primary source of energy on the farm. Farms were small, tile drainage was limited and modern contouring practices (with the use of lasers and G.P.S.) were totally unknown. It becomes harder and harder to apply the saucer concept to the context of modern farming and it has no application*



*whatsoever if the only requirement is to obtain a legal outlet when one is not available." - M&M Farms v. Kingsville (2004), p. 12.*

*"He must act professionally and honestly when confronted with modern farming methods that completely alter the landscape, creating circumstances that were never contemplated in previous generations and he must adjust to current needs to keep the Drainage Act relevant." - M&M Farms v. Kingsville (2004), p. 13.*

This decision guides engineers to adapt their methods to modern practices, incorporating advanced technologies and updated land use considerations. It reinforces the need for professional and honest assessments that account for modern landscapes, ensuring that drainage solutions remain relevant and effective.

In **Brzezka v. Niagara-on-the-Lake (2022)**, the referee upheld the determination of the ARD and the validity of the petition but noted errors in the report, instructing it to be corrected.

*"The concept of land use has emerged as well as a guide to drainage engineers...It should be noted that 'the lands requiring drainage' the decision must not only evaluate the objective physical condition of the lands in question, but also must examine the land use factors, all of which together must be weighed in determining which lands require drainage" – Brzezka v. Niagara-on-the-Lake (2022), Paragraph 75.*

This decision highlights the need for engineers to integrate land use considerations alongside physical assessments when determining an ARD. It emphasizes comprehensive evaluations that balance both environmental and land use factors to ensure accurate and effective drainage planning.

The **Melidy v. Holland Marsh (2023)** decision highlighted the necessity for meticulous and independent engineering assessments in drainage disputes. The referee found that the appointed engineer did not adequately use the information provided by the petitioner, leading to an invalid petition.

*"[The engineer] did not use the topographical data and contour map provided by [the petitioner] because he, [the engineer], had not done that topographical survey. He said he had perused the 2004 topographical information provided by [the petitioner] to the Tribunal about the elevations of the rear yard of the [neighbour's] property at 126 Ondrey Street but did not use any of that information in his determination of the area requiring drainage." – Melidy v. Holland Marsh (2023) Paragraph 48.*

*"[The engineer] made no on-site measurements to confirm the GIS information and made no inquiries of [the petitioner] about what parts of the 126 Ondrey Street rear yard were referred to by [the petitioner] when he gave evidence to the Tribunal." – Melidy v. Holland Marsh (2023) Paragraph 45.*

This decision highlights the need for engineers to conduct thorough, independent investigations and ensure that all relevant data, including historical and current conditions, are considered. It emphasizes the importance of accuracy and impartiality in engineering evaluations to support reliable legal and regulatory decisions.



Conclusion:

The evolution of referee decisions has progressively refined the criteria for determining the ARD, reflecting several key developments in drainage engineering practices and legal frameworks.

**Duane v. Finch (1908):** This early decision focused on the necessity for petitions to describe a real drainage area proportionate to the drainage scheme's size. It provided foundational guidelines emphasizing the natural topography, for defining drainage areas.

**McKeen v. East Williams (1966):** This decision highlighted the limitations of the engineer's role before the 1975 legislative changes. At that time, the petition-defined ARD carried more authority than the engineer's expanded design. It emphasizes the importance of adhering to the petition's original scope, reflecting the legislative constraints of the period.

**Westendorp v. Elizabethtown (1986):** Marking a significant shift, this decision emphasized the legislative evolution that placed the responsibility of defining the ARD onto the engineer. It reinforced the necessity of basing the ARD on physical features and acknowledged the challenges faced by local councils before the legislative changes, emphasizing the engineer's crucial role in determining the ARD.

**Jones v. Derby (1986):** This decision reaffirmed the "saucer" concept and emphasized that lands not described in the petition but found to require drainage by the engineer should have similar physical features to form a cohesive ARD. It highlighted the importance of consistent physical characteristics across the ARD.

**Hodgson v. Mariposa (1993):** The referee in this case added the consideration of land use in determining the ARD, evolving the criteria beyond just physical characteristics.

**Pannabecker v. West Wawanosh (2000):** This decision stressed that the ARD determined by the engineer can differ from the petition, highlighting the paramount importance of the engineer's professional judgment. It underscored the authority of the engineer's assessment over the initial petition descriptions.

**M&M Farms v. Kingsville (2004):** This decision marked a significant development by amending the saucer shape's applicability, incorporating modern agricultural practices, and emphasizing the necessity for legal outlets in defining the ARD. It acknowledged the need to adapt to current farming methods.

**Brzezcka v. Niagara-on-the-Lake (2022):** This decision highlighted the importance of a thorough and accurate assessment by the engineer, integrating physical characteristics and land use. It reinforced the need for comprehensive evaluations to ensure accurate and effective drainage planning.

**Melidy v. Holland Marsh (2023):** The referee in this case emphasized the importance of careful and independent engineering assessments. The decision highlighted the need for engineers to provide precise and well-supported investigations of the ARD, ensuring that evaluations are based solely on professional expertise and factual evidence.

The historical trajectory of referee decisions demonstrates an increasing complexity and sophistication in defining the ARD. The evolutions include:



- **Shift in Responsibility:** Initially, ARD determination was primarily the responsibility of the council. Over time, this responsibility has shifted to the Engineer, as recognized in various decisions, particularly *Westendorp v. Elisabethtown (1986)*.
- **Evolving Criteria:** The criteria for ARD determination have evolved from focusing solely on physical characteristics (*Duane v. Finch*) to incorporating land use (*Hodgson v. Mariposa*) and, more recently, legal outlets and modern practices (*M&M Farms v. Kingsville*).
- **Modern Adaptations:** The outdated "saucer" concept has been replaced with general criteria that reflect current agricultural and environmental practices, ensuring that the Drainage Act remains relevant (*M&M Farms v. Kingsville*).

These decisions highlight the critical importance of the engineer's professional judgment in creating effective and compliant drainage schemes. By integrating physical, land use, and legal considerations, engineers ensure that drainage solutions meet contemporary needs and statutory requirements, reflecting the dynamic and evolving nature of drainage engineering.

### 3.3 Engineering Considerations and Criteria for Determining the ARD

This section details the engineering principles and criteria fundamental to my determination of Areas Requiring Drainage (ARDs). The complexity of each drainage issue requires an adapted approach, guided by the specific characteristics and challenges presented by the scenario. This section outlines various real-world scenarios encountered in my professional experience, illustrating how differing drainage challenges influence the definition and scope of ARDs. These scenarios cover a broad range of situations, they are not exhaustive; unforeseen circumstances may require unique assessments and solutions.

#### Erosion Problems

Erosion issues commonly involve channels, flow paths, or surface conveyance features such as ravines, which are characteristically longer than they are wide and exhibit significant slopes. These features may cross through or act as natural boundaries between properties.

**Common ARD Shape:** The ARD for erosion issues tends to be linear, reflecting the primary direction of flow along the feature. This linearity may span multiple properties, which can influence the validity of the petition based on how the feature interacts with property lines.

#### Property Boundary Implications:

- **Feature as Property Line:** If the erosion feature is also a property line (e.g., a natural severance like some ravines or a side yard swale in urban areas), the ARD will typically include both properties equally. For the petition to be valid, it generally requires signatures from owners on both sides of the feature.
- **Feature Independent of Property Line:** If the erosion feature crosses property lines but is not aligned with them, the engineer must conduct a detailed assessment to determine the start and end points of the feature, and further identify the length of the feature on each affected property, and the proportion of the feature affecting each property. Petition validity will then be calculated based on the length of the feature on each property and whether the petition is signed by a majority of owners or represents 60% of the affected area (length).



**Land Use Considerations:** Land use around erosion features is usually consistent, with both sides of the feature often utilized for similar purposes. This uniformity means that land use considerations typically have less impact on defining ARDs in erosion scenarios, as the physical characteristics and the configuration of the land are more dominant factors.

#### Flooding Problems

Flooding issues predominantly occur in low-lying areas that lack adequate drainage infrastructure. Such areas often exhibit characteristics similar to the previously mentioned irregularly shaped saucer, gathering water during significant rainfall or snowmelt events.

**Common ARD Shape:** The ARD for flooding issues generally adopts an irregular, expansive shape that captures the entirety of the low-lying area prone to water accumulation. This shape is dictated by natural land depressions and the existing inadequate drainage capacity.

**Land Use and Risk Receptors:** Flood-prone areas often involve diverse land uses, each with different risk levels:

- **Residential Areas:** Backyards and communal spaces where flooding can directly impact living conditions and property.
- **Passively Used Agricultural Lands:** These include lands not regularly farmed but susceptible to water logging, affecting their use.
- **Intensively Used Agricultural Lands:** Areas where persistent water can damage crops or disrupt farming activities.
- **Infrastructure:** Roads and access routes in these areas are critical, especially if needed for emergency access, contrasting with less critical access to undeveloped or unoccupied lands.

#### Sector-Specific Considerations:

- **Agricultural Settings:** The widespread adoption of farm tile drainage systems across Ontario has significantly mitigated traditional flooding issues on agricultural fields. These systems, necessitate secure outlets to effectively manage water, shifting the focus from managing surface water to managing outlet from these systems.
- **Residential and Built-Up Areas:** In contrast, residential areas, urban settings, and roads do not typically benefit from tile drainage solutions, maintaining the relevance of traditional and simplistic surface drainage infrastructure to address flooding.

**Saucer Shape Application:** While the concept of a saucer-shaped ARD may still be valid, its practical application is minimal to non-existent in areas where tile drainage is prevalent or could be effectively implemented. In such contexts, the challenge often shifts from managing standing water to ensuring adequate outlets for farm tile drainage systems.

#### Lack of Usability

Issues of lack of usability may arise in areas that do not necessarily experience flooding but fail to meet current drainage standards or optimal land use requirements. These issues might involve enhancing land usability through interventions such as under-drainage, particularly in agricultural or developmental contexts.



**Common ARD Shape:** The ARD for usability issues often corresponds to the regular, geometric shapes of agricultural fields or planned development areas. The characteristics of these areas, whether highly sloping or notably flat, dictate the nature and extent of drainage solutions required. On the other hand, soil type may significantly influence usability issues. Areas with naturally well-draining soils may not require extensive under-drainage, leading to a potentially irregular ARD boundaries where only specific sections of a larger area might need intervention.

**Landowner and Engineer Collaboration:**

- **Landowner Requirements:** The level of usability required is often initially determined by the landowner, who assesses what modifications are necessary to meet their usage goals.
- **Engineer's Role:** The engineer's responsibility is to evaluate the landowner's requirements for reasonableness. This assessment includes respecting the landowner's desires while applying professional judgment to ensure that the proposed drainage solutions are practical, sustainable, and representative of today's drainage standards.

**Boundary Implications:** The boundaries for ARDs in the context of usability often align with property lines or the distinct outlines of agricultural fields or development areas.

**Legal Outlet**

The need for a legal outlet arises when drainage solutions must be compliant with property boundaries. This is often a critical consideration in areas where adjacent properties may have differing access to natural or established drainage outlets.

**Common ARD Boundaries:**

- **Property Lines:** Property boundaries play a significant role in determining the need for a legal outlet. One property may have direct access to a natural drainage feature, such as a watercourse or sewer system, while an adjacent property does not.
- **Sub-catchment Watershed Delineations:** The boundaries of sub-catchments within a watershed are crucial in planning drainage, as they determine how water flows across different properties and where interventions might be necessary.

**Implications for Change in Land Use:** The requirement for a legal outlet is particularly significant in projects that aim to change land use to more intensive or commercially focused purposes. A change in land use may vary from a simple land improvement, to development which often involves substantial investments and fundamentally alter how land interacts with surrounding water systems.

**Engineer's Role:**

- **Assessment of Requirements:** Engineers must carefully assess the specific drainage needs of a land use change/enhancement, considering both the scale of the investment and the local impact of the proposed changes.
- **Navigating Legal and Technical Constraints:** It is essential for engineers to navigate both the legal stipulations regarding water discharge and the technical challenges posed by the site's geography and existing infrastructure.





### Conveyance of External Flows

In drainage engineering, managing external water flows—particularly sheet flows and uncontained flows—is a complex issue, as downstream landowners are not legally obligated to accept these flows under common law. Although technically within a landowner's rights to block such flows, this is not considered a sustainable or realistic solution.

**Common ARD Shape:** The ARD in scenarios involving external flows is typically characterized by:

- **Entry Point:** The point where external flows first enter the property, often where there is no adequate pre-existing channel or pipe to manage or direct the water. This point of the ARD must logically be positioned at a property line. This placement is crucial to defining the scope of responsibility and potential interventions for managing these flows.
- **Affected Area:** The ARD may also encompass areas where the land has become less usable due to water damage or where modifications are necessary to create effective water conveyance designs.

### Drainage Management

Drainage management plays a crucial role in wetland restoration projects, where the focus shifts from water conveyance to maintaining and controlling water levels to support some form of natural hydrologic function. The ARD in these projects is often defined not just by the land area but by the hydrological needs of the wetland.

**Common ARD Shape:**

- **High Water Level Contour:** The ARD is typically defined by a contour elevation that delineates the high water level expected or desired in the restored wetland. This contour helps in designing interventions that maintain water levels within the necessary ecological constraints.
- **Irregular Shape:** Given the nature of wetland landscapes and water movement, the ARD often takes on an irregular shape, closely following the natural topography and hydrological patterns of the area.

### Other Instances and Emerging Scenarios

In the field of drainage engineering, new challenges arise as landscapes and community needs evolve. Recognizing that not all future scenarios can be predicted, each project must be assessed individually to accurately determine the ARD. This approach ensures that solutions are tailored to the specific conditions and requirements of each site, maintaining flexibility to adapt to unforeseen challenges.

When addressing these diverse and evolving scenarios, it is crucial to consider the long-term sustainability and legality of the drainage solutions. This involves evaluating the potential environmental impact, community needs, and regulatory compliance of any proposed interventions.



## Permanence

The Drainage Act provides a robust framework for creating permanent drainage solutions that are legally sound and protected by by-law. This statutory support ensures comprehensive management of every aspect of a drainage system, including its design, improvements, maintenance, and cost-sharing.

Unlike private solutions, which may lack formal oversight and fail to guarantee long-term functionality, the solutions implemented under the Drainage Act are designed to be enduring. This permanence is a key advantage, offering property owners and stakeholders reassurance about the durability and functionality of their investments in drainage. Utilizing the Drainage Act for addressing an ARD not only resolves immediate issues but also lays a foundation for ongoing maintenance and improvements. This structured approach ensures that drainage solutions are robust, compliant, and adaptable to changing conditions over time. It also promotes communal responsibility and legal protection, emphasizing the superiority of statutory solutions over private interventions.

## Spectrum of Importance for Land Use

The significance of land use in determining the Area Requiring Drainage (ARD) varies widely, depending on its function and the dependency of the landowners on that particular use. Here, I categorize land use into a spectrum of importance, ranging from critical to less critical, based on the urgency and economic impact:

**Emergency Access:** This is considered the most critical use of land. Areas designated for emergency access, such as routes to hospitals or emergency shelters, but also access to occupied dwellings during emergency events (such as floods) are prioritized to ensure unimpeded support during crises.

**Enormous Investment:** Land developed or earmarked for significant financial investment, such as commercial development projects, also ranks highly. The economic stakes involved demonstrate the importance of optimal drainage to protect and enhance the value of these investments.

**Necessary Livelihood:** This category includes lands that are essential for the landowner's income. Operational farmlands that requires adequate drainage to remain functional and profitable is an example.

**Passive Livelihood:** Areas that contribute indirectly to a landowner's income, such as secondary agricultural areas, are important but do not demand the same level of urgency as the primary sources of livelihood.

**Recreational Use:** Land used for leisure activities, such as parks, or personal backyards, generally holds the least urgency. While important for quality of life, the drainage needs of these areas are often less critical and can be more flexible in terms of planning and implementation.

This spectrum helps guide engineers in prioritizing ARD determinations based on the functional importance of the land, ensuring that both the economic and social impacts of drainage decisions are carefully balanced. By understanding the varying degrees of importance across different types of land use, engineers can tailor their drainage solutions to align with the specific needs and priorities of the community and individual landowners.





## General Principles

The determination of the Area Requiring Drainage (ARD) is the responsibility of the appointed engineer. The initial step in this process involves confirming whether the area specified in the petition indeed falls within an ARD. If this is the case, the subsequent task is to ascertain whether the ARD extends beyond the boundaries identified in the petition. This involves examining if the extended area encompasses additional properties, which may affect the scope and implications of the drainage project.

Identifying the drainage problem to be solved is crucial, as it helps define the ARD. This process involves the following steps:

**Identify the Problem:** Determine the specific drainage issue, such as erosion, flooding, lack of usability, need for a legal outlet, conveyance of external flows, or drainage management. This is the foundational step in the ARD determination process. Understanding the specific drainage issue, whether it's erosion, flooding, or another concern, directly influences all subsequent decisions. Correctly identifying the problem ensures that the solution addresses the actual needs of the area, preventing misallocation of resources and ensuring that the most pressing issues are prioritized.

Accurate problem identification helps define the spatial and functional scope of the ARD, guiding where and how the engineering solutions should be applied.

**Discuss with Petitioners:** Engage with petitioners to understand their concerns and verify if they align with physical features and real or proposed land uses. Engaging with petitioners, and other landowners, is crucial for gathering firsthand information about the drainage issues from those directly affected. This dialogue helps validate the presence of the problem within the context of real-world use and perceptions, ensuring that the engineering solutions align with the actual needs of landowners.

**Assess Physical Features:** Examine the physical characteristics of the area to identify the extent and nature of the drainage problem. The physical assessment provides a tangible basis for all technical decisions in the drainage plan. Understanding the topography, soil type, existing flow paths, and other geographical features is essential for designing effective and sustainable drainage solutions.

This technical evaluation defines the natural boundaries of the ARD, ensuring that the engineer's work is tailored to the physical reality of the landscape.

**Consider Land Use:** Evaluate the land use within the ARD, considering current and reasonable future uses. Land use analysis is essential for contextualizing the drainage solutions within the current and planned uses of the land. This step ensures that drainage plans enhance or at least do not negatively impact the economic and social activities dependent on the land.

By evaluating both current and reasonable future land uses, the ARD, when determined correctly, can protect and support economic development and land preservation, balancing growth with environmental sustainability.

**Legal Considerations:** Address legal considerations such as the need for a legal outlet and the conveyance of external waters without a legal obligation to accept them.



#### Property Lines as Legal Boundaries:

Property lines, though merely lines on paper, may hold significant real-world implications in the determination of the ARD. These lines define legal boundaries that can influence drainage solutions and responsibilities. For instance, a property with an established legal outlet allows for drainage within the entire watershed that falls within its bounds. However, if a portion of this property is later severed, the new property line creates a legal boundary for the severed portion, potentially altering its access to the original legal outlet.

In many cases, the ARD boundary may align with property lines, especially when different parcels of land have distinct legal rights or access to drainage facilities. This alignment can dictate where and how drainage systems are implemented, ensuring they comply with legal ownership and access rights.

While property lines may not manifest physically in the field, their role as legal boundaries may be crucial in the planning and execution of effective drainage systems. Engineers must consider these boundaries to ensure that drainage solutions are not only effective but also legally sound and respectful of property rights. This approach emphasizes the complexity of drainage engineering, where legal considerations are as impactful as the physical and hydrological characteristics of the land.

#### Conclusion

Determining the ARD is an intricate process that integrates deep technical expertise with a comprehensive understanding of legal, social, and environmental factors. Each drainage issue presents unique challenges, making it essential for engineers to adopt a highly tailored approach to each project. This process begins with a precise identification of the drainage problem, followed by active engagement with the stakeholders involved, particularly the petitioners. By thoroughly assessing the physical landscape, critically evaluating the land use impacts, and methodically considering legal boundaries such as property lines, engineers ensure that their solutions are not only technically sound but also legally compliant and socially responsible.

Engineers play a pivotal role in balancing the technical demands of drainage with the rights of landowners, ensuring that each solution respects property boundaries and legal precedents while effectively addressing the identified drainage needs. This careful consideration ensures that ARD determinations contribute to the sustainability and efficiency of drainage systems, providing equitable solutions that stand the test of time and adapt to evolving land-use patterns and environmental conditions.

Ultimately, the rigorous process employed in determining the ARD underlines the commitment to precision, fairness, and legal adherence, upholding the integrity of the engineering profession and ensuring that drainage systems enhance the welfare of the communities they serve.



## 4.0 DETERMINING THE ARD FOR THE JANANNA PETITION

### 4.1 ARD as Noted in the Petition

According to the petition, the ARD is noted as the following:

*The area of land described below requires drainage (provide a description of the properties or the portions of properties that require drainage improvements):*  
*N1/2 Lot 10, Concession 3B, 1184 Gerber Road*

This initial identification sets the groundwork for a comprehensive evaluation to verify, and potentially expand or reduce, the areas designated in the petition. This process will involve rigorous field investigations, public consultations, and a detailed review of both the physical and legal aspects affecting the drainage requirements. By establishing the ARD as described in Section 3.3 of this report, we ensure a thorough assessment to accurately determine the full extent of the area that requires management under the Drainage Act. This ensures that all relevant areas are accurately captured.

### 4.2 On-Site Meeting – September 22, 2021

#### Preparatory Work and Initial Site Visit

Prior to the formal on-site meeting, preparatory work was conducted using publicly available information and Geographic Information System (GIS) techniques. This preparation involved analyzing aerial photos and digital elevation models (DEMs) to perform a detailed watershed delineation. On **August 24, 2021**, an initial site visit was conducted to confirm or adjust these boundaries and to identify stakeholders for the upcoming on-site meeting. This initial assessment was crucial to ensure that the subsequent on-site meeting would be grounded in accurate and comprehensive geographical data, aligning with the general methodology noted in Section 3.3, with an emphasis on appropriate data collection and analysis as a foundation for ARD determination.

#### On-Site Meeting

During the **on-site meeting** held on **September 22, 2021**, the prior GIS analysis was validated, confirming that the area designated in the petition genuinely required drainage. This validation process involved:

Identifying External Water Flows: The meeting emphasised the presence of external water flows onto the petitioner's land without a legal mandate for acceptance, confirming the need for drainage per the criteria outlined in Section 3.3, which focuses on the physical characteristics indicating drainage necessity.

Legal Outlet Considerations: It was identified that there exists an area that cannot be effectively tile drained due to the absence of a legal outlet, highlighting a critical aspect of ARD determination under Section 3.3—assessing the adequacy of existing drainage infrastructure.

Additionally, discussions during the meeting brought to light the need to further investigate the property's west side, a concern not pre-identified but emerged through stakeholder engagement:

West Side External Water Flows: Similar to the east side, the west side was experiencing uncontrolled external water flows. This finding prompted further investigations into whether



these conditions extended the ARD beyond the initially identified areas. It's clear that the petitioners face a legitimate drainage problem due to unpermitted surface flow from external lands, further aggravated by alterations such as a break in the road's ditch bank directing water directly onto their property. These alterations exacerbate the natural drainage problem, emphasizing the legitimacy of the petitioners' concerns and the necessity of addressing them within the project's scope. While acknowledging this, it's also recognized that the severity of this issue might not match other challenges on the property.

Review of Petition: A review of the petition confirmed that it correctly identified the property and had the necessary signatures, supporting the validity of the petition for further investigative processes.

#### Focus on ARD Verification

A focus of the on-site meeting was to verify whether the petitioner's property fell within an ARD:

East Side External Waters: A distinct ARD was identified on the east side where external waters continuously flowed over the ground surface, originating and concluding within the petitioner's property boundaries. This finding was critical as it directly tied to Section 3.3's criteria for establishing an ARD based on observable physical conditions that necessitate Drainage Act intervention.

Tile Drainage and Legal Outlet Needs: The discussion also covered the tiling that had been done and the areas that could not be 'pulled' to the southwest due to topographical limitations. This highlighted the high priority need for a legal outlet to manage the un-tiled areas effectively, emphasizing the necessity for a tailored drainage solution that could only be facilitated through a formal engineering report.

#### Conclusion and Further Actions

The conclusions reached during the on-site meeting of September 22, 2021, mark a critical phase in the ongoing determination of the Area Requiring Drainage (ARD). While the meeting conclusively identified specific sections of the petitioner's property as part of the ARD—highlighting areas affected by external water flows and insufficient drainage outlets—the investigation remains incomplete. The next essential step is to determine whether the ARD extends beyond the currently identified boundaries onto adjacent properties. This extension could have significant implications for the overall drainage project, potentially altering the scope and scale of necessary interventions.

#### Following the On-Site meeting

A phone call was received from an adjacent property owner (Cory Kittel) expressing opposition to the investigation of a proposed drainage solution. The feedback highlighted the difference between landowner requirements, where perceptions of necessity and the financial implications of solutions can vary significantly among stakeholders. This interaction highlighted the importance of balancing technical needs with the economic realities faced by Landowners.



#### 4.3 Continued Investigation of ARD

Following the initial on-site meeting, further site visits were conducted to reassess the area. On **October 12, 2021**, a visit reaffirmed the initial conclusions. A subsequent visit on **November 10, 2021** allowed for a comprehensive assessment of both the east and west sides of the site, confirming earlier findings. These visits were critical to verifying the project's needs and also ensuring that the proposed solutions were grounded in accurate, on-the-ground observations.

After the site assessments, a detailed topographic survey was conducted by our team on **November 24, 2021**. This initial survey aimed to gather precise data for design work. Upon reviewing this data and drafting initial designs, it became evident that additional surveying was necessary to identify a sufficient outlet for drainage. Consequently, a follow-up survey was carried out on **December 23, 2021** to address this requirement and ensure the projects feasibility and effectiveness.

After completing and analyzing the survey data, we moved on to preparing models of the existing surfaces and design of the drainage system. Following this, we engaged with environmental agencies, and upon approvals, we estimated the project costs and determined cost distributions according to the Drainage Act.

Through the process, efforts were made to allow for the project's scope to potentially be reduced. During a meeting with the petitioners on **September 13, 2022**, we focused on the West Branch to discuss its associated costs and gauge their commitment to pursuing this aspect of the project. This discussion served as a crucial checkpoint for assessing the petition's validity concerning the west side. The petitioners reasserted their concerns over external water discharges onto their property, leading to the decision to maintain the proposed design solutions. This step highlights the consideration of stakeholder input and the necessity of addressing identified drainage issues within the project's scope, ensuring solutions align with the genuine needs and legal framework outlined by the Drainage Act.

#### 4.4 Additional Public Engagement

During our engagement process, we held two public meetings; the first on **September 29, 2022**, and another on **November 22, 2022**. Despite ongoing dialogues with landowners, which suggested an underestimation or outright denial of the petitioner's drainage issues, and the community as a whole, our evaluations affirm the presence of genuine drainage concerns.

Significantly, following the first meeting on September 29th brought to light issues with the outlet for the west branch and the tiling system on the Jananna property. This information necessitated a reassessment of the ARD to consider these new challenges. As a result, the ARD was adjusted to account for the sophisticated yet maintenance-intensive drainage system, which outlets into a system experiencing excessive maintenance. This adjustment led to the expansion of the ARD, albeit still confined to the same property, reflecting the need for a more comprehensive solution as outlined in the upcoming report.

This expanded ARD synthesizes all identified areas into one ARD, encompassing the east side where external waters enter the property and where an area lacks a legal outlet, the west side which also receives external waters, and the tiling system whose maintenance issues have now been recognized as excessive, yet avoidable with the application of the Drainage Act.



The feedback from the September 29th meeting also led to a reduction in the scope concerning the Bamberg Creek, due to public input. Consequently, the second meeting on November 22nd was organized to address these adjustments and present the revised scope with the community.

The entire property at North 1/2 of Lot 10, Concession 3, Block B, 1184 Gerber Road, Wilmot Township, has been delineated as the ARD, excluding the bush areas and the naturally well-draining soils to the north of the property. These areas do not require drainage interventions, hence their exclusion from the ARD.

Efforts to explore private solutions for the drainage issue on the east side were made on **February 10<sup>th</sup> and February 13<sup>th</sup>, 2023**. The focus was on the east side's drainage issue, offering the petitioner a final opportunity to consider a private resolution, given the neighbour's promises to rectify the situation. There was skepticism regarding the neighbour's sincerity and concerns about the permanence of a private solution. Ultimately, the petitioner sought a solution with legal permanence, protected under by-law and the Drainage Act, ensuring long-term reliability. This decision maintained the ARD determination, emphasizing the petitioner's priority for a legally safeguarded resolution.

#### 4.5 Determining the ARD Beyond the Petitioner's Property

Evaluating the extension of the Area Requiring Drainage (ARD) onto neighboring lands is essential for understanding its impact on the petition's validity and the overall drainage project. The Kittel property to the east features a distinctive low-lying, saucer-shaped area that is predominantly located on Mr. Kittel's side. This analysis will clarify whether the saucer is included in the ARD and determine if other features on the Kittel property should also be considered part of the ARD. This precise determination is crucial for ensuring the project's alignment with the Drainage Act and addressing any misconceptions that could affect its progression.

##### Riparian Rights and Legal Outlets

The Kittel property is positioned riparian to Bamberg Creek, affording it natural drainage rights that negate the necessity for interventions under the Drainage Act. This riparian status allows the property to legally manage water flow from the property directly into the creek without additional infrastructural requirements. Conversely, the Jananna property lacks such riparian benefits, placing it in a position where the Drainage Act becomes essential to establish a legally sanctioned drainage solution.

Mr. Kittel has acknowledged the adequacy of his property's drainage capabilities through correspondence stating,

*"It has been confirmed by independent drainage designers and installers that a suitable outlet already exists and can be achieved without this work" (Page 653 of 1106 of the Engineer's Productions).*

This assertion not only demonstrates awareness of the property's advantageous position but also solidifies the fact that this property does not require the statutory interventions provided by the Drainage Act, unlike the Jananna property which is dependent on such legal provisions to achieve necessary drainage standards.





This clear distinction in legal drainage rights between the two properties highlights the necessity of the Drainage Act's involvement for the Jananna property to ensure it meets current drainage standards and legal requirements. It stresses the disparity in natural advantages and legal entitlements affecting the drainage strategies applicable to each property.

### The Saucer Definition

The 'saucer' concept, which historically defined ARDs as shallow depressions reminiscent of a saucer's shape, originates from a time when agricultural technology and infrastructure were far less advanced. Referee Delbert A. O'Brien in his decision dated September 29, 2004, in the case of M & M Farms Ltd. vs. Kingsville, pointed out the limitations of this concept. He noted that this was a standard set in 1929, a period characterized by horse-driven farm operations, minimal tile drainage, and the absence of modern contouring practices such as laser leveling and GPS mapping.

*It should be noted that statement was made by the Referee in 1929 in a period when the horse was still the primary source of energy on the farm. Farms were small, tile drainage was limited and modern contouring practices (with the use of lasers and G.P.S.) were totally unknown. It becomes harder and harder to apply the saucer concept to the context of modern farming and it has no application whatsoever if the only requirement is to obtain a legal outlet when one is not available. – M&M Farms Ltd. V. Kingsville (2004), p. 12.*

Referee O'Brien emphasized that the context of modern farming has evolved significantly, rendering the saucer concept increasingly less relevant in agricultural settings. Today's agricultural practices include advanced tile drainage systems that are designed to efficiently manage water flow across varied terrains, far surpassing the capabilities of the simplistic saucer-shaped drainage solutions. In modern settings, the necessity for ARDs may revolve around having legal drainage outlets rather than conforming to a specific topographical shape.

In line with Referee O'Brien's insights, it is evident that the practicality of tile drainage in agricultural settings has largely supplanted the need for defining ARDs based solely on the saucer shape. This definition is more apt for scenarios where tile drainage technologies are absent, such as in residential areas, where simplistic natural surface relief still plays a critical role in water management.

Therefore, applying the saucer concept to the current context, particularly in well-equipped agricultural landscapes, is both archaic and deficient. The focus should instead be on ensuring adequate legal outlets and utilizing today's drainage technologies that adequately address the complex water management needs of current landscapes.

### Clarifying Misuse of the Saucer Concept

The use of the 'saucer' shape as a defining feature for the ARD has been incorrectly emphasized regarding the drainage needs on the east side of the petitioner's property. As detailed in earlier sections of this report, the primary drainage issues identified involve external water flows and the critical necessity for a legal outlet—issues that are fundamentally unrelated to the simplistic topographical shape of a saucer.

The insistence on defining the ARD solely by this saucer shape incorrectly narrows the scope of the ARD. This strategy is particularly evident in efforts to limit the scope of required drainage interventions and possibly halt the progression of necessary drainage projects. By focusing on



a saucer-shaped depression, which is not a concern in this context, distracts attention from the broader and more pressing issues of water management and legal access to adequate drainage outlets.

It is critical to base the definition of the ARD on objective assessments of water flow, legal drainage rights, and the actual needs of the land, rather than outdated or inapplicable topographical definitions. The saucer concept does not address the complexities of modern drainage requirements or the specific challenges faced by the petitioner's property. Instead, a comprehensive evaluation of the property's drainage needs should guide the determination of the ARD, ensuring that all relevant factors are considered.

To stylize the ARD definition around the saucer shape is a simplification that undermines the integrity of the drainage analysis and the Drainage Act's provisions. It is essential to focus on the legitimate drainage issues that require resolution under the Act, thereby ensuring that the ARD determination is accurate.

### Upstream Extent of the ARD

Recent assertions have brought up concerns regarding a potential extension of the Area Requiring Drainage (ARD) in the upstream direction on the East Branch. While this idea was introduced after the original report was filed, it merits consideration within the framework of the existing drainage project. It is important to clarify, however, that this area is not part of the actual ARD.

The central issue in the defined ARD is the continuous flow of surface water, which originates from the appellant's property. This situation requires a surface water drainage solution, including a properly designed inlet and outlet system. The event-based surface water flows from the petitioner's property are naturally directed towards this newly proposed drainage system. Extending the municipal drainage system further upstream is neither authorized, necessary, nor practical.

The construction of the proposed municipal drainage system offers a practical and effective way to manage event-based surface flows. This approach not only avoids the unnecessary costs and complexities of extending the drainage system upstream but also leverages the capabilities provided under the Drainage Act to address such issues locally and efficiently. The Drainage Act provides mechanisms for addressing such drainage scenarios without necessitating the extension of the main drainage works. These solutions allow for local management of surface flows, which is both economically sensible and legally sound. It highlights the Act's capacity to provide flexible, adaptive responses to specific drainage challenges without overextending the scope.

The assertion that the area in question should be included as part of the ARD does not align with the technical assessments or the practical requirements of the situation. The proposed drainage infrastructure is adequately designed to handle current and potential future needs, and its implementation is fully authorized and aligned with the needs of the real area requiring drainage that is further validated by petition. This emphasizes the necessity to proceed with the planned works where there is clear authority and obligation. This decisive approach ensures that drainage solutions remain focused, effective, and in strict compliance with statutory requirements and the practical realities of drainage management.





### Investment in Necessity of Drainage Act Solutions

The Jananna property has made significant investments in drainage solutions, demonstrating a proactive approach to water management that aligns with modern agricultural standards. These investments include plans for incorporating municipal drains, which are essential for addressing the comprehensive drainage needs of the property. While the Kittel property, does not demonstrate the same drainage quality as the petitioner's property, this does not reflect a deficiency that necessitates the intervention of the Drainage Act. Instead, this property has the legal and technical capacity to achieve adequate drainage. The current state of drainage reflects individual choices regarding investment and land management rather than an inherent inability to achieve proper drainage.

As engineers, it is important to differentiate between drainage problems that necessitate the Drainage Act and problems that do not. The current state of drainage on the Kittel property reflects a decision or economic choice not to invest in additional drainage infrastructure, rather than an inherent deficiency that requires statutory intervention.

The autonomy of property owners in managing their land and infrastructure investments must be respected, provided that they have the legal means to achieve adequate drainage. The focus should remain on ensuring that any invocation of the Act is justifiably based on actual deficiencies that cannot be legally addressed privately, rather than compensating for a lack of investment.

### Landowner Stance on Drainage Needs Before the Drainage Report Filing

Throughout the process of public engagement, Mr. Kittel has consistently expressed that there is no drainage problem warranting intervention. He has provided multiple pieces of information to support his claim that the issues previously affecting his land have been resolved through existing drainage measures implemented by neighboring properties.

In an email dated September 23, 2022, Mr. Kittel remarked,

*“As you can see from the image attached, we have added that former wet spot back into our workable land. Since the neighbor tiled their fields, this area has completely dried up...” (Page 389 of 1106 of the Engineer's Productions).*



He further shared a photo with the Council and Township staff on May 12, 2022, with the caption:

*“This is the lowest area in all the fields after a VERY snow heavy season and big melt. Zero standing water and drying/draining nicely. At the time of this photo, it’s bone dry and being prepped for farming for the first time after overgrowth being cleared out. The result of successful field tiling recently placed in the ground nearby. This area is typically wet in March like with any low spots in fields (tiled or not) during the melt, drying by April and looking like this in May.” (Page 643 of 1106 of the Engineer’s Productions).*



Mr. Kittel has critiqued the proposed drainage solutions as excessive, labeling the \$104,800 'East Branch' of the project as a "band-aid solution" and "over-engineered" with no additional benefits for the lands it would affect. He asserts that this effort is redundant, stating the proposed solution:

*"is trying to fix a problem that's already been fixed." (Page 651 of 1106 of the Engineer's Productions).*

He also mentioned plans for a new private drain to be installed to manage any residual issues proactively:

*"As mentioned earlier, a new private drain is to be installed by the pond owner (Kittel) to address the pond issue. Since this new drain needs to head South toward the creek anyway, it will be routed through the low depression with a drain in that area near the fence line to pick up any standing water if it were ever to become a problem." (Page 651 of 1106 of the Engineer's Productions).*



In a note to the petitioners on March 23, 2023, Mr. Kittel conveyed,

*“The low depression doesn’t seem to be a problem anymore anyway, your filed tiling took care of that, but a drain will be there anyway along the fence line just in case.” (Page 583 of 1106 of the Engineer’s Productions).*

The consistent theme in Mr. Kittel’s communications is a clear indication that he perceives no current or future need for extensive drainage interventions under the Drainage Act for his property. This stance, supported by evidence of effective existing drainage and planned enhancements, suggests that the ARD, as defined by the Act, does not extend to include his property based on necessity. The focus thus remains on ensuring that any proposals under consideration are necessary, justified, and beneficial for the affected areas, taking into account the actual conditions and the perspectives of involved stakeholders.

#### Conclusion: ARD Assessment for the Kittel Property

The ARD must be rooted in one of the abilities of the Act, if it isn’t, then the Act is not needed, or cannot work. Based on the engineering assessments and legal frameworks discussed, the Kittel property does not fall within the ARD in a manner that impacts the scope of this project. The property’s existing legal rights to an adequate natural drainage outlet, combined with Mr. Kittel’s consistent assertions that no additional drainage support is required, point out this conclusion.

Throughout the year and a half spent preparing this report, Mr. Kittel has repeatedly emphasized the sufficiency of existing drainage conditions on his property, negating the necessity for further action under the Drainage Act.

In contrast, the petitioner’s property does require the interventions provided by the Drainage Act to achieve adequate drainage solutions. This property lacks the natural and legal drainage capabilities that the Kittel property benefits from, making the Act’s provisions essential to address its specific and unmet drainage needs effectively.

This comprehensive evaluation indicates that while the Drainage Act remains a crucial tool for addressing significant drainage challenges, its application must be judiciously reserved for circumstances where it can effectively resolve issues that cannot be managed through existing legal or natural means. The Kittel property, with its adequate drainage capabilities and lack of substantive issues requiring statutory intervention, exemplifies a situation where the Act’s involvement is not essential. However, for the petitioner’s property, the Act is indispensable in ensuring legal and effective drainage solutions are implemented.

#### 4.6 Meeting to Consider the Report

At the **Meeting to Consider the Report**, held on **June 26, 2023**, as outlined in Section 42 of the Drainage Act, petitioners and other landowners were given a crucial opportunity to amend their involvement in the petition. No changes to the names were requested. This juncture, effectively a point of no return, affirmed the seriousness with which the petitioners regarded their drainage issues, both east and west, and their determination to seek a long-lasting resolution under the legal protections offered by the Act.





## **5.0 EXPERT OPINION ON THE VALIDITY OF THE PETITION**

A petition legally triggers a Drainage Act investigation. While the petition itself does not authoritatively detail the specific drainage needs, its filing obligates a comprehensive examination of the area's drainage issues. This investigation subsequently reveals the proposed drainage works. The petition effectively initiates the required legal and engineering processes to identify and address these needs, supported by a majority of landowners or 60% majority of the area within the professionally determined ARD, fulfilling the statutory requirements for initiating drainage works.

### **5.1 Petition Validity**

The Drainage Act outlines specific criteria for the initiation of drainage projects through petitions filed by property owners or other stakeholders. This section assesses whether the petition for drainage on the Jananna property meets the necessary legal requirements specified in the Act, ensuring the project's legitimacy and compliance.

#### **Criteria for Validity**

**Owner Participation and Majority Requirements:** According to Section 4(1)(a) of the Drainage Act, a petition must be filed by the majority in number of the owners of the lands within the area requiring drainage as indicated on the last revised assessment roll. This includes owners of any roads within the area. The Jananna petition satisfies this requirement, as it has been signed by a majority of landowners within the ARD.

**Representation of Land Area:** Section 4(1)(b) specifies that the petition can be initiated by the owner or owners representing at least 60 percent of the hectare coverage within the ARD. The Jananna property, which encompasses the majority of the land within the ARD, meets this criterion, with the petitioners collectively owning more than 60 percent of the ARD.

#### **Conclusion**

The petition for drainage works on the Jananna property adheres to the stipulations of the Drainage Act, specifically Sections 4(1)(a) and 4(1)(b). The inclusion of a sufficient number of property owners (100%) and the representation of land area (100%) in the petition validate the initiation of the project for addressing the drainage issues comprehensively. As such, the petition is legally valid, and the project must proceed under the Drainage Act, ensuring that actions taken are within the framework of established legal requirements.

### **5.2 Discrepancy in the Petition's Supplemental Document and the Entire ARD**

In the complex process of initiating drainage projects under the Drainage Act, the initial petition plays a crucial role in defining the scope of the proposed works. In this specific case, the petitioner formally identified the entire property as the Area Requiring Drainage (ARD) on the petition itself, warranting a broad approach to addressing potential drainage issues. Accompanying the petition was a supplemental document that provided further detail by focusing primarily on the east side of the property. This document presented a more detailed overland flow path and suggested a possible design concept for that specific area.

The west side of the property was first brought to attention during the onsite meeting, reflecting a broader concern than initially indicated by the supplemental sketch. This inclusion was consistent with the petitioner's formal declaration of the entire property as the ARD, highlighting a discrepancy between the inclusive scope of the petition and the more focused





description of the supplemental document. Such a situation stresses the dynamic nature of drainage evaluations, where initial documents may not fully capture the evolving understanding of a property's drainage needs.

This section examines the implications of these document discrepancies and how they influence the project's legal and practical considerations, particularly considering the petitioner's broader request during the onsite meeting to include the west side in the investigation—a request validated by their initial comprehensive identification of the ARD.

### Supplemental Documents in Drainage Petitions

The Drainage Act utilizes a prescribed petition form to initiate drainage projects, ensuring consistency, fairness, and uniform treatment across the province. This petition form is designed to meet statutory requirements, providing a standardized approach that facilitates equal application of the statute to all stakeholders. This standardization is essential in maintaining transparency and predictability in how drainage issues are handled, which is essential for both the administration and the practical execution of engineering projects under the Act.

While supplemental documents may be submitted alongside the prescribed petition to provide additional context or detail about the proposed drainage works, their role is informative rather than determinative. These documents can include sketches, descriptions of specific problem areas, and sometimes, design concepts. They do not and cannot constrain the scope of a project. Should they do so, it would disconnect the project from essential technical assessments and professional standards, allowing petitioner assumptions or preferences to predominate improperly.

Though supplemental documents provide valuable insights and can help articulate the petitioner's concerns and perceived needs, they must be understood as supplementary to the engineer's authoritative determination of the ARD. The use of prescribed forms ensures consistency across the province, and the role of the engineer in defining the ARD ensures that drainage projects are grounded in professional assessments rather than subjective interpretations of drainage needs. This framework not only respects historical legal developments but also aligns with modern expectations, ensuring that they are conducted with a high degree of technical and legal rigor.

### Role of Referee Decisions in ARD Determination

Since 1975, there has been a significant shift in how the ARD is determined, moving from reliance on petitioners' assumptions to detailed technical analysis by engineers. This change has allowed for more precise and objective engineering assessments, which directly influence the design and scope of drainage projects.

Notable is the **1986 Westendorp v. Elizabethtown** case. This case illustrates the practical implications of engineers taking a lead role in defining drainage projects. It highlights that engineering decisions, while initially differing from petition descriptions, are based on rigorous technical analysis of physical and environmental data.

*"The definition of the area requiring drainage in the Petition was often only a guess on the part of the petitioners and more importantly by the local council who had to decide if a majority had signed." – Westendorp v Elisabethtown (1986) p.*

10.



*"In defining an area to be drained in a petition, absolute certainty is in most instances impossible. An adequate definition of a drainage area in most instances is not possible until the report of the engineer is prepared since it is dependent upon the topography and the variation of ground levels. In essence, the initial area set forth on the petition may increase or decrease, dependent upon the professional determination of the engineer." Westendorp v. Elizabethtown 1986, p. 11*

The **2000 Pannabecker v. West Wawanosh** decision highlights the technical responsibility placed on engineers, emphasizing the importance of their independent, professional judgment in the assessment of the ARD based on objective criteria, rather than the less precise methods previously used.

Here's the exact quote from the decision:

*"It is equally important to note that in the current Drainage Act the decision as to what lands are the lands 'requiring drainage' is left solely to the appointed Drainage Engineer who is available to give a professional opinion. In previous legislation, that decision was left to the municipal council which no doubt gave expression to a lay opinion, possibly influenced by political considerations. The current Drainage Act, which imposes on the Drainage Engineer the duty to provide independent, unbiased professional opinions, represents a positive step forward and in many cases, the Drainage Engineer gives expression to the needs of minority landowners." Pannabecker v. West Wawanosh 2000, p. 7*

These decisions emphasize the critical role of engineers in advancing drainage design through objective, technical assessments. Moving away from initial guesses and subjective assessments, engineers now rely on precise, data-driven evaluations. This shift ensures that drainage solutions are sustainable and effective, rooted in modern environmental and technical standards.

### Significance of Signatures and Property Identification

Beyond the initial ARD description, the validity of a drainage project under the Drainage Act critically depends on the signatures collected from property owners within the accurately determined ARD. These signatures—and the properties they identify—ensure that the project is legally backed by those truly requiring drainage by the proposed drainage works, affirming legal compliance and the protection of property rights.

The names on the petition and the corresponding properties they identify are crucial components of a valid drainage petition. The initial ARD description serves as a starting point, but it is the engineer's professional assessment that ultimately defines the precise ARD. What matters most are the property owners' signatures, indicating their petitioning action for the drainage project.

This focus on property identification ensures that the drainage project addresses the needs of landowners who require the Drainage Act's intervention to achieve today's drainage standards. The petition's validity is not tied to the ARD initially described but to the confirmed action from property owners within the engineer-determined ARD. This approach ensures fairness, compliance with the Drainage Act, and the alignment of the project's scope with the actual requirements of the landscape.



Emphasizing the importance of signatures and property identification protects the legal rights of landowners to achieve modern drainage standards. This focus ensures that minority landowners' rights are safeguarded, providing them with the necessary infrastructure to manage water effectively and maintain their properties' value and usability. The drainage project, therefore, is not about popularity but about ensuring legal protection and equitable access to essential drainage solutions.

## **6.0 EXPERT OPINION ON AUTHORITY TO WORK ON THE KOCH-LEIS DRAIN**

The Koch-Leis Drain is a municipal drain established in 1950. While it has not been improved under Section 78 of the Drainage Act, it has undergone periodic maintenance in 1985, 2010, 2012, 2018, and 2021. Despite these efforts, maintenance needs at the lower end have been increasing significantly. Current surveys, when compared to the original 1950 drainage report, reveal that the condition of its outlet, the Bamberg Creek, has substantially deteriorated.

Under Section 15 of the Drainage Act, there is a clear obligation to ensure that the drainage outlet is sufficient. The Act states:

*Subject to section 32, every drainage works constructed under this Act shall be continued to a sufficient outlet. R.S.O. 1990, c. D.17, s. 15.*

Initially, the depth of the Koch-Leis Drain led me to believe it provided a sufficient outlet for the drainage works. However, insights shared by the Drainage Superintendent, particularly maintenance records presented after the first public information meeting, highlighted significant issues. These records indicated that the outlet was requiring excessive maintenance, which, coupled with the flat grade and deterioration in Bamberg Creek, demonstrated that the current outlet was insufficient and could not improve naturally.

The work on the Koch-Leis Drain is, therefore, mandated by the need to secure a sufficient outlet as required by Section 15 of the Drainage Act. This requirement supersedes the need for a separate Section 78 authorization. The improvements are essential to ensure an effective and sustainable drainage system for the Area Requiring Drainage (ARD).

Interestingly, the work in Bamberg Creek, extending upstream to the outlet of the east branch, is justified under Section 15 of the Drainage Act, rather than under Section 4, which served as the initial authority. While Section 4 and a valid petition initiate a project, the design scope of the project is ultimately determined by the ARD (upper constraints) and the need for a sufficient outlet (lower constraints). The drainage network between these constraints forms the 'municipal drain.'

This approach ensures that all necessary improvements are made to achieve a sufficient and legally compliant drainage system, addressing both immediate needs and long-term sustainability.



## **7.0 THE COUNTER POSITION**

In every petition I review, and every ARD I determine, I always test the position: what are the implications if I deem the petition invalid? This exploration is vital to understanding the potential consequences for the lands identified on the petition and the ARD as I have determined it.

### **7.1 Legal and Practical Implications**

#### **Validity of the Petition:**

An incorrectly expanded ARD could potentially affect the validity of the petition. According to Section 4 of the Drainage Act, for a petition to be valid, it must be supported by a majority in number of the owners or by owners representing at least 60% of the land area within the ARD. An expanded ARD might include properties that do not require drainage solutions or whose owners did not consent to the petition, raising questions about the petition's legitimacy.

#### **Impacts on Petitioned Lands:**

If the ARD includes lands unnecessarily, the biggest issue for properties that rightfully need drainage is the potential loss of their legal rights to adequate drainage solutions. These rights, once forfeited due to an incorrect ARD determination, may become exceedingly difficult to recover, leading to a ripple effect where more properties might be deprived of essential drainage solutions. Additionally, incorrect determinations may perpetuate the discharging of surface water onto downstream properties, compelling them to accept flows they are not legally required to manage.

#### **Engineer's Authority and Professional Responsibility:**

An incorrectly determined ARD not only undermines the engineer's authority but also the integrity of the Drainage Act itself. The determination must align with the principles outlined in the Drainage Act and be supported by legal precedents. Ensuring that the ARD is correctly determined upholds the engineer's credibility and the legislative intent of providing a fair and equitable solution to drainage issues.

### **7.2 Upholding the Act's Objectives and Professional Standards**

#### **Protection of Legal Rights:**

The Drainage Act serves not only to resolve drainage issues but also to protect the legal rights of landowners to access the abilities provided by the Act. An accurate ARD determination is crucial for safeguarding these rights and ensuring that properties that legally require drainage interventions are not overlooked or disadvantaged by the influence of those who do not require such interventions.

#### **Professional and Technical Basis:**

Another key objective of the Drainage Act is to provide drainage solutions based on professional and technical assessments, ensuring that all properties that qualify under the Act's provisions receive appropriate drainage solutions. The Act aims to eliminate the influence of public opinion or dissent (instead of public need) that may hinder the implementation of necessary drainage projects. The engineer's responsibility is to ensure



that the solutions are not only technically sound but also legally compliant, reflecting the needs based on a thorough and professional analysis.

#### Conclusion: Ensuring Accurate ARD Determination

To mitigate the issues outlined, it is imperative to maintain a rigorous and analytical approach in determining the ARD. This process begins with a precise identification of the drainage problems, followed by an assessment that is strictly based on technical data and professional judgment, not swayed by public or neighborly pressures.

Thoroughly analyzing the counter position emphasizes the necessity of precise and legally sound determinations of the ARD to prevent the loss of legal drainage rights and ensure that all actions taken under the Drainage Act enhance the welfare of the communities they serve while adhering to the highest standards of fairness and technical precision. Ensuring that the ARD is accurately determined is fundamental to upholding the integrity of the engineering profession and the legal framework of the Drainage Act.

## **8.0 COMPLIANCE WITH THE DRAINAGE ACT**

This section demonstrates the drainage report's compliance with the requirements set forth in Section 8 of the Drainage Act, along with additional obligations as prescribed by related Drainage Act sections. The engineering efforts, methodologies, and documentation presented herein align with statutory mandates, ensuring that the proposed drainage works are legally sound and technically robust.

### 8.1 Compliance with Section 8 of the Drainage Act:

#### Section 8(a) Plans, Profiles, and Specifications, and Description of the ARD:

The report contains six detailed drawings that provide comprehensive plans, profiles, and specifications of the drainage works.

Section 2 of the drainage report discusses the ARD and the validity of the petition, while Section 5 elaborates in broader terms, offering a clear and detailed description of the findings.

#### Section 8(b) Estimate of the Total Cost:

The total estimated cost of the drainage project is thoroughly detailed in Section 14 of the report, ensuring transparency and facilitating financial planning and cost-sharing among stakeholders. Additional detailed breakdowns of the costs are included in Schedule 'A' Schedule of Allowances, and Schedule 'B' Schedule of Estimated Construction Costs.

#### Section 8(c) Cost Assessment:

Schedule C methodically outlines the cost distribution by branch and assessment instrument, clearly detailing the financial responsibilities of each parcel of land and road for benefit, and outlet liability.

#### Section 8(d) Allowances for Land Owners:

Schedule A specifies the allowances to be paid to landowners affected by the drainage works, categorized by drain segment and allowance category, providing for fair compensation for disturbances and damages.

#### Other Prescribed Matters (Section 8(e)):

The report addresses additional statutory requirements, including environmental considerations, future maintenance of the drain (detailed in Schedule D and Sections 10, 12





of the report), and other structural and operational provisions necessary for the implementation of the drainage works.

## 8.2 Further Legal and Technical Compliance:

**Pipe Systems Capacity (Section 14), Sufficient Outlet (Section 15), and Disposal of Material (Section 16):** Design considerations (Section 6) and Special Provisions (Division H) ensure all technical aspects from pipe capacity to material disposal are handled according to current construction practices and legal standards.

**Structures and Access (Section 18):** Loss of access and the impact on crossings have been assessed, with appropriate measures and compensations detailed in Section 12.1 of the report.

**Fair and Impartial Reporting (Section 11 of the Drainage Act):** The drainage report has been prepared with utmost fairness and impartiality, adhering strictly to the professional standards required under the Act.

## 8.3 Conclusion

The drainage report fulfills all the prescribed requirements under the Drainage Act. The thorough attention to statutory details and the professional execution of engineering duties stress the reliability and legal soundness of the drainage solutions presented.

## 9.0 CONCLUSIONS

This Expert Report has rigorously examined the petition for the Bamberg Creek, Jananna, and Koch-Leis Municipal Drains project under the strict guidelines of the Drainage Act. The findings detailed herein affirm that:

### Definition of the Area Requiring Drainage (ARD):

The ARD is identified as part of the Jananna property (Lot 10, Concession 3, Block B) and is notably influenced by external waters entering from both the east and north sides. Additionally, there is a critical need for a legal outlet on the east side. The outlet for the existing tiling system, along with the proposed West Branch, requires extensive maintenance that can only be effectively addressed through Drainage Act intervention. Neighboring properties, in contrast, are enabled by natural drainage features, such as their riparian relationship with Bamberg Creek, which inherently supports their drainage needs without the need for further intervention under the Drainage Act. This expertly defined ARD stresses the necessity for targeted actions confined to the Jananna property.

### Validity of the Petition:

The petition is validated under Sections 4(1)(a) and 4(1)(b) of the Drainage Act, backed by a comprehensive engineering report that meets all the required legal and technical standards. The ARD, correctly identified as part of Lot 10, Concession 3, Block 'B', supports the implementation of necessary drainage works. This validation supports the scope of the drainage works as proposed, confirming that the petitioned area requires enhanced drainage solutions and the application of the Drainage Act. My conclusions are deeply rooted in both technical rationale and legal precedents, ensuring that the decisions made are not only scientifically sound but also legally robust. This dual foundation protects the rights of landowners and aligns with the procedural and substantive requirements of the Drainage Act.



**West Branch Works:**

The requirement for drainage works on the west side was inherent to the project's overall needs from the beginning. Although initial documentation and assessments provided a disproportionate focus on the eastern side, thorough investigations revealed the critical nature of addressing the western side as well. This revelation was not the result of a change in project scope but an unmasking of existing conditions that were always part of the comprehensive drainage strategy. The original petition inherently encompassed the necessary authority to undertake this work, affirming that no amendments were required to address these longstanding needs. This realization ensures that the entire scope of the project is understood as a cohesive and pre-authorized effort to enhance drainage efficiency across the Jananna property.

**Compliance with Section 8(1) of the Drainage Act:**

My report comprehensively addresses all requirements of subsection 8(1) of the Drainage Act. It includes detailed plans, profiles, specifications of the drainage works, accurate cost estimates, and a thorough assessment of cost allocations among affected parcels. This thorough documentation demonstrates full adherence to statutory mandates and confirms the project's legal and technical robustness.

**Engineer's Adherence to Duties:**

My role as the Drainage Engineer has been performed with diligence and fidelity to the principles of the Drainage Act. This included conducting an intensive review of the ARD, multiple site visits, and a comprehensive assessment of pertinent data. Additionally, the separation of genuine drainage needs from public dissent has been a critical aspect of my responsibilities, ensuring that decisions are made based on technical merit and legal rights rather than community sentiment. Throughout this process, the emphasis has been on upholding the rights of landowners by focusing on legitimate technical and legal drainage requirements. This approach safeguards landowner rights and ensures that drainage solutions are just and necessary.

The engineering decisions taken have been informed by a solid understanding of the Drainage Act and augmented by insights from historical referee decisions, ensuring that all actions are grounded in precedent and the spirit of the law.

**Closing:**

This report not only reinforces the technical and legal bases of the proposed drainage works but also highlights the commitment to preserving the rights and welfare of the landowners while adhering to the highest standards of engineering practice. The Drainage Act, with its robust framework, ensures that landowners receive fair and necessary drainage solutions, preventing the loss of their legal rights and promoting equitable water management practices.

By maintaining these rigorous standards, we ensure that drainage works under the Drainage Act not only resolve immediate water management issues but also provide sustainable, legally sound solutions that serve the community's long-term needs.

Respectfully submitted,

Stephen Brickman, P.Eng.  
Project Engineer and Manager  
**HEADWAY ENGINEERING**  
SB/



This is **EXHIBIT "B"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits



## **Stephen Brickman, P. Eng.**

President, Project Manager/Project Engineer  
Kitchener, Ontario

### **EXECUTIVE SUMMARY**

Regarded as a leading expert in Drainage Act engineering in Ontario, I bring unparalleled expertise to urban and rural drainage projects. With a robust foundation in civil engineering and specialized training in the intricacies of the Drainage Act, my professional journey is marked by a series of successful, high-impact projects that span the spectrum of drainage engineering. At the helm of Headway

Engineering, I am not just at the forefront of engineering design and implementation but also a driving force in elevating the standards of practice within the province.

My commitment extends beyond project execution to shaping the future of Drainage Act engineering through comprehensive public education, policy advocacy, and technological advancement. With a portfolio of educational content and active participation in policy development, I am dedicated to advancing understanding and application of the Drainage Act, ensuring sustainable and compliant development. My mission is to innovate, educate, and lead in the evolution of drainage engineering in Ontario.

### **EDUCATION**

Bachelor's Degree, Civil Engineering, Lakehead University 2012

Advanced Diploma of Civil Engineering Technology, Conestoga College, 2009

Drainage Superintendent's Course, Municipal Drainage, Ontario Ministry of Agriculture, Food and Rural Affairs 2009

### **MEMBERSHIPS**

Professional Engineers Ontario (PEO)

Ontario Society of Professional Engineers (OSPE)

OSPE Land Drainage Committee (LDC) – *Former Board Member*

Drainage Superintendents Association of Ontario (DSAO)

Program Development Advisory (PDAC) with Conestoga College (Environmental Engineering Degree Program)

### **PROFESSIONAL EXPERIENCE**

President, Headway Engineering, 2020 – Present

Project Manager, Dietrich Engineering Limited, 2012 – 2021

Professor, Conestoga College, 2016

Engineering Support, Gamsby and Mannerow (Now GEI), 2011

### **KNOWLEDGE BASE CONTRIBUTIONS**

Headway Engineering Education Centre

Founded and contributed to the production of educational media aimed at demystifying the Drainage Act for the public and professionals.

“50 Years in the Making – Rehabilitation of the Royal Oak Municipal Drain”

2023: Proceedings from the 2023 Source to Stream Conference

“What Everyone Ought to Know about Ditch Enclosures”

2018: Proceedings from the 2018 Drainage Engineers Conference



## RELEVANT PROJECT EXPERIENCE

2024	<u>Harriston Flood Mitigation Project (HFMP)</u>
<b>Client</b>	Town of Minto
<b>Key Points</b>	<ul style="list-style-type: none"><li>• Project Initiation:<ul style="list-style-type: none"><li>○ The Town hired Headway Engineering to evaluate if the Drainage Act is suitable for large-scale construction works in the Maitland River, leading to their engagement for design work rather than appointment under the Drainage Act.</li></ul></li><li>• Hydrologic and hydraulic modelling</li><li>• Design including:<ul style="list-style-type: none"><li>○ Conceptual Options</li><li>○ Determining Preferred Option</li><li>○ Detailed Design</li></ul></li><li>• Cost Estimating including:<ul style="list-style-type: none"><li>○ Right-of-Way Allowances</li><li>○ Damage Allowances</li><li>○ Construction</li><li>○ Engineering</li><li>○ Environmental Permitting</li><li>○ Tendering, Construction Supervision, Contract Administration</li><li>○ Administration</li></ul></li><li>• Develop Cost Distributions Scenarios</li><li>• Public and Stakeholder Consultations and presentations</li><li>• Design Reporting</li><li>• Funding Applications and Reporting</li><li>• Recommendations on Next Steps, specifically regarding the use of the Drainage Act as a vehicle to implement flood mitigation works.</li></ul>
<b>Brief Description</b>	Stephen is the Project Manager and Engineer for the Harriston Flood Mitigation Project in Minto. Stephen is working closely with Conservation Authority Staff and other engineering consultants. The Maitland River passes through the centre of Harriston and is not equipped with adequate capacity to safely convey extreme weather events through the town. Stephen developed complicated hydrologic and hydraulic models to accurately predict the response of the 27,000 acre watershed which includes a significant network of wetlands.
2023	<u>Bishop Municipal Drain</u>
<b>Client</b>	Township of Norwich
<b>Key Points</b>	<ul style="list-style-type: none"><li>• Appointed under the Drainage Act to Prepare an Engineer's Report</li><li>• Project Initiation: Section 4 Petition</li><li>• Design</li><li>• Project Cost Estimating</li><li>• Develop Cost Distributions</li><li>• Public and Stakeholder Consultations and presentations</li><li>• Drainage Report Preparation</li><li>• Drainage Act Administration</li><li>• Supervision of Construction Inspection and Contract Administration</li></ul>
<b>Brief Description</b>	Landowners upstream of an existing municipal drain, in need of legal outlets, initiated this project. As the project progressed, it became clear that the existing municipal drainage system was inadequate, necessitating a comprehensive upgrade.





2022 <u>Regional Road 21 Municipal Drain</u>	
<b>Client</b>	Norfolk County
<b>Key Points</b>	<ul style="list-style-type: none"><li>• Appointed under the Drainage Act to Prepare an Engineer's Report</li><li>• Project Initiation: Section 4 Petition</li><li>• Hydrologic and hydraulic modelling</li><li>• Design</li><li>• Project Cost Estimating</li><li>• Develop Cost Distributions</li><li>• Public and Stakeholder Consultations and presentations</li><li>• Drainage Report Preparation</li><li>• Drainage Act Administration</li><li>• Supervision of Construction Inspection and Contract Administration</li></ul>
<b>Brief Description</b>	A developer initiated the need for an improved outlet at the upper end of an existing municipal drain. Additionally, the project offers legal outlets to roads owned by the County. The project included the complete reconstruction of over 500m of regional road, and the rehabilitation of a ravine in sensitive habitat.

2021 <u>Bruce Beach Municipal Drain – Phase I</u>	
<b>Client</b>	Township of Huron-Kinloss
<b>Key Points</b>	<ul style="list-style-type: none"><li>• Appointed under the Drainage Act to Prepare an Engineer's Report</li><li>• Project Initiation: Section 4 Petition</li><li>• Hydrologic and hydraulic modelling</li><li>• Design</li><li>• Project Cost Estimating</li><li>• Develop Cost Distributions</li><li>• Extensive Public and Stakeholder Consultations and presentations</li><li>• Drainage Report Preparation</li><li>• Funding Applications</li><li>• Drainage Act Administration</li><li>• Expert Witness at Tribunal Hearing</li><li>• Supervision of Construction Inspection and Contract Administration</li></ul>
<b>Brief Description</b>	Lands along the lakefront, primarily used for cottages, were experiencing frequent flooding, causing hundreds of thousands of dollars in damage per event. The frequency of these floods was escalating due to runoff from a large watershed area being funneled into a ravine and then into a relatively flat area, leading to flooding. The project, aimed at addressing this issue, involved improvements to a large ravine and encompassed approximately 150 properties. These properties ranged from seasonal and permanent cottage use to permanent residential, roads, and agricultural lands. Since its construction, the project has withstood several significant rainfall events, including one that surpassed a 1:100 year event, ensuring everyone's safety and demonstrating its effectiveness.



## ADDITIONAL PROJECT EXPERIENCE

### Completed Drainage Reports Prepared for Petition Drains (Section 4)

Year	Municipality	Drain Name
2024	Norfolk County	Mills-South Norwich Municipal Drain
2024	Municipality of Morris-Turnberry	Grant Municipal Drain
2023	Township of Norwich	Branch 'B' & 'C' of the Springford Municipal Drain
2023	Township of South-West Oxford	Greenworld Municipal Drain
2023	Township of Norwich	Bishop Municipal Drain
2023	Municipality of Central Huron	Gross Municipal Drain
2023	Township of Wilmot	Bamberg Creek, Jananna and Koch-Leis Municipal Drains
2022	Norfolk County	Regional Road 21 Municipal Drain
2022	Township of Wilmot	Queen Street Municipal Drain
2022	Municipality of Bluewater	Centennial Municipal Drain
2022	Municipality of Bluewater	Love Municipal Drain
2021	Township of Huron-Kinloss	Bruce Beach Municipal Drain – Phase 1
2020	Municipality of Brockton	Koelen Municipal Drain
2020	Municipality of Thames Centre	Ankor & Helder Municipal Drains
2019	Municipality of Brockton	Van Nes Municipal Drain
2019	Township of Howick	Berlett-Gibson Municipal Drain
2019	Town of Minto	Municipal Drains No. 20 & 117
2018	Municipality of Bluewater	Troyer-Jacobs Municipal Drain
2018	Township of Huron-Kinloss	Martin Municipal Drain
2018	Township of Huron-Kinloss	MacIntyre Municipal Drain
2018	Township of Perth East	Zehr Municipal Drain
2018	Township of Perth East	Claassen Municipal Drain
2017	Township of Perth East	Branch 'E' of the McNamara Municipal Drain
2017	Township of Wilmot	Cressman & Don Myers Municipal Drains
2016	Township of Huron-Kinloss	Royal Oak Municipal Drain*
2016	Township of Wilmot	Lichti Municipal Drain
2016	Township of Norwich	Griswold & Losee-Veld Municipal Drains*
2016	Township of Norwich	Easton-Foster Municipal Drain*
2015	Township of Wilmot	Trussler Road Municipal Drain*
2014	Township of Ashfield-Colborne-Wawanosh	Curran Municipal Drain*
2014	Municipality of Thames Centre	Bailey Municipal Drain*
2014	Township of Norwich	Swance, Kellett & W.E. Russell Municipal Drains*

\* Denotes report prepared but not sealed by Stephen Brickman.





### Completed Drainage Reports Prepared for Improvement Drains (Section 78)

Year	Municipality	Drain Name
2024	Municipality of Morris-Turnberry	McArthur Municipal Drain
2023	Municipality of Huron East	Clark & McTaggart Municipal Drains
2023	Township of Howick	Municipal Drain No. 10
2023	Township of Huron-Kinloss	Van Diepenbeek Municipal Drain
2023	Municipality of Central Huron	Gross Municipal Drain **
2023	Municipality of Central Huron	Harding Municipal Drain
2023	Municipality of Morris-Turnberry	Schwartzentruber Municipal Drain
2022	Municipality of Bluewater	Love Municipal Drain **
2022	Township of Perth South	Van Ness Municipal Drain
2021	Township of Norwich	Petersen Municipal Drain
2021	Township of Huron-Kinloss	Sutton Municipal Drain
2021	Norfolk County	Fourth Concession Municipal Drain
2020	Township of Wainfleet	Indian Creek Municipal Drain
2020	Township of Huron-Kinloss	Emerson Municipal Drain
2020	Town of Minto and Municipality of West Grey	Shannon Municipal Drain & Municipal Drains No. 30 & 52
2020	Township of Ashfield-Colborne-Wawanosh	Warren Zinn Municipal Drain
2020	Municipality of Thames Centre	Ankor & Helder Municipal Drains**
2020	Municipality of Thames Centre	Switzer Municipal Drain
2020 (and 2018)	Municipality of South Bruce	Filsinger Municipal Drain
2019	Township of Perth East	Thiel Municipal Drain
2019	Township of Perth East	Cossey Municipal Drain
2019	Township of Huron-Kinloss	MacIntyre Municipal Drain
2019	Township of Perth East	Signer & Bakery Municipal Drain
2019	Town of Minto	Municipal Drain No. 23
2019	Township of Howick	Berlett-Gibson Municipal Drain**
2019	Township of Ashfield-Colborne-Wawanosh	Wilkins Municipal Drain
2018	Township of Perth East	Harbey-Nauta Municipal Drain
2018	Township of Perth South	Armstrong Municipal Drain
2018	Township of Huron-Kinloss	McDougall Municipal Drain
2017	Township of Wilmot	Cressman & Don Myers Municipal Drains**
2017	Township of Perth East	Shakespeare Municipal Drain
2017	Municipality of Bluewater	Brenner Municipal Drain
2017	Township of Ashfield-Colborne-Wawanosh	Van Beets Municipal Drain
2017	Norfolk County	Fourth Concession Municipal Drain
2016	Township of Ashfield-Colborne-Wawanosh	Fitzgerald Municipal Drain*
2016	Township of Perth East	Ryter-Pugh Municipal Drain*
2016	Township of Norwich	Easton-Foster Drain**
2016	Township of Perth East	Bauman Municipal Drain*
2016	Township of Perth East	South Branch of the Rose Municipal Drain*
2015	Norfolk County	Boc Municipal Drain*
2014	Municipality of Thames Centre	Bailey Municipal Drain**
2014	Township of Norwich	Swance, Kellett & W.E. Russell Municipal Drains**
2014	Municipality of South Huron	Simmons Municipal Drain*
2014	Township of Perth East	Stock Municipal Drain*

\* Denotes report prepared but not sealed by Stephen Brickman.

\*\* Denotes report authorized under Section 4, as well as Section 78.



### Completed Drainage Reports Prepared under Other Sections of the Drainage Act

Year	Municipality	Drain Name	Drainage Act Section
2023	Township of Woolwich	Municipal Drain No. 11	Section 76
2021	Township of Ashfield-Colborne-Wawanosh	Gully Project	Section 4 & Section 40
2020	Township of Ashfield-Colborne-Wawanosh	Amberley Beach Road	Section 4 & Section 40
2019	Township of Ashfield-Colborne-Wawanosh	Branch 'A' of the Huron Sands Municipal Drain	Section 76
2017	Township of Wilmot	Cressman & Don Myers Municipal Drains	Section 4, 78, and 40
2017	Norfolk County	Cooper Municipal Drain	Section 76
2015	Municipality of Bluewater	East and West Branches of the Black Creek Drain*	Section 76
2015	Township of Perth East	Avon Municipal Drain*	Section 76

\* Denotes reports prepared but not sealed by Stephen Brickman.

### Expert Witness Experience

Year	Municipality	Drain Name	Appeal Body
2022	Township of Huron-Kinloss	Bruce Beach Municipal Drain - Phase 1	Tribunal
2021	Township of South Bruce	Filsinger Municipal Drain	Referee
2020	Township of South Bruce	Filsinger Municipal Drain	Tribunal
2016	Township of Huron-Kinloss	Royal Oak Municipal Drain	Tribunal
2008	Norfolk County	Gamble Municipal Drain Note: Witness (not Expert Witness)	Tribunal



This is **EXHIBIT "C"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits



**Petition for Drainage Works by Owners  
 Form 1**
*Drainage Act, R.S.O. 1990, c. D.17, clause 4(1)(a) or (b)*

This form is to be used to petition municipal council for a new drainage works under the *Drainage Act*. It is not to be used to request the improvement or modification of an existing drainage works under the *Drainage Act*.

 To: The Council of the Corporation of the Township of Wilmot


The area of land described below requires drainage (provide a description of the properties or the portions of properties that require drainage improvements)

N1/2 Lot 10, Concession 3B, 1184 Gerber Road

 In accordance with section 9(2) of the *Drainage Act*, the description of the area requiring drainage will be confirmed or modified by an engineer at the on-site meeting.

 As owners of land within the above described area requiring drainage, we hereby petition council under subsection 4(1) of the *Drainage Act* for a drainage works. In accordance with sections 10(4), 43 and 59(1) of the *Drainage Act*, if names are withdrawn from the petition to the point that it is no longer a valid petition, we acknowledge responsibility for costs.

**Purpose of the Petition** (To be completed by one of the petitioners. Please type/print)

Contact Person (Last Name) <u>Gawron</u>	(First Name) <u>Lucy</u>	Telephone Number 
---	-----------------------------	---

Address	
Road/Street Number <u>1184</u>	Road/Street Name <u>Gerber Road</u>

Location of Project			
Lot <u>N1/2 Lot 10</u>	Concession <u>3B</u>	Municipality <u>Wilmot</u>	Former Municipality (if applicable)

What work do you require? (Check all appropriate boxes)

- Construction of new open channel
- Construction of new tile drain
- Deepening or widening of existing watercourse (not currently a municipal drain)
- Enclosure of existing watercourse (not currently a municipal drain)
- Other (provide description ▼)

 Name of watercourse (if known)  
not applicable

 Estimated length of project  
500m

 General description of soils in the area  
clay loam

What is the purpose of the proposed work? (Check appropriate box)

- Tile drainage only
- Surface water drainage only
- Both

 Petition filed this \_\_\_\_\_ day of \_\_\_\_\_, 20 21

Name of Clerk (Last, first name) <u>Mittelholtz, Dawn</u>	Signature
--	-----------

**Property Owners Signing The Petition**

Page of

- Your municipal property tax bill will provide the property description and parcel roll number.
- In rural areas, the property description should be in the form of (part) lot and concession and civic address.
- In urban areas, the property description should be in the form of street address and lot and plan number if available.
- If you have more than two properties, please take copy(ies) of this page and continue to list them all.

Number	Property Description
1	N1/2 Lot 10, Concession 3B

Ward or Geographic Township	Parcel Roll Number
Wilmot	3018-090-009-164

I hereby petition for drainage for the land described and acknowledge my financial obligations.

Ownership

Sole Ownership

Owner Name (Last, First Name) (Type/Print)	Signature	Date (yyyy/mm/dd)
--	-----------	-------------------

Partnership (Each partner in the ownership of the property must sign the petition form)

Owner Name (Last, First Name) (Type/Print)	Signature	Date (yyyy/mm/dd)

Corporation (The individual with authority to bind the corporation must sign the petition)

Name of Signing Officer (Last, First Name) (Type/Print)

Krupnik, Walter

Signature

[Redacted Signature]

Name of Corporation

Jananna Corp

Position Title

President

Date (yyyy/mm/dd)

2021/04/26

Number	Property Description
--------	----------------------

Ward or Geographic Township	Parcel Roll Number
-----------------------------	--------------------

I hereby petition for drainage for the land described and acknowledge my financial obligations.

Ownership

Sole Ownership

Owner Name (Last, First Name) (Type/Print)	Signature	Date (yyyy/mm/dd)
--	-----------	-------------------

Partnership (Each partner in the ownership of the property must sign the petition form)

Owner Name (Last, First Name) (Type/Print)	Signature	Date (yyyy/mm/dd)

Corporation (The individual with authority to bind the corporation must sign the petition)

Name of Signing Officer (Last, First Name) (Type/Print)

Name of Corporation

Position Title

Signature

I have the authority to bind the Corporation.

Date (yyyy/mm/dd)

Check here if additional sheets are attached

Clerk initial

**Petitioners become financially responsible as soon as they sign a petition.**

- Once the petition is accepted by council, an engineer is appointed to respond to the petition. *Drainage Act*, R.S.O. 1990, c. D. 17 subs. 8(1).
- After the meeting to consider the preliminary report, if the petition does not comply with section 4, the project is terminated and the original petitioners are responsible in equal shares for the costs. *Drainage Act*, R.S.O. 1990, c. D. 17 subs. 10(4).
- After the meeting to consider the final report, if the petition does not comply with section 4, the project is terminated and the original petitioners are responsible for the costs in shares proportional to their assessment in the engineer's report. *Drainage Act*, R.S.O. 1990, c. D. 17 s. 43.
- If the project proceeds to completion, a share of the cost of the project will be assessed to the involved properties in relation to the assessment schedule in the engineer's report, as amended on appeal. *Drainage Act*, R.S.O. 1990, c. D. 17 s. 61.

**Notice of Collection of Personal Information**

Any personal information collected on this form is collected under the authority of the *Drainage Act*, R.S.O. 1990, c. D.17 and will be used for the purposes of administering the Act. Questions concerning the collection of personal information should be directed to: where the form is addressed to a municipality (*municipality to complete*)

and where the form is addressed to a territory without municipal organization, the Drainage Coordinator, Ministry of Agriculture, Food and Rural Affairs, 1 Stone Rd W, Guelph ON N1G 4Y2, 519 823-3552.





# Region of Waterloo

## Legend

- Addresses
- Assessment Parcels



458.6 0 229.31 458.6 Meters

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere  
© Regional Municipality of Waterloo, 2013

Parcels © Teranet Land Information Services Inc. and its licensors, 2013  
May not be reproduced without permission. THIS IS NOT A PLAN OF SURVEY

THIS MAP IS NOT TO BE USED FOR NAVIGATION

## Notes

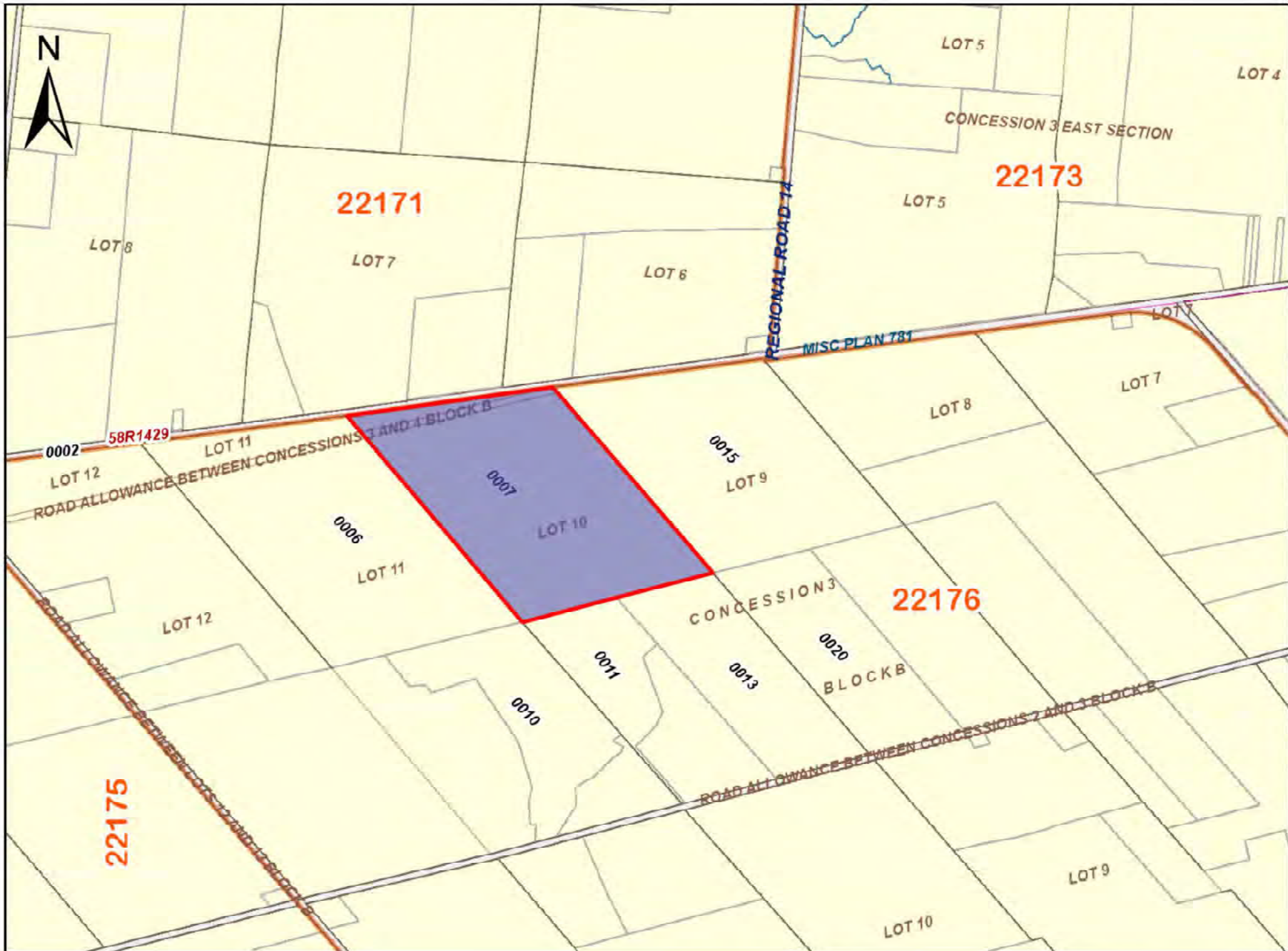
Gawron petition  
2018 aerial photo

This is **EXHIBIT "D"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits





**PROPERTY INDEX MAP**  
WATERLOO(No. 58)

**LEGEND**

FREEHOLD PROPERTY	
LEASEHOLD PROPERTY	
LIMITED INTEREST PROPERTY	
CONDOMINIUM PROPERTY	
RETIRED PIN (MAP UPDATE PENDING)	
PROPERTY NUMBER	0449
BLOCK NUMBER	08050
GEOGRAPHIC FABRIC	
EASEMENT	

**THIS IS NOT A PLAN OF SURVEY**

**NOTES**

REVIEW THE TITLE RECORDS FOR COMPLETE PROPERTY INFORMATION AS THIS MAP MAY NOT REFLECT RECENT REGISTRATIONS

THIS MAP WAS COMPILED FROM PLANS AND DOCUMENTS RECORDED IN THE LAND REGISTRATION SYSTEM AND HAS BEEN PREPARED FOR PROPERTY INDEXING PURPOSES ONLY

FOR DIMENSIONS OF PROPERTIES BOUNDARIES SEE RECORDED PLANS AND DOCUMENTS

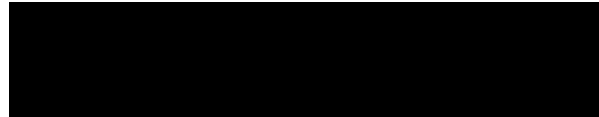
ONLY MAJOR EASEMENTS ARE SHOWN

REFERENCE PLANS UNDERLYING MORE RECENT REFERENCE PLANS ARE NOT ILLUSTRATED





This is **EXHIBIT "E"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits

LAND  
REGISTRY  
OFFICE #58

22176-0007 (LT)

\* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT \* SUBJECT TO RESERVATIONS IN CROWN GRANT \*

**PROPERTY DESCRIPTION:** PT LT 10 BLK B CON 3 WILMOT; PT LT 10 BLK B CON 4 WILMOT; PT RDAL BTN CONS 3 & 4 BLK B WILMOT CLOSED BY BY-LAW 427836, AS IN 154090; WILMOT

**PROPERTY REMARKS:**

**ESTATE/QUALIFIER:**

FEE SIMPLE  
LT CONVERSION QUALIFIED

**RECENTLY:**

RE-ENTRY FROM 22176-0062

**PIN CREATION DATE:**

2002/08/19

**OWNERS' NAMES**

JANANNA CORP

**CAPACITY SHARE**

ROWN

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2002/08/16 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES * AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY CONVENTION.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 2002/08/19 **</p>						
154090	1957/05/10	TRANSFER		*** DELETED AGAINST THIS PROPERTY ***	GAWRON, JAN	
622775	1978/03/13	LEASE			J. B. MCCLUSKY LTD.	C
		REMARKS: & GRANT				
664738	1979/08/30	ASSIGNMENT LEASE			CCH RESOURCES LTD. PETROMARK MINERALS LTD. SCEPTRE RESOURCES LTD. DOME PETROLEUM LIMITED	C
		REMARKS: MULTI				
719578	1982/01/15	ASSIGNMENT LEASE			PETROMARK MINERALS LTD. INVERNESS PETROLEUM LTD. SCEPTRE RESOURCES LIMITED DOME PETROLEUM LIMITED	C
		REMARKS: MULTI SURRENDER OF LEASE				
<p>CORRECTIONS: 'PARTY: J. B. MCCLUSKY LIMITED' DELETED ON 2005/10/24 BY SUSAN SIMPSON. 'PARTY: PETROMARK MINERALS LTD.' ADDED ON 2005/10/24 BY SUSAN SIMPSON. 'PARTY: INVERNESS PETROLEUM LTD.' ADDED ON 2005/10/24 BY SUSAN SIMPSON. 'PARTY: SCEPTRE RESOURCES LIMITED' ADDED ON 2005/10/24 BY SUSAN</p>						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND  
REGISTRY  
OFFICE #58

22176-0007 (LT)

PREPARED FOR ThomasUl  
ON 2024/06/12 AT 13:34:18

\* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT \* SUBJECT TO RESERVATIONS IN CROWN GRANT \*

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
<i>SIMPSON. 'PARTY: DOME PETROLEUM LIMITED' ADDED ON 2005/10/24 BY SUSAN SIMPSON.</i>						
LT94082	2002/11/14	TRANSFER		*** COMPLETELY DELETED *** GAWRON, JAN	GAWRON, JAN GAWRON, ANNA	
WR802119	2014/02/05	TRANSMISSION-LAND		*** COMPLETELY DELETED *** GAWRON, ANNA GAWRON, JAN	GAWRON, THERESA GAWRON, CHRISTINE SCHNEIDER, IRENE	
WR802120	2014/02/05	TRANS PERSONAL REP	\$2	GAWRON, THERESA GAWRON, CHRISTINE SCHNEIDER, IRENE	JANANNA CORP	C

This is **EXHIBIT "F"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits

LAND  
REGISTRY  
OFFICE #58

22176-0015 (LT)

\* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT \* SUBJECT TO RESERVATIONS IN CROWN GRANT \*

**PROPERTY DESCRIPTION:** PT LT 9 BLK B CON 3 WILMOT AS IN 727770; WILMOT

**PROPERTY REMARKS:**

**ESTATE/QUALIFIER:**

FEE SIMPLE  
LT CONVERSION QUALIFIED

**RECENTLY:**

RE-ENTRY FROM 22176-0070

**PIN CREATION DATE:**

2002/08/19

**OWNERS' NAMES**

KITTEL, CORY LEE  
KITTEL, KIRBY LYNN TIFFANY

**CAPACITY SHARE**

JTEN 50% SHARE  
JTEN 50% SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p><b>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2002/08/16 **</b></p> <p><b>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</b></p> <p><b>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES * AND ESCHEATS OR FORFEITURE TO THE CROWN.</b></p> <p><b>** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY CONVENTION,</b></p> <p><b>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</b></p> <p><b>**DATE OF CONVERSION TO LAND TITLES: 2002/08/19 **</b></p>						
395100	1969/04/10	TRANSFER		*** COMPLETELY DELETED ***	KITTEL, EDGAR KITTEL, WILFRED BRENNER, MARY	
727770	1982/06/17	TRANSFER		*** DELETED AGAINST THIS PROPERTY ***	KITTEL, WILFRED KITTEL, WILFRED KITTEL, EDGAR - ESTATE	
<p><b>CORRECTIONS: 'TRANSFeree: KITTEL, EDGAR' DELETED ON 2002/08/14 BY LINA LAPELLA. 'TRANSFeree' CHANGED FROM 'KITTEL, EDGAR (ESTATE)' TO 'KITTEL, EDGAR - ESTATE' ON 2003/10/02 BY KIM CLARK.</b></p>						
WR448936	2009/03/11	TRANSFER		KITTEL, EDGAR ESTATE OF KITTEL, WILFRED KITTEL, WILFRED	KITTEL, JEREMY NICHOLAS KITTEL, CORY LEE KITTEL-MCCORMICK, ROSEMARY HELEN KITTEL, WILFRED NICHOLAS KITTEL, DONNA MARYANN	C
WR1124859	2018/07/12	APL OF SURV-LAND		KITTEL, WILFRED NICHOLAS	KITTEL, JEREMY NICHOLAS	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

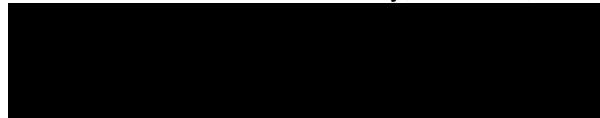


\* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT \* SUBJECT TO RESERVATIONS IN CROWN GRANT \*

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
WR1124860	2018/07/12	TRANSFER		KITTEL, CORY LEE	KITTEL, CORY LEE KITTEL-MCCORMICK, ROSEMARY HELEN KITTEL, DONNA MARYANN	C
WR1124861	2018/07/12	TRANSFER		KITTEL, CORY LEE	KITTEL, CORY LEE KITTEL, KIRBY LYNN TIFFANY	C
WR1124862	2018/07/12	TRANSFER	\$400,000	KITTEL-MCCORMICK, ROSEMARY HELEN	KITTEL, CORY LEE KITTEL, KIRBY LYNN TIFFANY	C
WR1129608	2018/08/03	TRANSFER	\$300,000	KITTEL, JEREMY NICHOLAS KITTEL, DONNA MARYANN	KITTEL, CORY LEE KITTEL, KIRBY LYNN TIFFANY	C
WR1391437	2021/11/16	CHARGE	\$700,000	KITTEL, CORY LEE KITTEL, KIRBY LYNN TIFFANY	ROYAL BANK OF CANADA	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.  
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

This is **EXHIBIT "G"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits



## INFORMATION AND LEGISLATIVE SERVICES *Staff Report*

---

REPORT NO: ILS 2021-27

TO: Council

SUBMITTED BY: Dawn Mittelholtz, Director of Information and Legislative Services /  
Municipal Clerk

PREPARED BY: Tracey Murray, Manager of Information and Legislative Services /  
Deputy Clerk

REVIEWED BY: Sandy Jackson, Interim CAO

DATE: July 12, 2021

SUBJECT: Appointment of Drainage Engineer  
1184 Gerber Road, N ½ Lot 10, Concession 3B  
Township of Wilmot

---

### RECOMMENDATION:

THAT Headway Engineering be appointed as Drainage Engineer to prepare the Engineer's Report relative to the petition for drainage works received from Lucy Gawron, 1184 Gerber Road, N ½ Lot 10, Concession 3B, Township of Wilmot.

### SUMMARY:

For the Gawron Petition Drain, the next step is to appoint a Drainage Engineer to complete the Engineer's Report. Council is being asked to appoint Headway Engineering for this drain.

### BACKGROUND:

Lucy Gawron submitted and file a petition with the Clerk on April 27, 2021, to construct a new tile drain for the following lands: N ½ Lot 10, Concession 3B, 1184 Gerber Road, Township of Wilmot.

---

\*\*\*This information is available in accessible formats upon request\*\*\*

**REPORT:**

Following the acceptance of the petition by Council, staff forwarded the notice to the petitioner and the required agencies; the Grand River Conservation Authority and the Ministry of Natural Resources and Forestry. At the time of writing this report, no comments have been received from the agencies noted above.

If appointed, the Drainage Engineer will conduct a site meeting where all property owners within the drainage watershed area will be invited to discuss the matter, ask questions and learn about the process.

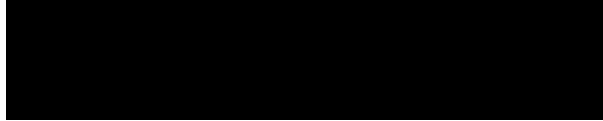
**ALIGNMENT WITH THE TOWNSHIP OF WILMOT STRATEGIC PLAN:**

The appointment of the Drainage Engineer and continued application of the Drainage Act supports the infrastructure within the municipality.

**FINANCIAL CONSIDERATIONS:**

If the municipal drainage works proceed pursuant to the Drainage Act, then the property owners that are affected would be assessed in accordance with the assessment schedule that will be prepared by the Engineer as part of their report. At this time, there are no financial considerations.

This is **EXHIBIT "H"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits





## **Council Meeting Minutes**

**Monday, July 12, 2021**

**Council Meeting**

**Electronic Online Participation**

**7:00 P.M.**

Members Present: Mayor L. Armstrong, Councillors A. Hallman, C. Gordijk, B. Fisher, J. Gerber and J. Pfenning

Staff Present: Acting Chief Administrative Officer / Director of Parks, Facilities and Recreation S. Jackson, Director of Information and Legislative Services D. Mittelholtz, Director of Public Works J. Molenhuis, Director of Development Services H. O’Krafka, Director of Corporate Services / Treasurer P. Kelly, Fire Chief R. Leeson, Director / Curator Castle Kilbride T. Loch, Manager of Information and Legislative Services / Deputy Clerk T. Murray

**1. MOTION TO CONVENE INTO CLOSED MEETING (IF NECESSARY)**

**2. MOTION TO RECONVENE IN OPEN MEETING (IF NECESSARY)**

**3. MOMENT OF SILENCE**

**4. LAND ACKNOWLEDGEMENT**

**5.1 Councillor B. Fisher read the Land Acknowledgement.**

**5. ADDITIONS TO THE AGENDA**

**5.1 Consent Agenda – Item 11.4 Report PW 2021-015 Guide Rail Program – Award of Contract**

**Resolution No. 2021-144**

**Moved by: Councillor J. Pfenning      Seconded by: Councillor C. Gordijk**

THAT Item 11.4 be added to the agenda under CONSENT as Report PW 2021-015 Guide Rail Program – Award of Contract.

\*\*\*This information is available in accessible formats upon request\*\*\*

CARRIED.

**6. DISCLOSURE OF PECUNIARY INTEREST UNDER THE MUNICIPAL CONFLICT OF INTEREST ACT**

None disclosed.

**7. MINUTES OF PREVIOUS MEETINGS**

**7.1 Council Meetings Minutes Monday June 28, 2021, and July 5, 2021**

**Resolution No. 2021-145**

**Moved by: Councillor A. Hallman      Seconded by: Councillor C. Gordijk**

THAT the minutes of the following meetings be adopted as presented:

Regular Council Meeting June 28, 2021, and Special Council Meeting July 5, 2021.

CARRIED. AS AMENDED.

Mayor L. Armstrong advised that staff received Councillor A. Hallman's written statement from the July 5, 2021, Special Council Meeting after the Council Agenda Package was released and that the minutes will be amended to include that statement.

**8. PUBLIC MEETINGS**

**9. PRESENTATIONS**

**9.1 Mike Schout Wetlands**

**Phil Holst**

**9.1.1 REPORT DS 2021-24**

**Mike Schout Wetland Preserve**

**Approvals Update**

**Resolution No. 2021-146**

**Moved by: Councillor C. Gordijk      Seconded by: Councillor A. Hallman**

THAT Report DS 2021-24 be received for information.

CARRIED.

The Director of Development Services outlined the report and introduced Phil Holst.

Mr. Holst provided an update on the Wetland Preserve, advising that on or about August 9<sup>th</sup> a permit from the Grand River Conservation Authority (GRCA) is expected to continue works. Currently, site preparation is being done for seeding in October, at which time approximately 30 acres of the 50 acres should be seeded with pollinator plants, with the lower section being wet meadow plantings. This past spring 4200 seedlings were planted by GRCA.

Mr. Holst advised that they will be inviting some of the local volunteer groups to assist with tree planting and educational tours.

It was also advised that installs of nesting platforms for blue herons, turtle nesting mounds, snake hibernaculum, and various birdhouses will be completed to promote an increase in the amount of wildlife.

Mr. Holst advised Council that it is not often that a project of this size and scale in a subdivision is proposed. He stated this project is very unique and has the potential to serve as inspiration for other communities.

Mr. Holst explained that deep water is considered to be 2 meters in depth, as this allows for the needs of wildlife for hibernation.

The Acting CAO advised that staff can investigate potential pollination planting on Township properties.

## **10. DELEGATIONS**

## **11. CONSENT AGENDA**

### **11.1 REPORT NO. ILS 2021-28**

**Noise By-law Exemptions**

**The Community Players (TCP)**

### **11.2 REPORT NO. ILS 2021-27**

**Appointment of Drainage Engineer**

**1184 Gerber Road, N ½ Lot 10, Concession 3B**

**Township of Wilmot**

**11.3 REPORT NO. ILS 2021-29**

**Acceptance of Petition Drain and Appointment of Engineer**

**Derek Bruyn**

**2043 Bean Road, N ½ 30, Concession 3A**

**Township of Wilmot**

**11.4 REPORT NO. PW 2021.015**

**Guide Rail Program – Award of Contract**

**Resolution No. 2021-147**

**Moved by: Councillor J. Gerber**

**Seconded by: Councillor B. Fisher**

THAT Report Nos. ILS 2021-28, ILS 2021-27, ILS 2021-29 and PW 2021-.015 be approved.

CARRIED.

**12. REPORTS**

**12.1 INFORMATION AND LEGISLATIVE SERVICES**

**12.1.1 REPORT NO. ILS 2021-30**

**Proposed Procedural By-law**

**Resolution No. 2021-148**

**Moved by: Councillor J. Pfenning**

**Seconded by: Councillor C. Gordijk**

THAT Report No. ILS 2021-30 be endorsed.

CARRIED. AS AMENDED.

The Director of Information and Legislative Services outlined the report.

The Director of Information and Legislative Services confirmed that Item 8.12, subsection A, can be changed to read the Chair shall determine by order of hand raised and administer the speaking order of Council.

The Director of Information and Legislative Services advised that staff have been having conversations on how to make these changes easily accessed and understood on the website and that the Land Acknowledgement will be posted in a more accessible location on the website.

The Acting CAO advised that one of the directions that came from the Special Council Meeting of July 5<sup>th</sup> was the community engagement improvements and noted that staff will be looking at when a public information centre may be a more appropriate in terms of hearing feedback from the public.

The Director of Information and Legislative Services advised that delegations do not propose recommendations to Council, rather they go through a member of Council to bring that forward or at the discretion of the Chair. It was also noted that staff work with delegations to assist them in navigating the rules of the By-law.

The Acting CAO confirmed that the solicitor did a thorough review of the By-law.

### **12.1.2 REPORT NO. ILS 2021-12**

#### **Records Retention**

#### **Resolution No. 2021-149**

**Moved by: Councillor J. Gerber**

**Seconded by: Councillor A. Hallman**

THAT Council By-law 2021-37, a By-law to provide a schedule of retention periods for the records of the Township of Wilmot be approved and to repeal By-law No. 92-54.

CARRIED.

The Manager of Information and Legislative Services outlined the report.

The Acting CAO advised that the information being tracked through the 80x50 program will include additional tracking from the Sustainability Committee and the Director of Corporate Services advised that there is a third party tool that also tracks all data and records.

## **12.2 CORPORATE SERVICES**

### **12.2.1 REPORT NO. COR 2021-026**

#### **Development Charges Update Study**



**Resolution No. 2021-150****Moved by: Councillor C. Gordijk****Seconded by: Councillor B. Fisher**

THAT the Development Charges Background Study, prepared by Watson & Associates Economists Ltd., as amended, be approved; and further,

THAT Council deems that no further public meeting is required; and

THAT the 2021 Development Charges by-law be approved, with an effective date of August 31, 2021.

CARRIED.

The Director of Corporate Services outlined the report.

The Acting CAO advised that the Region is currently going through a planning exercise of Library services and that an update is expected in early Fall.

**12.3 PUBLIC WORKS AND ENGINEERING****12.3.1 REPORT NO. PW 2021-014****Wilmot-Waterloo Boundary Road Maintenance Agreement****Resolution No. 2021-151****Moved by: Councillor J. Pfenning****Seconded by: Councillor B. Fisher**

THAT Council approve and enter into an agreement with the City of Waterloo for the maintenance, repair and capital services for Wilmot Line; and further,

THAT the Mayor and Clerk be authorized to execute the attached Boundary Road Agreement between the City of Waterloo and the Township of Wilmot.

CARRIED.

The Director of Public Works and Engineering outlined the report.

The Director of Public Works and Engineering noted that there is an obligation to consult with various Indigenous Communities and other community partners.

The Director of Public Works and Engineering explained that an environmental assessment consists of a study and a report that looks at options for upgrades to consider for any given project.

**12.4 DEVELOPMENT SERVICES**

**12.4.1 REPORT NO. DS 2021-023**

**Aggregate Zoning Status Review**

**Resolution No. 2021-152**

**Moved by: Councillor J. Pfenning      Seconded by: Councillor J. Gerber**

**That is be deferred.**

THAT Report DS 2021-023 be received for information.

DEFERRED.

Mayor L. Armstrong asked that Council consider deferring the report to allow for staff to complete a fuller public consultation process.

**13. CORRESPONDENCE**

**13.1 Grand River Conservation Authority - Environmental Registry  
Posting 019-2986: Regulatory proposal (phase1) under the  
Conservation Authorities Act**

**13.2 Township of Wilmot – Annual Ombuds Report**

**Resolution No. 2021-153**

**Moved by: Councillor B. Fisher      Seconded by: Councillor C. Gordijk**

THAT Correspondence Item No. 13.1 and 13.2 be received for information.

CARRIED.

**14. BY-LAWS**

**14.1 By-law No. 2021-36      Procedural By-law**

**14.2 By-law No. 2021-37 Schedule of Records Retention****14.3 By-law No. 2021-38 Development Charges Amending By-law  
Resolution No. 2021-154****Moved by: Councillor C. Gordijk Seconded by: Councillor J. Pfenning**

THAT By-law Nos. 2021-36, 2021-37 and 2021-38 be read a first, second and third time and finally passed in Open Council.

CARRIED. AS AMENDED.

**15. NOTICE OF MOTIONS****16. ANNOUNCEMENTS**

**16.1** Councillor J. Pfenning noted that July 18 to 24, 2021 is National Drowning Prevention Week and noted that everyone needs to be water smart all year round and that both the Life Saving Society and Township staff have information that can help.

**16.2** Councillor A. Hallman asked that everyone continue to support local small business.

**16.3** Councillor C. Gordijk noted that Thursday July 15, 2021, is the Annual Fundraiser held by Warren Bechtold.

**16.4** Councillor C. Gordijk noted that The Community Players are presenting 5 shows in New Hamburg and are looking for volunteers and to contact them at [operations@thecommunityplayers.com](mailto:operations@thecommunityplayers.com)

**17. BUSINESS ARISING FROM CLOSED SESSION****18. CONFIRMATORY BY-LAW****18.1 By-law No. 2021-39****Resolution No. 2021-155****Moved by: Councillor J. Pfenning Seconded by: Councillor A. Hallman**

THAT By-law No. 2021-39 to Confirm the Proceedings of Council at its Meeting held on July 12, 2021 be introduced, read a first, second, and third time and finally passed in Open Council.

CARRIED.

**19. ADJOURNMENT (8:19 PM)**

**Resolution No. 2021-156**

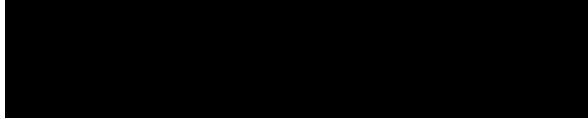
**Moved by: Councillor J. Gerber**

**Seconded by: Councillor B. Fisher**

THAT we do now adjourn to meet again at the call of the Mayor.

CARRIED.

This is **EXHIBIT "I"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits



July 22, 2021

Ms. Tracey Murray  
Manager of Information and Legislative Services / Deputy Clerk  
Township of Wilmot  
60 Snyder's Road,  
Baden, ON N3A 1A1

Dear Tracey,

**Re: Gawron Municipal Drain  
Township of Wilmot  
Our Reference No. WLMT-002**

---

Thank you for your email dated July 15, 2021 informing us of our appointment to investigate the above noted municipal drain under Section 78 of the Drainage Act.

Per Section 8(2) of the Drainage Act, we have selected Stephen Brickman, P.Eng. to have charge of this project until the report is filed.

Please find enclosed the following preliminary information.

1. Contact Information Form
2. Request/Record of Supporting Materials.

We wish to thank the Township of Wilmot for this opportunity to be of service, and if you have any questions, or require any further information, please let us know.

Yours truly,

Stephen Brickman, P.Eng.  
Project Engineer and Manager  
**HEADWAY ENGINEERING**

SB/

cc Bryan Bishop, CET – Manager of Engineering, Township of Wilmot

## CONTACT INFORMATION FORM

Please review the below Form and provide any missing information or corrections, as necessary.

General Project Information	
Project Name	Gawron Municipal Drain
Authorization for the Drainage Works	Section 4
Ward	Ward 2
Headway Engineering Contact Information	
Project Reference Number	WLMT-002
Project Engineer and Manager	Stephen Brickman P.Eng. Phone: (226) 243 6614 Email: <a href="mailto:Stephen.brickman@headwayeng.ca">Stephen.brickman@headwayeng.ca</a> Mailing Address: 23-500 Fairway Road South Suite 308 Kitchener, Ontario N2C 1X3
Alternate Contact	<a href="mailto:info@headwayeng.ca">info@headwayeng.ca</a>
Accounting Contact	<a href="mailto:accounting@headwayeng.ca">accounting@headwayeng.ca</a>
Township of Wilmot Contact Information	
Municipality Reference Number (if applicable)	None
Primary Contact	Bryan Bishop, CET Manager of Engineering Township of Wilmot Phone: (519) 634 8444 Ext. 239 Email: <a href="mailto:bryan.bishop@wilmot.ca">bryan.bishop@wilmot.ca</a>
Alternate Contact	John Kuntze, P.Eng. Drainage Superintendent Phone: 519 748 1199 Ext. 227 Email: <a href="mailto:jkuntze@ksmart.ca">jkuntze@ksmart.ca</a>
Alternate Contact	Tracey Murray Phone: 519-465-1345 Email: <a href="mailto:tracey.murray@wilmot.ca">tracey.murray@wilmot.ca</a>
Accounting Contact	Email:

## REQUEST/RECORD OF SUPPORTING MATERIALS

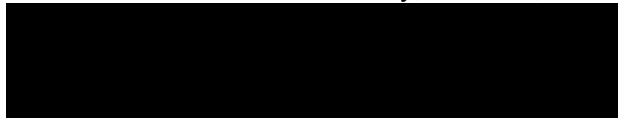
Please review the below table and provide any missing information or corrections, as necessary.

Description	Format	Source
Petition for Drainage Works (Signed By Lucy Gawron) along with any supporting material included with the Petition, if applicable (map, photos, etc.)	PDF	Wilmot Township
Ownership Information (List of Roll Numbers to follow- not yet included)	Excel/CSV	Wilmot Township And Wellesley Township
Parcel Fabric	Shape file	Region of Waterloo
Aerial Photography	geoTIFF	Region of Waterloo
Previous Engineers Reports for surrounding watersheds <ul style="list-style-type: none"> <li>• Koch-Leis Drain</li> </ul>	PDF or paper	Wilmot Township
Other relevant materials		

Please note that Headway Engineering has already contacted the Region of Waterloo directly for sharing the above noted GIS information. Once Headway Engineering has the parcel fabric information, we will follow up with the Township of Wilmot and Wellesley for Assessment Roll information including Ownership, mailing addresses, etc.

Thank you.

This is **EXHIBIT "J"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits

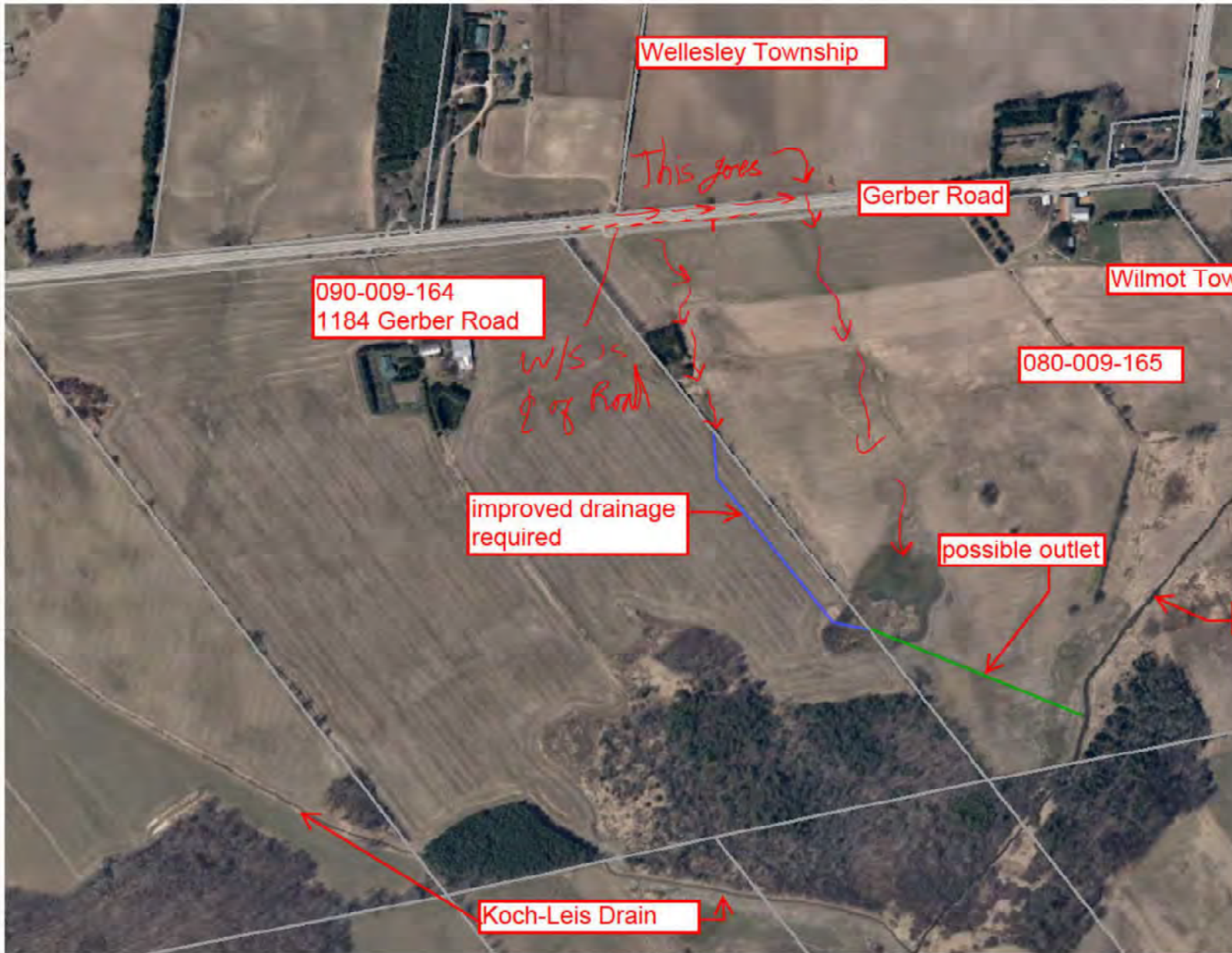




# Region of Waterloo

## Legend

- Addresses
- Assessment Parcels



## Notes

Gawron petition  
2018 aerial photo

458.6 0 229.31 458.6Meters

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.



































This is **EXHIBIT "K"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits

September 8, 2021

Tracey Murray  
Manager of Information and Legislative Services / Deputy Clerk  
Township of Wilmot  
60 Snyder's Road West  
Baden, Ontario N3A 1A1  
[tracey.murray@wilmot.ca](mailto:tracey.murray@wilmot.ca)

Dear Tracey,

**Re: On-Site Meeting  
Jananna Municipal Drain (Gawron Petition)  
Township of Wilmot  
Our Reference No. WLMT-002**

---

In connection with the above noted project, please find enclosed a copy of the on-site meeting notice. Please notify the Mayor and Council of this meeting.

This notice has been sent to the people whose names appear on the attached list.

We wish to thank the Township of Wilmot for this opportunity to be of service.

Yours truly,

Stephen Brickman, P.Eng.  
Project Engineer and Manager

**HEADWAY ENGINEERING**

SB/

cc: Bryan Bishop, C.E.T. – Manager of Engineering, Township of Wilmot  
[bryan.bishop@wilmot.ca](mailto:bryan.bishop@wilmot.ca)



Tracey Murray  
Manager of Information and Legislative Services /  
Deputy Clerk  
Township of Wilmot  
60 Snyder's Road West  
Baden, Ontario N3A 1A1  
[tracey.murray@wilmot.ca](mailto:tracey.murray@wilmot.ca)

Bryan Bishop, C.E.T.  
Manager of Engineering  
Township of Wilmot  
60 Snyder's Road West  
Baden, Ontario N3A 1A1  
[bryan.bishop@wilmot.ca](mailto:bryan.bishop@wilmot.ca)

John Kuntze, P.Eng.  
Drainage Superintendent  
Township of Wilmot  
85 McIntyre Drive  
Kitchener, Ontario N2R 1H6  
[jkuntze@ksmart.ca](mailto:jkuntze@ksmart.ca)

Steve van De Keere  
Director of Transportation  
Region of Waterloo  
150 Frederick Street  
Kitchener, Ontario N2G 4J3

Lucy Gawron  
[REDACTED]  
[REDACTED]

Cory & Kirby Kittle  
[REDACTED]  
[REDACTED]

Jananna Corp  
[REDACTED]  
[REDACTED]

Natalee Ridgeway  
[REDACTED]  
[REDACTED]

Ronald & Rosemary McCormick  
[REDACTED]  
[REDACTED]

Trevor Heywood  
Resource Planner  
Grand River Conservation Authority  
[theywood@grandriver.ca](mailto:theywood@grandriver.ca)

September 8, 2021

Dear Sir or Madam:

**Re: On-Site Meeting  
Jananna Municipal Drain (Gawron Petition)  
Township of Wilmot  
Our Reference No. WLMT-002**

---

We have been appointed by the Council of the Township of Wilmot under Section 4 of the Drainage Act to investigate a petition the Township has received for the above noted Municipal Drain. Please find enclosed a preliminary plan of the drainage basin.

This is the initial meeting under the Drainage Act, and its primary purpose is for affected landowners to provide the engineer with information concerning the possible drainage works.

We will be present at 1184 Gerber Road on September 22<sup>nd</sup> at 10:00 A.M. to discuss the area and site of the possible drainage works. Please refer to the attached drawing showing the location of the meeting.

You, as an owner of land affected by this municipal drainage project, are asked to attend at such time and place if you have any questions or suggestions concerning the potential work.

Furthermore, please bring to the meeting any tile maps that you may have for lands within the watershed as indicated on the attached plan.

If you have any questions beforehand, please telephone (226) 243 6614.

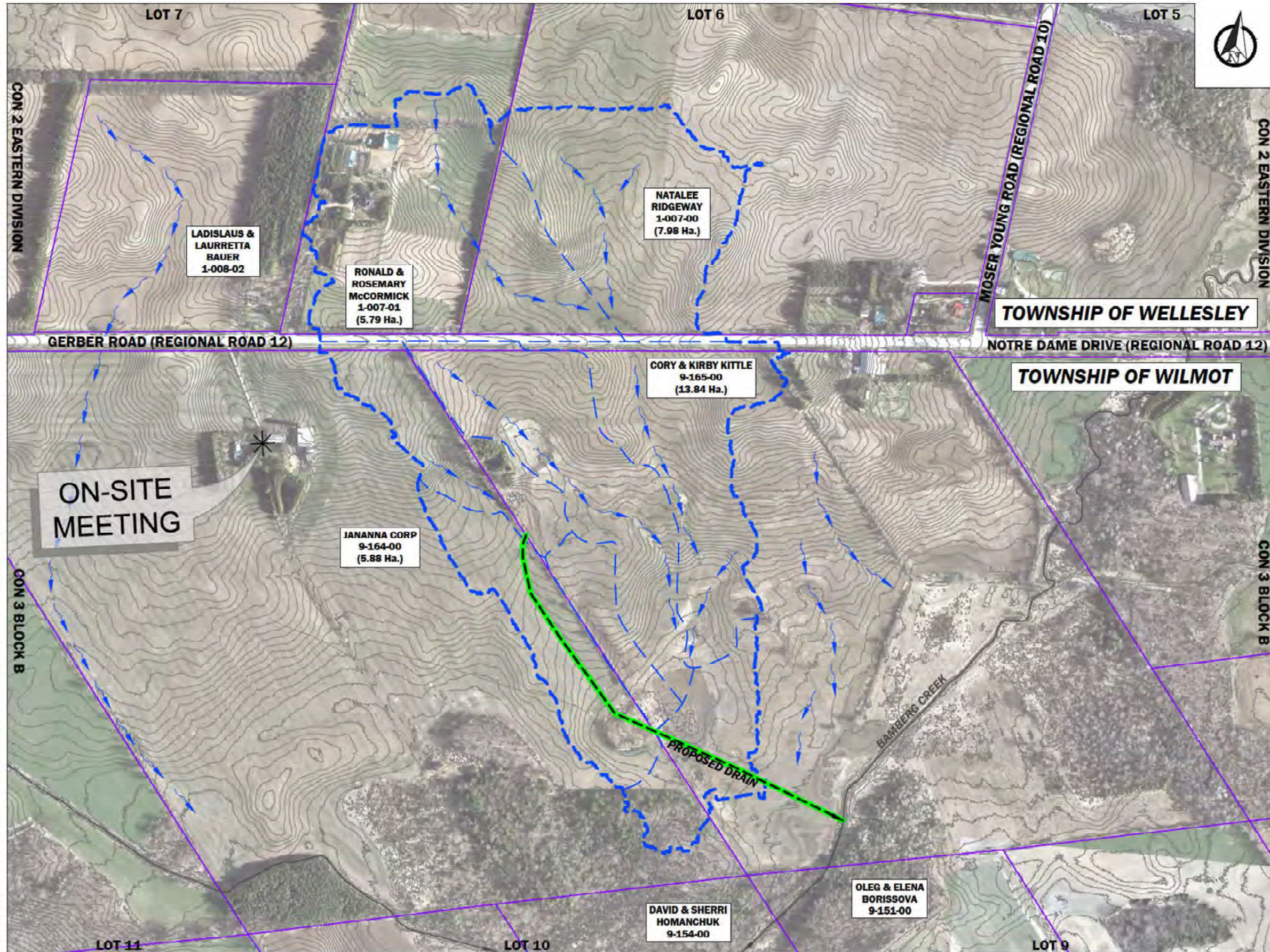
Yours truly,

Stephen Brickman, P.Eng.  
Project Engineer and Manager  
**HEADWAY ENGINEERING**

SB/



- NOTES:**
- 2015 AERIAL PHOTOGRAPHY PROVIDED BY WILMOT TOWNSHIP.
  - CONTOURS GENERATED USING THE 2018 LIDAR DERIVED DATASET REPRESENTING BARE-EARTH TERRAIN FROM LAND INFORMATION ONTARIO.



LOT/CONCESSION LINE  
PROPERTY LINE

**JOHN & JANE SMITH  
12-345  
(12.3 Ha.)** LANDOWNER NAME(S)  
ASSESSMENT ROLL No. (ABBREVIATED)  
AREA WITHIN WATERSHED

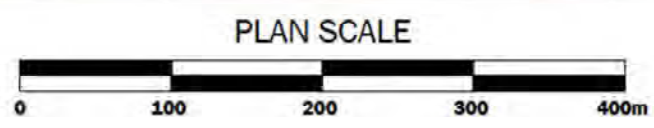
MAJOR WATERSHED BOUNDARY  
MINOR WATERSHED BOUNDARY

EXISTING FEATURES:  
 DRAIN NAME OPEN DRAIN WITH CROSSING AND FLOW DIRECTION  
 DRAIN NAME CLOSED DRAIN WITH CATCH BASIN AND FLOW DIRECTION  
 OVERLAND FLOW PATH

PROPOSED FEATURES:  
**DRAIN NAME** CLOSED DRAIN WITH CATCH BASIN AND FLOW DIRECTION

1	ON-SITE MEETING	21-09-22
No.	REVISION	DATE (YY-MM-DD)

DRAWN BY: s.b.	DESIGNED BY: s.b.	CHECKED BY: s.b.
DATE: 2021-09-22	REFERENCE No of 108 WLMT-002	DRAWING No. 1 OF 1





This is **EXHIBIT "L"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits





Project: **Jananna Corp Drain**

Reference No. **WLMT-002**

By: S.B.

Date: September 22, 2021

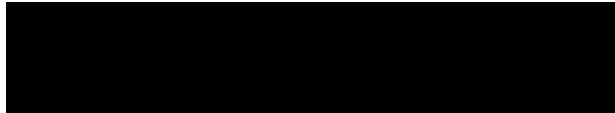
Checked By:

Page: 1 of 2

Subject: **Onsite Meeting - Sign-in Sheet**

Name	Organization or Property	Phone Number	Email Address
Stephen Brickman	Headway Engineering	226 243 6614	<a href="mailto:Stephen.brickman@headwayeng.ca">Stephen.brickman@headwayeng.ca</a>
Adam Hall	Headway Engineering	226 243 6614	<a href="mailto:adam.hall@headwayeng.ca">adam.hall@headwayeng.ca</a>
John Kuntze	Wilmot & Wellesley Drain Super		
Lucy Gawron			
WALTER KRUPNIK			
Wayne & Irene Schneider			
Josh GRAHAM	Row	519 500 0980	<a href="mailto:JGRAHAM@LEGISLATIONOFWATERLOO.CA">JGRAHAM@LEGISLATIONOFWATERLOO.CA</a>
Kenneth Kenner Renner	Row		
Ron McCormick	1171 Gerber		
CHRISTINE GAWRON	JANANNA CORP		

This is **EXHIBIT "M"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024

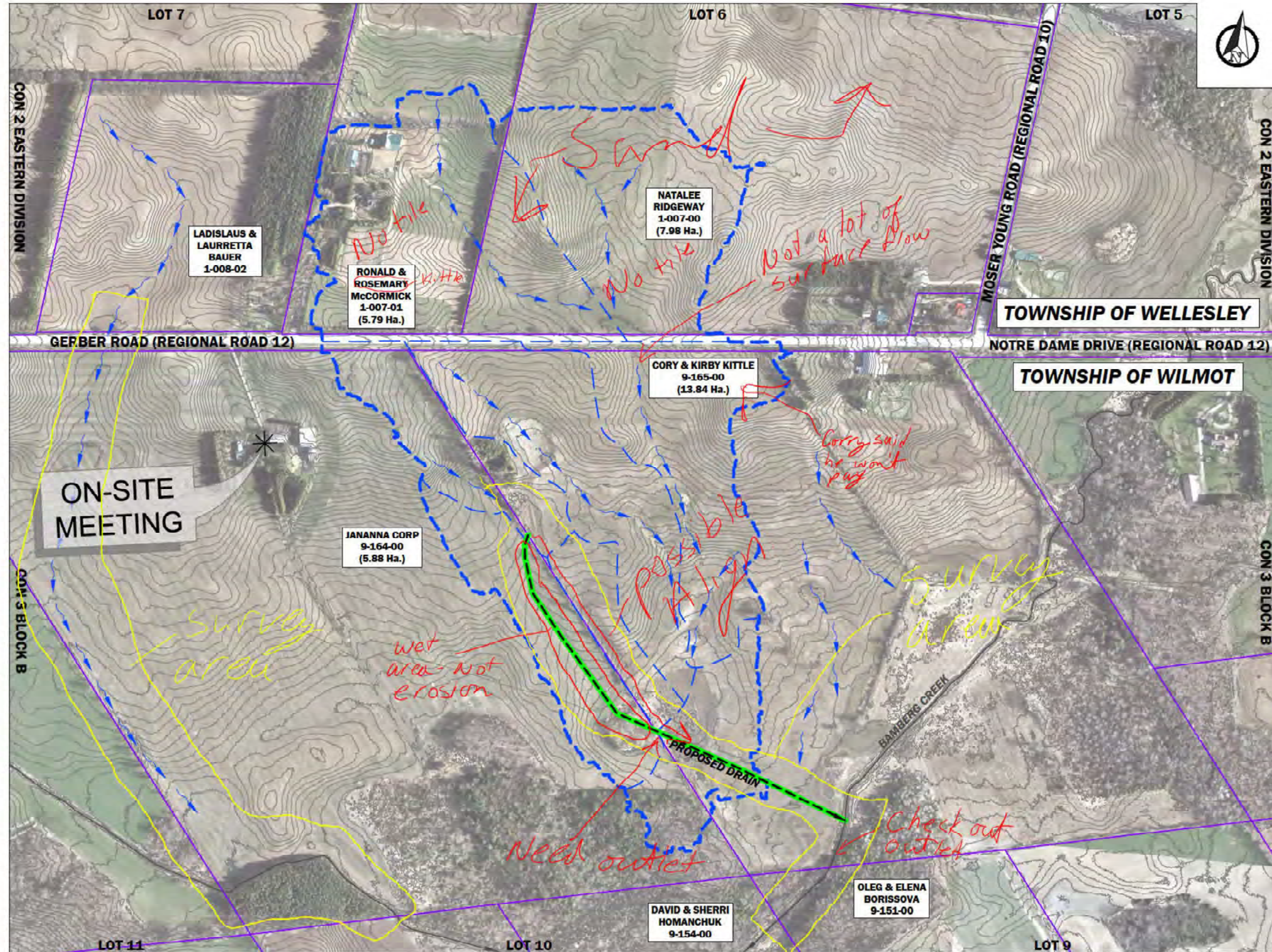


A Commissioner for taking affidavits



NOTES:

- 2015 AERIAL PHOTOGRAPHY PROVIDED BY WILMOT TOWNSHIP.
- CONTOURS GENERATED USING THE 2018 LIDAR DERIVED DATASET REPRESENTING BARE-EARTH TERRAIN FROM LAND INFORMATION ONTARIO.



LOT/CONCESSION LINE  
PROPERTY LINE

LANDOWNER NAME(S)  
ASSESSMENT ROLL No. (ABBREVIATED)  
AREA WITHIN WATERSHED

MAJOR WATERSHED BOUNDARY  
MINOR WATERSHED BOUNDARY

EXISTING FEATURES:  
DRAIN NAME OPEN DRAIN WITH CROSSING AND FLOW DIRECTION  
DRAIN NAME CLOSED DRAIN WITH CATCH BASIN AND FLOW DIRECTION  
OVERLAND FLOW PATH


PROPOSED FEATURES:  
DRAIN NAME CLOSED DRAIN WITH CATCH BASIN AND FLOW DIRECTION

1	ON-SITE MEETING	21-09-22
No.	REVISION	DATE (YY-MM-DD)



DRAWN BY: s.b.	DESIGNED BY: s.b.	CHECKED BY: s.b.
DATE: 2021-09-22	REFERENCE No of 108 WLMT-002	DRAWING No. 1 OF 1



	Project: <b>Jananna Corp Drain</b>	Reference No. <b>WLMT-002</b>
	By: S.B., A.H.	Date: September 22, 2021
	Checked By:	Page: 1 of 4
Subject: <b>Onsite Meeting – Notes</b>		

## 1.0 INTRODUCTIONS

## 2.0 APPOINTMENT

Headway Engineering has been appointed under Section 4 of the Drainage Act to investigate a petition received by the Township of Wilmot.

## 3.0 PURPOSE OF MEETING

The purpose of this meeting is for the landowners to provide the engineer with information which will be helpful for completing this investigation. If landowners have problems

- blow outs
- lack of depth
- excessive runoff
- unending repairs etc.
- get copies of tile maps
- watershed issues
- tile maps


## 4.0 REVIEW HISTORY OF EXISTING MUNICIPAL DRAINS IN THE AREA

There's approximately 85-90 acres in the watershed, and out of that area, about 68 acres enters in the lower half of the drain.

## 5.0 LANDOWNER INPUT AND COMMENTS

Jananna Corp (Lucy and family)	Actions
<p>Surface water issues from the Kittle property. needs a drain to control the surface water from the pond on the Kittle property to Bamberg Creek.</p> <p>Farm drained by Kuepfer Drainage, most of the farm is tiled to the west.</p> <p>Hickenbottom on property line that is connected to a farm tile.</p> <p>Lucy said Bamberg Creek needs to be cleaned out. Headway noted there would be environmental concerns.</p> <p>The family said they tried to reach an agreement to put a pipe on the Kittle property in the past (last couple years) – that went no where, and didn't get very far. (NOTE THAT KITTLE SOMEWHAT DENIES THIS)</p>	<p>Headway to Schedule Site Visit with Lucy.</p>



	Project: <b>Jananna Corp Drain</b>	Reference No. <b>WLMT-002</b>
	By: S.B., A.H.	Date: September 22, 2021
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Several questions about timeline. We were reluctant to give timeline because of concerns with GRCA. John K. also noted that contractor availability is completely unknown at this time as well.

**Kittle Family (Cory & Kirby) – Did not attend but called later the same day**

Cory Called after the meeting. He didn't receive the notice until that afternoon (meeting was in the morning). I (SB) was surprised because the notices were in the mail approximately 2 weeks ago.

Cory was shocked that Lucy is doing this.

Cory said nobody ever came to him to talk about a drain on his property. After talking to him a little longer, he said somebody came to him, but there wasn't any details about anything. He is shocked that he is now seeing this.

This project is a way for Lucy to make a profit (by draining the farm) and make further profit by making the neighbours pay.

Cory just built a house and doesn't have any money for this.

Cory said he won't be paying - 'put me in jail'.

He asked if there's any point in the project proceeding since he won't approve it anyway. I (sb) explained that Headway and the Township are obligated to move forward no mater how neat and tidy the project is. or how messy. We must all (twp included) fulfil our obligations under the Act.

He has drainage problems too (lots of them) but he doesn't have the money to pay for it, so they aren't happening.

General note on the convo. - Cory wasn't terribly difficult, he was mostly just shocked.

**Natalee Ridgeway – Did not Attend**


**Ron McCormick**

No concerns with drainage on his farm, sandy ground and not tiled.

Concerned if the pond on the Kittle property gets drained, it may affect his well.

Ron is also concerned about his assessment. We told him (and everybody) that the next meeting will have much better information about assessment.

Ron called SB ahead of the meeting and noted the above concerns in advance.

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<p>Ron gave SB a handwritten letter from Rosemary (his wife) which states that she doesn't want anything to do with the job and will not be involved. (paraphrased). FYI Rosemary is a Kittle by birth.</p>	
<p><b>John Kuntze (Drain Super)</b></p>	
<p>Investigate a drainage system on the west side of Jananna Corp to serve the north part of the farm.</p> <p>Survey Bamberg Creek water levels, Kuepfer Drainage thinks getting an outlet for the low hole on Jananna Corp may be an issue with the current water levels.</p> <p>Issues with beaver dams in Bamberg Creek in the past.</p> <p>John provided all kinds of background information in advance of the meeting (tile maps, correspondence, etc.)</p>	
<p><b>Region of Waterloo (Josh &amp; Ken)</b></p>	
<p>Attended because they thought there may be a road crossing.</p> <p>Asked about the condition of current flood pipe, Headway noted it is in good condition except for the downstream end is bent down.</p>	<p>Steve to send a photo of culvert</p>
<p><b>Trevor Heywood (GRCA) – Could not attend</b></p>	
<p>Adam is scheduling a site visit with Trevor.</p>	<p>Headway to schedule Site Visit</p>


## 6.0 NEXT STEPS & DRAINAGE ACT PROCESS

After this meeting, the Engineer will conduct a survey, and come up with a design. Then we will hold another meeting with the landowners to review the preliminary work. Nothing at that time will be final. The next meeting will discuss things like design, costs, and assessment of costs. From there a final report will be completed and then begin procedures with Township Council. At that stage, it becomes more difficult to change things.

## 7.0 ANTICIPATED TIMELINE

It is impossible to predict a construction dated. Best case scenario would be for construction next year, assuming environmental requirements are minimal, and (generally speaking) there are no surprises.

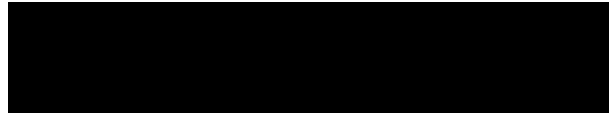


	Project: <b>Jananna Corp Drain</b>	Reference No. <b>WLMT-002</b>
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## 8.0 REVIEW OF ACTION ITEMS

Some Action Items noted above. Additional: Headway to survey both east and west sides of Gawron problem areas.

This is **EXHIBIT "N"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits



## Stephen Brickman

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**From:** Cory Kittel [REDACTED]  
**Sent:** Friday, September 23, 2022 3:01 PM  
**To:** Stephen Brickman  
**Cc:** Adam Hall  
**Subject:** Re: Jananna Municipal Drain Review

This photo was taken today, but like I said, I've been documenting this for some time via my drone. Unfortunately I wasn't informed about the first meeting until after the meeting which is why I reached out and requested more information and a follow-up which I never received.

On Fri, Sep 23, 2022 at 2:55 PM Stephen Brickman <[stephen.brickman@headwayeng.ca](mailto:stephen.brickman@headwayeng.ca)> wrote:

Hey Cory,

Thanks for this photo. It is good information, and we'll add it to our files. Can you confirm when the photo was taken?

This upcoming meeting, and the previous meeting last fall are how we share information. The first meeting was all about learning what the possible scope may be, and receiving information. From there we have to go out and pick up more technical information, like elevations, sections, etc. This upcoming meeting is about us presenting our work and the additional technical information we were able to collect and opening it up to discussion. Your questions from before, along with this photo and other information that we receive at the meeting (and from the previous meeting) all gets added into our bank of information. It's then up to us to go through the information make modifications as necessary and produce a solution using the process described and tools available in the Drainage Act.

I guess what I'm trying to say is that this is how we reach out for information, and share our info.

**s.b.**

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**From:** Cory Kittel [REDACTED]  
**Sent:** September 23, 2022 11:18 AM  
**To:** Stephen Brickman <[stephen.brickman@headwayeng.ca](mailto:stephen.brickman@headwayeng.ca)>

**Cc:** Adam Hall <[adam.hall@headwayeng.ca](mailto:adam.hall@headwayeng.ca)>

**Subject:** Re: Jananna Municipal Drain Review

As you can see from the image attached, we have added that former wet spot back into our workable land. Since the neighbour tiled their fields, this areas has completely dried up. This is probably good information to have and would have been know if anyone bothered reaching out to us.



From: Cory Kittel [REDACTED]

Sent: September 22, 2022 4:47 PM

To: Stephen Brickman <[stephen.brickman@headwayeng.ca](mailto:stephen.brickman@headwayeng.ca)>

Cc: Adam Hall <[adam.hall@headwayeng.ca](mailto:adam.hall@headwayeng.ca)>

Subject: Re: Jananna Municipal Drain Review

I really can fathom how the project is even this far along when no one has been consulted or talked to yet. My most basic questions have been ignored. My neighbours have no idea what's going on. Why spend the money on a problem when perhaps a problem doesn't exist. Clearly there are some conflicting interests here. This is an individual matter so I'm not sure what I have to do with this? Am I supposed to take time off work for this meeting scheduled for 2pm on a weekday? It's like you don't want anyone to attend.

On Thu, Sep 22, 2022 at 4:23 PM Stephen Brickman <[stephen.brickman@headwayeng.ca](mailto:stephen.brickman@headwayeng.ca)> wrote:

Hi Cory,

Thanks for your email.

These questions, and questions like it are exactly what we intend to address at next week's public meeting as we're sure others will have questions too. The following is a quick outline for next week.

- Introductions
- A recap of how we (Headway) became involved
- Our findings
  - Watershed area, and makeup
  - Our survey info (photos, Bamberg Creek, crossings, etc.)
  - Agency requirements

- Our proposed solution
  - The engineering dwgs and walk through of all the info on the dwgs
    - Plans
    - Profiles
    - Details
- Questions relating to design details (your questions No. 1, 3, and 4)
- Discussion on the costs of the project
- Discussion on the assessment of costs
  - Instruments of assessment available under the Drainage Act
  - What the instruments mean
  - How to apply them
  - And a detailed look at the assessment schedules.
- Questions relating to the costs (eg your questions No. 2 and 3)
- Drainage Act process moving forward
  - Next Steps
  - Timelines
  - Etc.
- Questions relating to Drainage Act process, or anything.

You didn't hear back from anybody yet regarding these questions because we haven't finished the necessary materials to address everything. We're close, but not all the way there (we will be next week). The main purpose of next week's meeting is to present all this material that we've been working on, and to receive feedback. Everything will be in draft format, and will not be final, so we want to receive input prior to finalizing everything.

I hope that explains these next few steps, and what to expect next week and we hope to see you there.

Thanks again for your email and Take Care Cory.

**Stephen Brickman, P.Eng**

Project Manager/Engineer | Headway Engineering

[headwayeng.ca](http://headwayeng.ca)

P: 226 243 6614, Ext. 1



E: [Stephen.Brickman@headwayeng.ca](mailto:Stephen.Brickman@headwayeng.ca)

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**From:** Cory Kittel [REDACTED]  
**Sent:** September 22, 2022 2:12 PM  
**To:** Stephen Brickman <[stephen.brickman@headwayeng.ca](mailto:stephen.brickman@headwayeng.ca)>; Adam Hall <[adam.hall@headwayeng.ca](mailto:adam.hall@headwayeng.ca)>  
**Subject:** Re: Jananna Municipal Drain Review

Hi,

I'm still looking for the answers to the below questions. For the record, I never did hear back from anyone on this. I will say the information to-date has been limited to basically non-existent. I've been tracking this parcel for close to a year now and have recorded drone footage that does not indicate any issues.

**From:** Stephen Brickman  
**Sent:** November 8, 2021 2:00 PM  
**To:** Cory Kittel [REDACTED]  
**Subject:** RE: Jananna Municipal Drain Review

Hey Cory.

We did get your email – Thanks for providing your comments/concerns/questions! And sorry for not acknowledging them earlier.

As we move forward, we'll be looking to you (and others) to help us sculpt out the best solution. We'll definitely be staying in touch, and we'll be able to better answer the questions below.

Thanks Cory, and keep in touch!

**Stephen Brickman, P.Eng**

Project Manager/Engineer | Headway Engineering

[headwayeng.ca](http://headwayeng.ca)

P: 226 243 6614, Ext. 1

E: [Stephen.Brickman@headwayeng.ca](mailto:Stephen.Brickman@headwayeng.ca)

**From:** Cory Kittel [REDACTED]  
**Sent:** November 8, 2021 1:31 PM  
**To:** Stephen Brickman <[stephen.brickman@headwayeng.ca](mailto:stephen.brickman@headwayeng.ca)>  
**Subject:** Re: Jananna Municipal Drain Review

Just checking back to make sure you got this. Let me know.

Thanks

On Mon, Oct 25, 2021 at 11:31 AM Cory Kittel [REDACTED] wrote:

Hi Stephen,

Thanks for taking the time to talk about this issue with me. I still find myself missing many of the details. Here are my main questions...

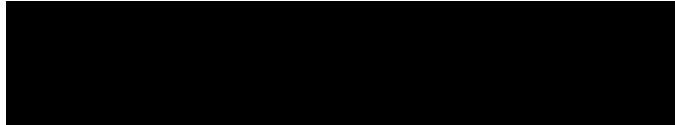
1. What are the problems we are trying to solve?
2. Cost/benefit analysis - is the work and expense worth it?
3. Who is it benefiting? To what benefit?
4. Perhaps there are simple solutions that are being overlooked. At one point a year or two ago John Kuntzee hired excavators at our creek trying to solve flow issues - big expenses that made no difference. The problem was sticks. A build up occurred at our bridge that just needed some TLC. Sometimes people miss the obvious things right in front of them.

Cory Kittel

[REDACTED]



This is **EXHIBIT "O"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits



October 21, 2021

Stephen Brickman  
Headway Engineering  
23-500 Fairway Road South, Suite 308  
Kitchener ON N2C 1X3  
[stephen.brickman@headwayeng.ca](mailto:stephen.brickman@headwayeng.ca)

**Re: Your Reference No. WLMT-002  
Jananna Municipal Drain  
1010 to 1084 Gerber Road, Township of Wilmot**

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Dear Mr. Brickman,

The Grand River Conservation Authority (GRCA) has received a meeting notice for the above-noted drain. Thank you for subsequently meeting me at 1084 Gerber Road on October 12, 2021.

Information currently available at our office indicates that the catchment area contains or is adjacent to Bamberg Creek and its associated floodplain, as well as parts of the Provincially Significant Sunfish Lake Laurel Creek Wetland Complex. Based on our observations on site, the GRCA also believes another wetland unit is likely present on site. Please see the attached map. For this reason, we wish to stay involved as the study process moves forward.

As discussed on site, any proposed drainage improvements may have the potential to impact these features of interest to the GRCA. We wish to conduct a follow-up visit during the 2022 growing season to further evaluate the potential wetland area, which will help to further characterize potential impacts.

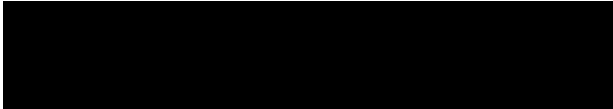


While private development is prohibited within wetlands, our comments on works under the Drainage Act are advisory, and will not require a GRCA permit. When a preliminary solution has been decided upon, we also recommend completing self-assessments of potential impacts to:

- Fish and fish habitat, in accordance with the policies and procedures under the federal Fisheries Act; and,
- Species at risk, in accordance with policies and procedures under the federal Species at Risk Act and provincial Endangered Species Act.

We trust this information is of assistance, and we request that you continue to include the GRCA on the project mailing list. If you have any questions or require additional information, please contact me at 519-621-2763 ext. 2292 or [theywood@grandriver.ca](mailto:theywood@grandriver.ca).

Sincerely,



---

Trevor Heywood  
Resource Planner  
Grand River Conservation Authority

Attachment

c.c. John Kuntze, K Smart



















This is **EXHIBIT "P"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits

















ATTENTION

12065

















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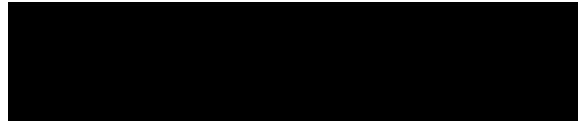




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This is **EXHIBIT "Q"** referred to in the Affidavit of Stephen Brickman  
sworn before me on this day, June 20, 2024



A Commissioner for taking affidavits























































































































































































































































