Schedule “C” Environmental Study

Construction of New Water Supply Well and Treatment Facility

Durham Water Works

Municipality of West Grey

22-037

May 2026

Prepared By:

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APPENDICES

GLOSSARY OF TERMS

ANSI	Areas of Natural Scientific Interest
DFO	Department of Fisheries and Oceans
EA	Environmental Assessment
ECA	Environmental Compliance Approval
ESA	Environmentally Sensitive Areas
ESR	Environmental Study Report
MNRF	Ministry of Natural Resources and Forestry
MECP	Ministry of the Environment and Climate Change
MPAC	Municipal Properties Assessment Corporation
PSW	Provincial Significant Wetlands
PWQO	Provincial Water Quality Objectives
SVCA	Saugeen Valley Conversation Authority
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant

FIGURES

TABLES

1 INTRODUCTION

1.1 Background

Durham Water Works, which includes three (3) water supply wells and two (2) Water Treatment Plant buildings, all located in the urban area of Durham, West Grey, is operated by Veolia Canada on behalf of the Municipality of West Grey. The facilities are used for the raw water supply, its treatment and supply of treated water to distribution systems in Durham.

Water supply wells include Wells #1B, Well #2 and Well #2A. Two (2) well pump house and treatment plant buildings are located respectively at Well #1B site and Well #2 and 2A sites. **Figure 1.1** overleaf provides a layout of Durham Water Works assets.

1.2 Problem Statement

The Municipality of West Grey completed “Durham Water and Wastewater Treatment System Capacity Assessment Report” in 2021. The assessment was completed to determine the capability of the existing Water Works to supply treated water to the new subdivision applicants, without exceeding the rated capacity of the Water Works. The report established that the Water Works is approaching the plant’s capacity and risks running out of capacity. Furthermore, another hydrogeological assessment indicated that existing water supply wells yield was on decline and there was a risk relating to the supply of water to water customers in sufficient quantity.

It was also determined that there was a significant loss of water from the water distribution system. Accordingly, West Grey decided to commence the EA study to supplement additional water supply and upgrade water treatment work to treat additional water supply.

1.3 Plant Rated Capacity and Capacity Utilization

Durham Water Works has a rated capacity of 3,011 m³/day (460 igpm). The raw water supply is obtained from three (3) water wells. Ministry has issued Permit To Take Water for three wells as follows:

Well #1B: 1,375 m³/day (210 igpm)

Well #2: 1,636 m³/day (250 igpm)

Well #2A: 1,636 m³/day (250 igpm)

The capacity utilization has been summarized in **Table 1.3** overleaf, for a period from 2013 – 2024.

0 200 400 Meters

BOOSTER PUMPING STATION

LOCATION OF CONCRETE RESERVIOR, STANDPIPE AND TRANSFER PUMP STATION

WELL #2. #2A AND PUMP HOUSE

NEW WELL #1C

LOCATION OF INGROUND CONCRETE RESERVIOR (400m^3) AND PROPOSED PUMPING SYSTEM

WELL #1B AND PUMP HOUSE

BPS

PRV SET AT 45psi

R1

R2

NC

114m 150 PVC

STREET A
STREET B
STREET C
JOHN ST.
JACKSON ST.
JACKSON ST. E
HUNTER ST.
DURHAM RD.
HWY. NO. 4
HWY. NO. 6
CHESTER ST.
GEORGE ST. WEST
GEORGE ST. EAST
LAMBTON ST.
SADDLER ST.
SOUTH ST.
ELIZABETH ST.
PARK ST.
ELM ST.
MILL ST.
CEDAR CRES.
EMERSON WAY
ECCLES AVENUE
SHADY HILL RD
ALBERT ST.
VICTORIA ST.
JAMES ST.
WILLIAM ST.
BRUCE ST.
COUNTESS ST.
QUEEN ST.
GARAFRAXA ST.
ELGIN ST.
KINCARDINE ST.
ARTHUR ST.
CROSS ST.
COLLEGE ST.
MacDonald Crescent
CANADIAN PACIFIC RAILWAY

LEGEND:

- FIRE HYDRANT
- WATER VALVE
- NC NORMALLY CLOSED WATER VALVE
- 300mmØ WATERMAIN
- 250mmØ WATERMAIN
- 200mmØ WATERMAIN
- 150mmØ WATERMAIN
- 100mmØ WATERMAIN
- 64mmØ WATERMAIN
- 38mmØ WATERMAIN
- 25mmØ WATERMAIN
- REVISION AREAS
- RAW WATERMAIN PIPE AREA (300Ø)
- UPPER TIER - WATER DISTRIBUTION SYSTEM

DD/MM/YY	REVISION / ISSUE
06/05/25	REVISION 2: ADD PIPES CONSTRUCTED (IN 2024)
23/04/25	UPPER TIER AREA INCLUDED
04/07/24	REVISION 1: ADD PIPES CONSTRUCTED (IN 2023)

Seal not valid unless signed and dated

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Title:

EXISTING AND FUTURE WATER WORKS IMPROVEMENTS DURHAM WATERMAIN SYSTEM

Client: MUNICIPALITY OF WEST GREY

Design:	RS	Scale:	1: 4000
Drawn:	TDL	Approved:	Design Engineer
Checked:	RS		
Date:	JULY 2024		

Drawing No. 22–037 Fig. 1.1

PLOTTED: Monday, May 11, 2026 2:16:36 PM

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Table 1.3
Rated Capacity Utilization
Durham Water Works
Municipality of West Grey

Year	Max Day (m^3/day)	% Rated Capacity
2013	1603	53.2
2014	2289	76.0
2015	2157	71.6
2016	1455	48.3
2017	1309	43.5
2018	1470	48.8
2019	1482	49.2
2020	1591	52.8
2021	1399	46.5
2022	1756	58.3
2023	1352	44.9
2024	1192	39.6
Rated Capacity of Water Works:	**3,011 m^3/day**	

1.4 Environment Assessment Process

1.4.1 Overview

The Ontario Environmental Assessment Act, in applying its requirements for undertakings, identifies two (2) types of environmental assessment (EA) planning and approval processes"

- Comprehensive Environmental Assessments – A comprehensive EA includes a terms of reference (approved by the Minister) and an EA (Minister with (Lieutenant Governor in Council (Cabinet) approval). Individual EAs are generally required for large-scale, complex projects with a potential for significant environmental effects. The projects that must follow the comprehensive EA process set out in Part II.3 of the EAA are identified in the regulation(s) made under the EAA.

- Streamlined EAs – Streamlined EA's include Class EAs, and various regulatory process, including processes applicable to waste, transit and electricity projects. Class EAs establish a process that proponents may follow for an established class of projects, which if followed allows the proponents to proceed with the undertaking without requiring further approval.

1.4.2 Municipal Class Environmental Assessments

The Municipal Engineers Association (MEA) developed Class EA documents for municipal road, water, and wastewater projects which, since 1997, are approved under the Ontario EA Act. A review and update of the Municipal Class EA took place in 1993 and their approval was extended. In 2000, the Class EAs for municipal road, water, and wastewater projects were consolidated and updated, and subsequently approved and included in the amended Municipal Class EA document – October 2000, as amended in 2007 and 2011. EA process was again reviewed and broad consultation process took place with various stakeholders, and resulted in Municipal Class EA document, February 2020 revision.

1.4.3 Planning and Design Process

1.4.3.1 Project Category

A Class EA is a planning document which sets out the process that a proponent must follow in order to meet the requirements of the EA Act for a class or category. Projects are divided into schedules based on the type of projects and activities. Schedules are categorized as Exempt, B, and C with reference to the magnitude of their anticipated environmental impact.

Exempt:

Various maintenance, operation, rehabilitation, and other small projects that are limited in scale and have minimal adverse environmental effects are exempt from the EAA. Previously, many of these projects were classified as Schedule A or A+ and as a result were exempt from the Act through s. 15.3(3) of the Act and are now identified simply as exempt in the table. Exempt projects are identified in the first column of the table in Appendix 1 of the Municipal Class EA document.

While these projects are exempt from the EAA, municipalities should consider whether notice about the project should be given or consultation on the project should be carried out outside of the MECP process. Municipalities should address any concerns raised with respect to the project, as appropriate. Proponents are also responsible for obtaining any other applicable permits, approvals and authorizations for their project.

Other projects may be eligible for exemption if they meet the requirements of the conditional exemptions including the completion of the archaeological screening process.

Schedule B

Schedule B projects have the potential for some adverse environmental effects. Proponents are required, at a minimum, to complete phases one and two of the planning process, including mandatory consultation with Indigenous Communities, directly affected public and relevant review agencies, to ensure that they are aware of the project and that their concerns are identified and considered, and documenting the assessment requirements in the Project File Report. Schedule B projects generally include improvements and minor expansions to existing facilities as well as new smaller scale projects.

Schedule C

Schedule C projects have the potential for significant environmental effects and must proceed through the full planning and documentation procedures set out in Section A.2 Municipal Class EA document. This includes mandatory consultation with Indigenous Communities, directly affected public and relevant review agencies, to ensure that they are aware of the project and that their concerns are identified and considered. An Environmental Study Report must be prepared and filed for review by Indigenous Communities, the public and the review agencies.

1.4.3.2 Planning Process

There are five (5) key elements in the Class EA planning process. These include:

Phase 1 – Identification of problem (deficiency) or opportunity;

Phase 2 – Identification of alternative solutions to address the problem or opportunity. Public and review agency contact is mandatory during this phase and input received along with information on the existing environment is used to establish the preferred solution. It is at this point that the appropriate Schedule (B or C) is chosen for the undertaking. If Schedule B is chosen, the process and decisions are then documented in a Project File. Schedule C projects; however, proceed through the following Phases;

Phase 3 – Examination of alternative methods of implementing the preferred solution established in Phase 2. This decision is based on the existing environment, public and review agency input, anticipated environmental effects and methods of minimizing negative effects and maximizing positive effects;

Phase 4 – Preparation of an ESR summarizing the rationale, planning, design and consultation process of the project through Phases 1-3. The ESR is then to be made available to agencies and the public for review; and

Phase 5 – Following completion of contract drawings and documents, construction and operation commences. Construction is to be monitored for adherence to environmental provisions and commitments. Monitoring during operation may be necessary if there are special conditions.

Exhibit A.2 provided overleaf illustrates the Municipal Class EA Planning and Design Process.

1.4.4 New Water Well for Durham Water Works

This project is being conducted as a Schedule C project under the Municipal Class Environmental Assessment process. The selection as a Schedule C project recognizes that the proposed works falls under the category of "Construct new water treatment plant or expand existing water treatment plant beyond existing rated capacity", as referenced in **Table A** of the Municipal Class Environmental Assessment (Municipal Engineers Association, 2024) document.

1.4.5 Environmental Study Report (ESR)

For projects following Schedule C, an Environmental Study Report (ESR) is to be completed as part of Phase 4 and placed on public record for a period of at least 30 calendar days. Prior to filing ESR, a Notice of Completion to Review Agencies and the Public is required to be issued.

1.4.6 Changing Project Status – Section 16 Orders

The EAA provides the Minister (or delegate) with the authority to make two types of orders with respect to an undertaking proceeding in accordance with a Class EA.

The Minister (or delegate) may order a proponent, under Section 16 and 16.1 of the EAA, and the prohibitions in s.15.1.1. before proceeding, to undertake a comprehensive EA or may impose conditions on the undertaking.

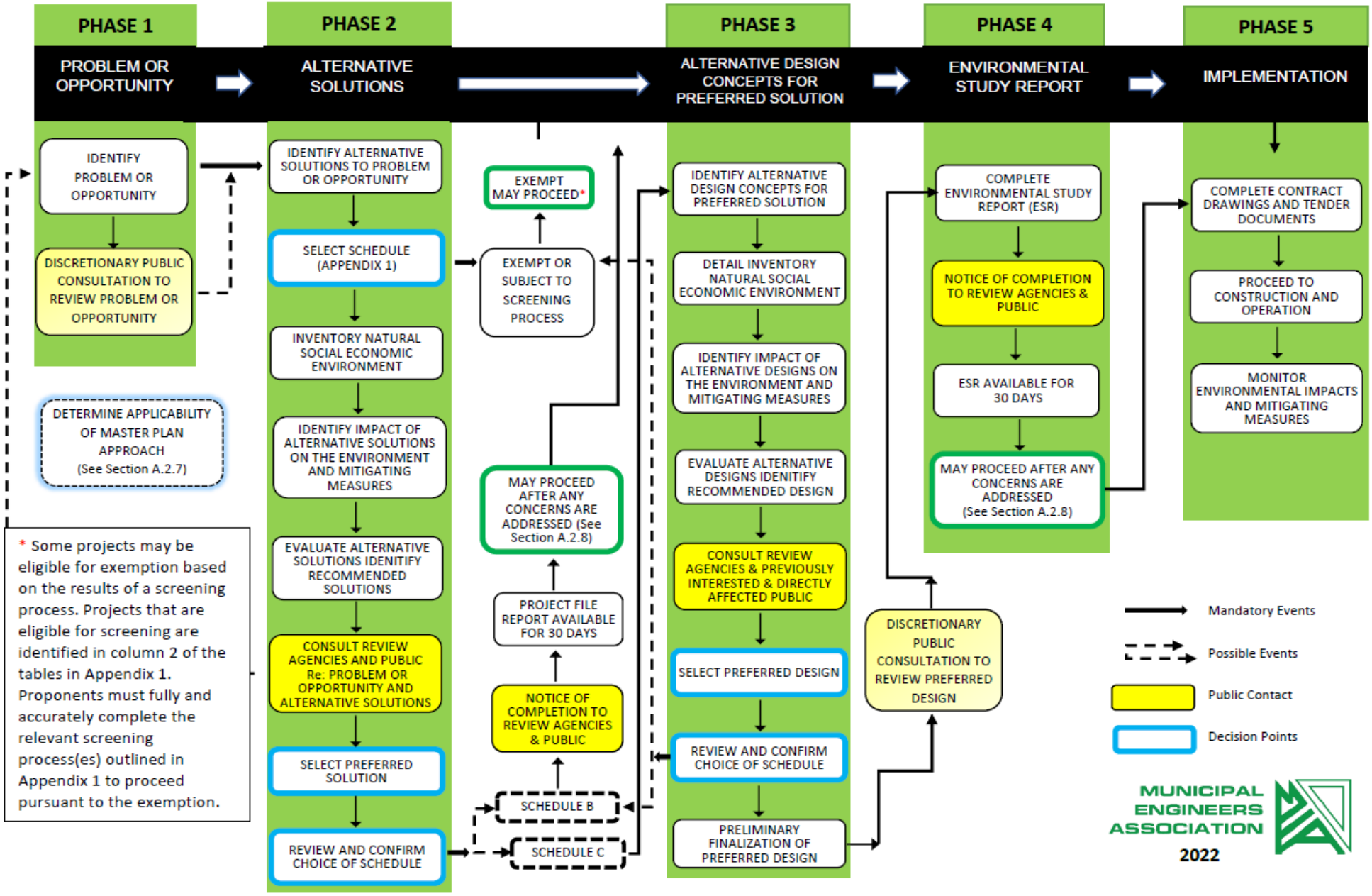
Section 16(1) and 16(3) Orders

The Minister (or delegate) may, on their own initiative, within a time limited period, require a proponent to undertake a comprehensive EA, referred to as a s.16(1) order, or impose conditions on an undertaking, referred to as a s.16(3) order.

If the Minister (or delegate) is considering making an order on their own initiative, the Minister must make the order no later than 30 days after the end of the comment period set out in the Notice of Completion or Notice of Addendum, unless a Notice of Proposed Order is provided to the proponent. If the Director provides a Notice of Proposed Order to the proponent within the 30-day period, the Minister must make the order within 30 days of the Director's notice being provided to the proponent unless the notice also includes a request for information.

EXHIBIT A.2. MUNICIPAL CLASS EA PLANNING AND DESIGN PROCESS

NOTE: This flow chart is to be read in conjunction with Part A of the MCEA



The Minister (or delegate) will have 30 days to make an order following completion of certain procedures. In this case, the following are the outcomes:

- If the Minister (or delegate) issues a s.16(1) order, the proponent cannot proceed with the project without first seeking and obtaining approval under Part II of the Act (i.e., comprehensive EA).

- If the Minister (or delegate) issues a s.16(3) order, the proponent must meet the conditions outlined in the order.

- If the Minister (or delegate) does not issue an order within 30 days of the Director giving a Notice of Satisfactory Response, the proponent can proceed with their project.

There are further details on procedures in the EA document, which is not provided here. Reader is referred to Municipal Class EA document issued February 2024.

Requests for s.16 orders on the grounds that the order may prevent, mitigate or remedy adverse impacts on Aboriginal and treaty rights.

In addition, the EAA allows a person with concerns pertaining to potential adverse impacts to Aboriginal or treaty rights, to request under section 16 of the EAA that the Minister make an order requiring a comprehensive EA) or that conditions be imposed on the project. A request can only be made on the grounds that the order may prevent, mitigate or remedy adverse impacts on Constitutionally protected Aboriginal or treaty rights. Requests that are not made on these grounds will not be considered by the Minister. If a section 16 order request is received by the Minister, the proponent shall not proceed with their project until a decision is made by the Minister on the request, or the ministry notifies the proponent that they may proceed.

The information in the notices should include what the grounds for a request must be (i.e., that the order may prevent, mitigate or remedy adverse impacts on Constitutionally protected Aboriginal or treaty rights), how to submit a request for a section 16 order, and timing for the public comment period, and information that must be submitted to the ministry in making a request. This includes:

a) Requester contact information, including full name;
b) Project name;
c) Proponent name;
d) The type of order that is being requested (requiring a comprehensive EA before being able to proceed, or that conditions be imposed on the project);
e) Specific reasons on how an order may prevent, mitigate or remedy potential adverse impacts on Aboriginal and treaty rights;
f) Information about efforts to date to discuss and resolve concerns with the proponent; and
g) Any other information in support of statements in the request.

If a request for a section 16 order is received by the ministry that meets the grounds in section 16(6), the ministry will contact the proponent for a response to the concerns raised in the section 16 order request. The proponent must respond in a timely manner with complete information to any request.

1.4.7 Canadian Environmental Assessment Act

The Canadian Environmental Assessment Act (CEAA) forms the basis of the federal environmental assessment process at the project level. There are two (2) main conditions for the Act to apply:

- The proposed project has to meet the definition of "designated project" as set out in the Act. A "designated project" means one or more physical activities designated by the regulations; and

- Each physical activity must be linked to one of the following responsible authorities:
  - Canadian Environmental Assessment Agency;
  - Canadian Nuclear Safety Commission; or
  - National Energy Board.

This project currently does not meet the conditions for a federal environmental assessment.

1.4.8 Ministry Codes of Practice and Climate Change Guidance

The ministry has developed codes of practice to provide guidance on key aspects of the Class EA process. The codes of practice include:

- *Preparing, Reviewing and Using Class Environmental Assessments in Ontario;*
- *Consultation in Ontario's Environmental Assessment Process; and*
- *Using Mediation in Ontario's Environmental Assessment Process.*

Together, the codes of practice:

- Set out the ministry's expectations for the content of a variety of EA documents and provide guidance on the roles and responsibilities of all participants in the EA process;
- Provide clear direction to proponents, EA practitioners, and other stakeholders involved in both comprehensive and streamlined EA processes including Class EAs, consultation and mediation; and
- Promote the transparency of government involvement and the decision making process when projects must meet the requirements of the EAA.

In addition to these codes of practice, the ministry has also developed the following guidance document: **Considering Climate Change in the Environmental Assessment process.**

The guide is a companion to the codes of practice and sets out the ministry's expectations for considering climate change in the preparation, execution and documentation of EA studies and processes.

The guide describes two types of climate change effects that can be considered. The first is the effect that a project can have on climate change. In this instance, the issue to be considered is the degree to which the project can provide some climate change mitigation measures by reducing carbon emissions and/or enhancing/protecting natural landscapes that act as carbon sinks. The second is the effect climate change has on a project. In this instance, the issue to be considered is the degree to which the project can demonstrate adaptation to climate change impacts.

1.4.8.1 Climate Change Mitigation

Climate change mitigation is a “big picture” issue. The most significant impact where decisions are made for climate change mitigation (i.e., greenhouse gas emission reduction / protection and enhancement of natural areas as carbon sinks) relates to high level planning in a community. These types of planning decisions generally take place long before an undertaking is considered in the context of the EAA.

The Provincial Policy Statement and A Place to Grow: Infrastructure system development expansion and improvement projects that fall under the MCEA follow the strategic direction of the high-level planning decisions. The impact on climate change mitigation between alternative conceptual solutions (Phase 2 of the MCEA) or optional design approaches (Phase 3 of the MCEA) could be relatively minor at this stage of the development of an undertaking. This would be a basis for a proponent to scale the level of evaluation associated with climate change mitigation assessment in the project.

A logical approach to incorporate some consideration into the MCEA evaluation is to include climate change mitigation criteria into the decision-matrix as one of the factors impacting the selection of a preferred solution (Phase 2 of the MCEA) and/or preferred project design option (Phase 3 of the MCEA). Possible criteria descriptions may be as follows:

- Potential for greenhouse gas emission reduction measures; and
- Potential for protecting/enhancing carbon sinks (i.e., natural landscapes)

These accommodate qualitative statements, such as “high / medium / low” to be part of the decision matrix based on potential measures that an option may be able to accommodate in reducing greenhouse gas emissions or protecting / enhancing carbon sinks.

1.4.8.2 Climate Change Adaptation

Climate change adaptation is a project specific issue. Any weather event related to climate change that exerts an influence on a project can be considered an effect of climate change on a project. Extreme weather events and phenomenon are changing the performance of level of service for existing infrastructure systems and impacting the basis of designing new systems for the future.

Climate change effects can be localized to property/project specific sites (e.g., flooding from extreme rainfall events), or widespread over large areas or regions (e.g., higher community water

demands from drought conditions, ecosystem resilience issues from rain, drought, ice and windstorms or other extreme events of nature).

Effects of climate change on widespread areas would typically be addressed in master plan and high-level planning studies of community infrastructure needs. Many of these decisions would be addressed through higher level community planning processes under the Planning Act and aligning with appropriate Provincial Policy Statements, and other policies that incorporate climate change considerations.

Addressing the potential effects of climate change on localized properties and projects ultimately becomes part of the design process, where infrastructure systems and structures are designed in such a way as to adapt and be resilient to extreme weather events. The impact on climate change adaptation between alternative conceptual solutions (Phase 2 of the MCEA) or optional design approaches (Phase 3 of the MCEA) could be relatively minor at this stage of the development of an undertaking.

A logical approach to incorporate some consideration into the evaluation, if warranted, is to include climate change adaptation criteria into the decision-matrix as one of the factors impacting the selection of a preferred solution (Phase 2 of the MCEA) and/or preferred project design option (Phase 3 of the MCEA). Possible criteria descriptions may be stated as follows:

- Vulnerability of project/infrastructure to climate change effects; and
- Flexibility to incorporate climate change adaptation measures in design.

These criteria accommodate qualitative statements, such as “high / medium / low” to be part of the decision matrix based on degree of vulnerability between options to climate change effects and flexibility to accommodate adaptation features into the design of an undertaking.

In summary, climate change considerations need to be incorporated into the MCEA process, but these must be scaled appropriately to be practically applied for the types of projects proceeding pursuant to MCEA.

1.4.9 Provincial Planning Statement (PPS), 2024 (PPS)

This section outlines the pertinent information from PPS along with section numbers (as they appear in PPS).

Chapter 1: Introduction

Vision

Ontario is a vast, fast-growing province that is home to many urban, rural and northern communities distinguished by different populations, economic activity, pace of growth, and physical and natural conditions.

Cultural heritage and archaeology in Ontario will provide people with a sense of place. And while many Ontarians still face a complex range of challenges, municipalities will work with the Province

to support the long term prosperity and well-being of residents through the design of communities responsive to the needs of all Ontarians.

Ontario will continue to recognize the unique role Indigenous communities have in land use planning and development, and the contribution of Indigenous communities' perspectives and traditional knowledge to land use planning decisions. Meaningful early engagement and constructive, cooperative relationship-building between planning authorities and Indigenous communities will facilitate knowledge-sharing and inform decision-making in land use planning.

Role of the Provisional Planning Statement

The Provincial Planning Statement provides policy direction on matters of provincial interest related to land use planning and development. As a key part of Ontario's policy-led planning system, the Provincial Planning Statement sets the policy foundation for regulating the development and use of land province-wide, helping achieve the provincial goal of meeting the needs of a fast-growing province while enhancing the quality of life for all Ontarians.

Zoning and development permit by-laws are important for the implementation of the Provincial Planning Statement. Zoning and development permit by-laws prepared by municipalities should be forward-looking and facilitate opportunities for an appropriate range and mix of *housing options* for all Ontarians.

The Province's rich cultural diversity is one of its distinctive and defining features. Indigenous communities have a unique relationship with the land and its resources, which continues to shape the history and economy of the Province today. Ontario recognizes the unique role Indigenous communities have in land use planning and development, and the contribution of Indigenous communities' perspectives and traditional knowledge to land use planning decisions. The Province recognizes the importance of consulting with Aboriginal communities on planning matters that may affect their section 35 Aboriginal or treaty rights.

Legislative Authority

The Provincial Planning Statement is a policy statement issued under the authority of section 3 of the Planning Act and came into effect on October 20, 2024. The Provincial Planning Statement applies to all decisions in respect of the exercise of any authority that affects a planning matter made on or after October 20, 2024.

In respect of the exercise of any authority that affects a planning matter, section 3 of the *Planning Act* requires that decisions affecting planning matters shall be consistent with policy statements issued under the Act.

The key policies that apply to the development of a new water supply well in West Grey, in subsequent chapters of PPS, are listed as follows:

Chapter 2: Building Homes, Sustaining Strong and Competitive Communities

2.1 Planning for People and Homes

2. Municipalities may continue to forecast growth using population and employment forecasts previously issued by the Province for the purposes of land use planning.

3. At the time of creating a new official plan and each official plan update, sufficient land shall be made available to accommodate an appropriate range and mix of land uses to meet projected needs for a time horizon of at least 20 years, but not more than 30 years, informed by provincial guidance. Planning for *infrastructure*, *public service facilities*, *strategic growth areas* and *employment areas* may extend beyond this time horizon.

4. To provide for an appropriate range and mix of *housing options* and densities required to meet projected requirements of current and future residents of the *regional market area*, planning authorities shall:

    a) maintain at all times the ability to accommodate residential growth for a minimum of 15 years through lands which are *designated and available* for residential development; and
    b) maintain at all times where new development is to occur, land with servicing capacity sufficient to provide at least a three-year supply of residential units available through lands suitably zoned, including units in draft approved or registered plans.

2.3 Settlement Areas and Settlement Area Boundary Expansions

2.3.1 General Policies for Settlement Areas

2. Land use patterns within *settlement areas* should be based on densities and a mix of land uses which:

    a) efficiently use land and resources;

    b) optimize existing and planned *infrastructure* and *public service facilities*;

6. Planning authorities should establish and implement phasing policies, where appropriate, to ensure that development within *designated growth areas* is orderly and aligns with the timely provision of the *infrastructure and public service facilities*.

2.9 Energy Conservation, Air Quality and Climate Change

1. Planning authorities shall plan to reduce greenhouse gas emissions and prepare for the *impacts of a changing climate* through approaches that:

    a) incorporate climate change considerations in planning for and the development of *infrastructure*, including stormwater management systems, and *public service facilities*;

    b) support energy conservation and efficiency;

c) promote *green infrastructure, low impact development*, and *active transportation*, protect the environment and improve air quality; and

d) take into consideration any additional approaches that help reduce greenhouse gas emissions and build community resilience to the *impacts of a changing climate*.

Chapter 3: Infrastructure and Facilities

3.1 General Policies for Infrastructure and Public Service Facilities

1. *Infrastructure* and *public service facilities* shall be provided in an efficient manner while accommodating projected needs.

2. Before consideration is given to developing new *infrastructure* and *public service facilities*:

   a) the use of existing *infrastructure* and *public service facilities* should be optimized; and

   b) opportunities for adaptive re-use should be considered, wherever feasible.

3. *Infrastructure* and *public service facilities* should be strategically located to support the effective and efficient delivery of emergency management services, and to ensure the protection of public health and safety in accordance with the policies.

3.6 Sewage, Water and Stormwater

1. Planning for *sewage and water services* shall:

   a) accommodate forecasted growth in a timely manner that promotes the efficient use and optimization of existing *municipal sewage services* and *municipal water services* and existing *private communal sewage services* and *private communal water services*;

   b) ensure that these services are provided in a manner that:

      1. can be sustained by the water resources upon which such services rely;

      2. is feasible and financially viable over their life cycle;

      3 protects human health and safety, and the natural environment, including the *quality and quantity of water*; and

      4. aligns with comprehensive municipal planning for these services, where applicable.

   c) promote water and energy conservation and efficiency;

   d) integrate servicing and land use considerations at all stages of the planning process;

   e) consider opportunities to allocate, and re-allocate if necessary, the unused system capacity of *municipal water services* and *municipal sewage services* to support

efficient use of these services to meet current and projected needs for increased housing supply; and

2. Municipal sewage services and municipal water services are the preferred form of servicing for settlement areas to support protection of the environment and minimize potential risks to human health and safety. For clarity, *municipal sewage services* and *municipal water services* include both centralized servicing systems and decentralized servicing systems.

7. Planning authorities may allow lot creation where there is confirmation of sufficient *reserve sewage system capacity* and *reserve water system capacity*.

Chapter 4: Wise Use and Management of Resources

4.1 Natural Heritage

4. *Development* and *site alteration* shall not be permitted in:

   a) *significant wetlands* in Ecoregions 5E, 6E and 7E1; and

   b) *significant coastal wetlands*.

5. Development and site alteration shall not be permitted in:

   a) *significant woodlands* in Ecoregions 6E and 7E (excluding islands in Lake Huron and the St. Marys River)1;

   b) *significant valleylands* in Ecoregions 6E and 7E (excluding islands in Lake Huron and the St. Marys River)1;

   c) *significant wildlife habitat*;

   d) *significant areas of natural and scientific interest*; and

6. Development and site alteration shall not be permitted in *fish habitat* except in accordance with *provincial and federal requirements*.

7. *Development* and *site alteration* shall not be permitted in *habitat of endangered species and threatened species*, except in accordance with *provincial and federal requirements*.

8. *Development* and *site alteration* shall not be permitted on *adjacent lands* to the *natural heritage features and areas* identified in policies unless the *ecological function* of the *adjacent lands* has been evaluated and it has been demonstrated that there will be no *negative impacts* on the natural features or on their *ecological functions*.

4.2 Water

1. Planning authorities shall protect, improve or restore the *quality and quantity of wate*r by:

   e) implementing necessary restrictions on *development* and *site alteration* to:

1. protect all municipal drinking water supplies and *designated vulnerable areas*; and

2. protect, improve or restore vulnerable surface and ground water, and their *hydrologic functions*;

f) planning for efficient and sustainable use of water resources, through practices for water conservation and sustaining water quality;

2. Development and site alteration shall be restricted in or near sensitive surface water features and sensitive ground water features such that these features and their related hydrologic functions will be protected, improved or restored, which may require mitigative measures and/or alternative development approaches.

3. Municipalities are encouraged to undertake, and *large and fast-growing municipalities* shall undertake *watershed planning* to inform planning for *sewage and water services* and stormwater management, including *low impact development*, and the protection, improvement or restoration of the *quality and quantity of water*.

Chapter 5: Protecting Public Health and Safety

5.2 Natural Hazards

3. *Development* and *site alteration* shall not be permitted within:

c) areas that would be rendered inaccessible to people and vehicles during times of *flooding hazards, erosion hazards and/or dynamic beach hazards*, unless it has been demonstrated that the site has safe access appropriate for the nature of the *development* and the natural hazard;

4. Planning authorities shall prepare for the *impacts of a changing climate* that may increase the risk associated with natural hazards.

Chapter 6: Implementation and Interpretation

6.1 General Policies for Implementation and Interpretation

2. The Provincial Planning Statement shall be implemented in a manner that is consistent with the recognition and affirmation of existing Aboriginal and treaty rights in section 35 of the *Constitution Act*, 1982.

2 INTENT OF ENVIRONMENTAL STUDY REPORT (ESR)

The intent of this report is to outline the steps that West Grey has taken to satisfy the requirements of the Municipal Class Environmental Assessment Planning Process for a Schedule C project. The Environmental Study Report (ESR) details the following:

- Background of the project;
- Review of nature and extent of the problem or opportunity, outlines the source of the concern or issue;
- Inventory of Natural, Social, Economic Environment;
- Identifies the solutions that are possible for additional raw water supply and impact of solutions on the environment and the mitigating measures; and
- Evaluate alternative water treatment solutions and identify recommended solutions for water supply.

3 PUBLIC AND REVIEW AGENCY CONSULTATION

3.1 Consultation

3.1.1 General

The consultation process is an integral component of the Municipal Class EA process. This section details the consultation process adopted by the proponent.

3.1.2 Stakeholder Consultation

Potential stakeholders included but are not limited to:

- Public – This includes individual members of the public including property owners who may be affected by the project, individual citizens who may have a general interest in the project, special interest groups, community representatives and the general public;

- Review agencies – This includes government agencies who represent the policy positions of their respective departments, ministries, authorities or agencies; and

- Identified Aboriginal Communities.

Members of the public were notified of project commencement and invited to attend the Public Consultation/Meetings by way of notices published by the proponent.

A list of relevant agencies and the appropriate contact person was developed at the onset of the process and was updated after determining the impact of new well on private residence's water supplies. These contacts were sent letters notifying them of the project and milestones including the development of the preferred planning alternative and the preferred design solutions.

3.1.3 Aboriginal Consultation

A list of relevant Aboriginal Communities were provided with letters notifying them of project commencement and project details.

Appendix B contains the list of contacts for the review agencies including Aboriginal communities and copies of letters issued to the agencies. **Appendix C** contains a copy of correspondence received.

3.2 Notice of Commencement

The Notice of Commencement for Schedule C Class Environmental Assessment, Augmenting Capacity of Durham Water Works" was posted on the municipal website. A copy of the notice is included in **Appendix A**.

3.3 Public Information Meetings

3.3.1 General

The general public was notified of Discretionary Public Consultation and Phase 2 and Phase 3 meetings through advertising, postings on municipal website and public meetings. Copies of these notifications can be found in **Appendix A**.

3.3.2 Discretionary and Phase 2 Public Consultation

A discretionary public consultation was undertaken by way of providing the following information on municipal website:

- Identification of the Problem Statement.
- Description of Alternative Solutions for additional water supply and pertinent information relating to each solution. A Total of seven (7) Alternative Solutions were presented.
- Screening of alternative solutions and rationale of carrying or not carrying forward.
- Preliminary recommended alternative.
- Comment Sheet.
- Refer to **Appendix F** for “Problem Statement and Alternative Solutions” issued.

No comment sheet was received in response to the posted information.

3.3.3 Phase 3 Public Meeting

Phase 3 Public Meeting was held on Wednesday, August 6, 2025 at West Grey’s Council Chambers. A formal PowerPoint presentation was made at 7:00 pm. The presentation outlined the following:

- Highlights of information provided for Discretionary and Phase 2 Public Consultation.
- Review of alternative solutions for additional water supply and selection of the Preliminary Recommended Alternative.
- Review of alternative design concepts for preferred water supply option.
- Evaluation of screened alternatives against public health and safety, natural environment, as well as social, cultural, legal, jurisdictional, economic, technical criteria, climate change and provincial policy statement.
- Selection of Preliminary Recommended Alternative.

Only six (6) members of the public were in attendance in addition to presenters. They were all municipal staff or council members. Following the presentation, a question period was held. Comment sheet(s) received in response to Public Meeting are provided in **Appendix F**. A copy of the presentation is also included in **Appendix F**.

3.4 Notice of Completion

The Notice of Completion is intended to be published in Owen Sound Sun Times. The publishing of this notice will be the beginning of the 30 day review period. The ESR will be available for public viewing at the following locations:

- West Grey Municipal Office
- Durham Public Library
- West Grey Municipal Website

4 GUIDING/SERVICING PRINCIPLES

In general, Servicing principles/guide should:

- Allow the proponent to translate the Municipalities Strategic Plan and Official Plan policies into more specific servicing proprieties;
- Allow the proponent to identify other servicing principles such as population growth and committed development. This factor is further discussed in **Section 5**.
- Allow for proposed solutions to be tested based on whether or not they meet the proponent's priorities; and
- Allow for comparison and ranking of proposed solutions (number of principles met, to what degree, etc.).

Durham, being a small town, does not have a Master Plan or a Strategic Development plan, other than an Official Plan, that must be adhered to. Durham, however, is experiencing growth pressures due to subdivision development as well as infill lot development, which is anticipated to exceed the existing water works' rated capacity.

The water works' capacity utilization is low, but as the approved subdivisions develop fully and subdivisions that have received Draft Plan Approval are also fully developed, there will be a shortfall in available water supply. Therefore, the guiding principle that must be considered is ensuring that the rated capacity of the water works is increased in a manner that approved subdivisions can fully develop and water supply capacity can meet long term needs, i.e. a design period of at least 25-30 years, and water supply capability of up to 40 years, if feasible.

5 POPULATION EQUIVALENT & GROWTH RATES

To calculate the projected water supply needs over the next 25 – 40 year horizon, population equivalent was calculated and utilized.

Population growth rates were then applied to population equivalent to determine long term water supply.

5.1 Population Equivalent

Population Equivalent was calculated as follows:

Current Residential Population Equivalent based on 1250 residences and 2.18 person per home as determined From 2016 Census Data	2,750
Population equivalent from Sunvale Subdivision per Functional Servicing Report	765
Population equivalent from Broos Subdivision per Functional Servicing Report	631
Population equivalent of 33 commercial and institutional users based on equivalent water consumption	524
Current Population Equivalent (includes fully developed Broos & Sunvale Subdivisions)	4,670

For the purpose of calculation of future water supply needs, it was assumed that the full buildout of Broos and Sunvale subdivision will be completed in 2027 and new Rockwood Terrace will also be fully commissioned by 2027. Therefore, the population equivalent of 4,670 in year 2027 was considered the base point.

5.2 Growth Rates and Water Supply Needs

The population equivalent forecast was completed for assumed growth rates of 2% per year. Each growth scenario was assessed for 15 years (short term), 25 years (intermediate term) and 40 years (long term) period from year 2027. The population equivalent and the corresponding water supply needs for a population growth rate of 2% were calculated to be as follows:

Design Period	Design Year	Population Equivalent	Average Day (m^3/day)	Maximum Day (m^3/day)
15 years	2042	6,286	2,046	4,091
25 years	2052	7,662	2,494	4,987
40 years	2067	10,312	3,356	6,377

The current water supply is rated at 3,011 m³/day. A water supply capability at a flow rate of 6,377 m³/day would require additional water supply of 3,366 m³/day (6,377 – 3,011 m³/day), which seemed excessive to obtain by way of additional wells. Accordingly, an alternative water supply objective of 4,987 m³/day, which would require additional water supply of 1,976 m³/day (4,987 - 3,011 m³/day), appeared more realistic and was therefore pursued for constructing a new water supply well.

6 NATURAL ENVIRONMENT REVIEW

6.1 Overview

As required by the Municipal Class EA, a review of the Natural Environment was considered to characterize the significance and sensitivity of the natural features in the study area and consider potential impacts and appropriate measures in order to avoid or minimize potential negative impacts on the surrounding environment.

A detailed natural environment list was not attempted or felt necessary because the well construction site selected for construction of new well was adjacent to an old pit on development site for Rockwood Terraces, where new senior care building was being built by Grey County to replace an old building. The site was also not too far from Curling Club building and existing Well 1B Pumphouse building, thereby causing little impact to the environment. There was some tree cover at the site but it was removed for the construction of Rockwood Terraces building and associated storm water management pond and parking lot.

6.2 Study Area

The study area is defined as the geographical area that could be affected by any of the project alternatives and was designed on the basis of the expected range of social and natural environmental effects associated with the construction of new well and water treatment plant building For practical purposes, the study area was considered to be the urban area of Durham and additionally the area within the anticipated cone of depression of well during its short-term and extended use.

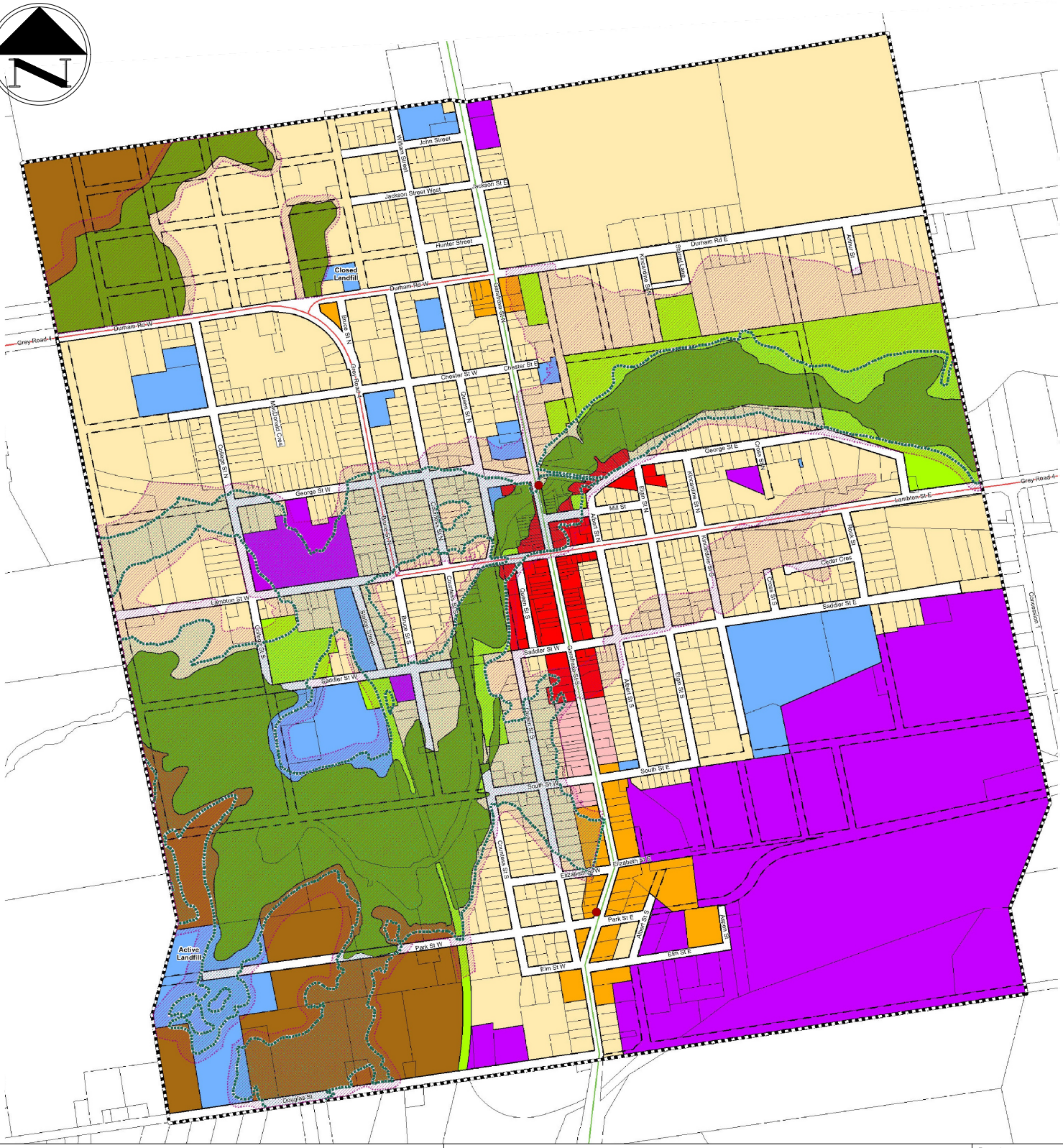
The following describes the project study area, including its location, existing land uses, natural environmental features and socio-economic environment. The following information was considered when reviewing potential effects of alternative solutions and design concepts.

6.2.1 Existing Land Use

Land use within Durham can generally be described as predominantly urban development including residential communities, institutional, recreational and commercial downtown core. Refer to **Figure No**. **6.1.**

6.2.2 Future Land Use

Future land use changes anticipated in the Durham area include growth of the urban area, (i.e. additional urban development) by way of new residential and institutional development. New residential development will occur on vacant land area where full municipal services are available, which will be in addition to infill development. Based on the projected population growth pattern, the urban area is anticipated to have enough land to provide for 25 years of residential growth in Durham. Durham's Official Plan anticipated that the pattern of development will change in the future. The Official Plan (**Figure 6.1**) overleaf depicts area where future development can occur, in addition to infill development.



Land Use Designations

- Residential
- Downtown Commercial
- Downtown Transition
- Highway Commercial
- Institutional
- Industrial
- Open Space
- Environmental Protection
- Future Development

Overlays

- Flood Fringe
- Regulated Area
- Hurricane Hazel Flood Event Standard
- Potential Former Landfill Site

Streets

- Provincial Highway
- County Road
- Municipal Street
- Unopened Municipal Street

Boundary

- Planning Area

MUNICIPALITY OF West Grey
nestled in nature

Design:	RS
Drawn:	TDL
APPROVED:	RS
Date:	NOV. 2025
Scale:	N.T.S.
FILE No.	22-037
FIG. No.	Fig. 6.1

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Wednesday, November 5, 2025 4:58:22 PM

6.2.3 Socio Economic Environment

Based on its location, Durham has a mix of commercial, institutional and minor recreational tourism based economy. The Municipality intends to maintain existing vibrant commercial activity in the downtown area. Durham Furniture is the largest private sector employer in Durham. Durham is located at the intersection of Hwy 6 and County Road #4 and is a busy town during summer months due to tourist traffic transiting to other summer destinations in Grey and Bruce Counties.

6.2.4 Natural Environment

Durham is developed along the banks of the Saugeen River. Significant natural features of the area include the lands adjacent to the riverbanks. The Saugeen River provides a warm water fish habitat and provides sport fishing opportunities to local anglers. The predominant species are thought to be bass and potentially northern pike. Another significant water feature is the Durham Creek that winds through the backyard of numerous residences, before discharging into the Saugeen River. The Creek also has a significant aquatic and fish habitat.

6.3 Field Studies and Investigations

Field work was not incorporated into the natural environment characterization due to very limited disturbance that will be caused by the construction of test and production well or the location of the water treatment plant, as well as the location of a raw watermain.

6.4 Hydrology

The study area is under the jurisdiction of the Saugeen Valley Conservation Authority (SVCA) and falls in the Saugeen River watershed. No impact was anticipated by well construction unless well would be directly under the influence of surface water or has a direct draw of water from the river, which was considered unlikely.

6.5 Aquatic Resources

The Saugeen River and Durham watershed supports warm water fish communities. No potential impact was anticipated on aquatic resources by construction of a drilled bedrock well or the water treatment plant, or raw watermain.

6.6 Wetlands

There are no identified wetlands in the study area near project activities location, which could be impacted by proposed upgrades.

6.7 Significant Woodlots and Natural Areas

Testing or construction of a new well was anticipated to be confined to the existing disturbed area and therefore there are no significant woodlot or natural areas that are anticipated to be impacted by the well construction or construction of water treatment plant building or raw watermain.

6.8 Species at Risk (SAR)

A preliminary list of Species at Risk was obtained from NHIC website by using “map tool”. This tool utilizes 1 km x 1 km grid to generate SAR. It was felt that none of the SAR on the lot could be encountered in the project activity area. Email correspondence was employed for screening of SAR list. A biologist at SAR Ontario was consulted and it was determined by GSS Engineering Consultants Ltd.’s in house expert that the project or any of its activity will not adversely impact any of the species on list generated by using “map tool”.

7 IDENTIFICATION OF ALTERNATIVE SOLUTIONS FOR A RAW WATER SUPPLY SOURCE

The Municipal Class EA process recognizes that there are several ways to solve the problem and requires that various alternative solutions are considered. The list of alternative solutions that were considered are as follows:

1) Do nothing;

2) Limit growth;

3) Reduce water losses and improve conservation;

4) Increased water supply from existing well(s);

5) Construct new water supply well and associated treatment plant;

6) Construct new surface water supply source intake and associated treatment plant;

7) Treated water supply from another Water Work in West Grey or adjacent municipality.

A description of each alternative and applicable comments are provided in **Table 7.1.**

TABLE 7.1 - Alternative Solutions to Upgrading Durham Water Works

22-037

ALTERNATIVE	DESCRIPTION	COMMENTS
1. Do Nothing	• No improvements or changes would be undertaken to address capacity issue(s).	"Do Nothing" alternative represents what would occur if none of the alternative solutions were implemented
2. Limit Growth	• Maintain existing water works and associated distribution system in existing condition and limit future growth • No increase in serviced population • Requires a change to municipal planning documents to limit growth	➢ Does not address significant water distribution losses and wastage of natural resource
3. Reduce water loss from distribution system and improve water conservation	• Continue to utilize current WTP and distribution system • Address "water loss from distribution system" • Aggressively implement existing water conservation measures • Enforce lawn watering restrictions	➢ This alternative is a long term solution, and also very expensive and may not fully address water demand issue ➢ Leak detection surveys conducted by West Grey have failed to accurately determine all water loss locations. ➢ Will require gradual replacement of all CI & DI watermains along with street reconstruction at significant expense ➢ A partly viable alternative to supplement other viable alternative(s) and should be pursued further.
4. Increased water supply from existing well(s)	• Need a Hydrogeological investigation to determine if existing well(s) can supply more water • If yes, obtain permits and approval from MECP • Increase treatment equipment capacity as needed to match increased water supply • Undertake environmental assessment	➢ May not provide additional supply in adequate quantity to address projected shortfalls in water supply needs. ➢ Still good alternative to supplement other viable alternative(s) and should be pursued further.

ALTERNATIVE	DESCRIPTION	COMMENTS
5. Construct new groundwater supply source and associated treatment plant	• Drill new water well for additional water supply, preferably near existing water treatment building locations • Construct new or upgrade existing water treatment equipment and building • Procure new land(s) as needed • Undertake detailed hydrogeological investigation to ensure long-term water supply capabilities • Undertake Source Water Protection Study to update the existing source water protection areas. • Connect to exiting water distribution network • Undertake Environmental Assessment	➢ New well, new treatment building or upgrading existing building will be capital intensive project ➢ Risks are associated with new drilled wells capability of supplying adequate quantity, or water quality not complying with ODWS ➢ Relatively easier method to add additional water supply and treatment capacity
6. Construct new surface water supply source intake and associated treatment plant	• Saugeen River is a potential raw water supply source • Determine suitable location and construct river water intake, after obtaining all approvals • Construct raw water pumping station to supply water to treatment plant • Construct new WTP building and connect to existing water distribution network • Undertake Environmental Assessment	➢ Surface water sources are prone to contamination and have highly variable water quality ➢ Treatment process can be far more complex and expensive when compared to groundwater source ➢ Operators need to remain on guard during period of water quality changes during spring and fall and take timely corrective steps. Highly skilled operation is required ➢ Generally less desirable option when good groundwater supply source is readily available ➢ Capital Project Cost is anticipated to be highest among all alternatives

ALTERNATIVE	DESCRIPTION	COMMENTS
7. Treated water supply from another Water Work in West Grey or adjacent municipality	• Will require approval from County and neighbouring municipality that could supply water • West Grey has Neustadt water works, but with insufficient spare capacity to support Durham needs • Neustadt is located at significant distance from Durham and will require construction of long water mains, associated booster pumping system and re-chlorination facility(ies) • Hanover is another water works that may be able to spare supply but is also at a significant distance from Durham. This alternative will require construction of long watermains associated booster pumping system and re-chlorination facilities • Obtaining treated water supply from Neustadt or Hanover is impractical and not a cost effective solution. Degradation of water quality during transportation will be a potential issue.	➢ Not likely a viable option ➢ Neustadt water works is not capable to supply additional water without significant upgrading of existing water works ➢ Typically, neighbouring municipalities saves surplus capacity of their water works for their own use rather than provide to others

8 SCREENING OF ALTERNATIVE SOLUTIONS

It is probable that environmental components as identified in **Section 6.0** will not necessarily be adversely impacted by all of the alternative solutions. In view of this, it is imperative that the identified alternative solutions are screened for suitability and short-listed before a detailed review process is undertaken.

The rational for screening of the alternative solution was based on the following:

- Inability of an Alternative to address the problem statement;
- Time consuming, especially if other suitable alternative is available; and
- Too expensive, especially if other suitable alternative is available.

A summary of the screening process is presented in **Table 8.1**, which is self-explanatory. Alternatives #1 and #4 were considered for a more detailed investigation.

Preliminary Recommended Alternative

Based on information outlined in **Table 7.1 and Table 8.1**, West Grey proposed to undertake further steps to complete Alternative #4 and Alternative #5 simultaneously.

TABLE 8.1 – Screening of Alternative Solutions

22-037

ALTERNATIVE	DECISION	RATIONALE FOR NOT CARRY FORWARD
1. Do Nothing	✓	Carried forward – must be considered
2. Limit Growth	X	Screened – does not address the problem
3. Reduce water loss and improve conservation	✓	Carried forward – must be considered in conjunction with additional water supply(ies)
4. Increased water supply from existing well(s)	✓	Carried forward – must be considered in conjunction with Alternative 3 and 5
5. Construct new groundwater supply source and associated treatment plant	✓	Carried forward – feasible alternative
6. Construct new surface water supply source and associated treatment plant	X	Screened – addresses the problem but time consuming and expensive and with operational challenges
7. Treated water supply from another water works in West Grey or adjacent municipality	X	Screened – not a feasible alternative

9 INVESTIGATION OF INCREASED WATER SUPPLY FROM EXISTING WELLS

Alternative #4 was further investigated by completing a desktop assessment of all available pumping data, water level measurement; review of remediation efforts and well testing completed by well contractor IWS (for Well # 1B). A detailed report entitled “Evaluation Of Potential For Additional Yield, Durham Municipal Wells 1B, 2 and 2A, Municipality of West Grey, Grey County” dated September 2022 prepared by GSS Engineering Consultants Ltd., concluded that there is a potential to obtain an additional 7% to 19% water supply from Well #1B but will require long term pumping test to substantiate that. However, the pumping test was not completed as potential additional water supply would be insufficient to meet long term needs.

Well #2 and 2A did not show any potential to provide additional water supplies.

Relevant information from the above referenced report is provided as follows:

Well 1B

Well 1B was most recently approved for a maximum pumping rate of 955 L/min (210 IGPM) and a maximum daily water taking of 1,364 m^3. The current approved maximum treatment capacity for the Well 1B Pumphouse is 1,375 m^3/day.

Review and analysis of the data from pumping tests of Well 1B conducted by IWS in 1987 indicated that there was potential to increase the maximum permitted pumping and treatment rates in order to obtain additional sustainable yield. Pumping simulations were performed using commercial aquifer evaluation software to estimate the drawdown in Well 1B for various pumping rates, based on aquifer properties that were estimated from the data presented for a 24-hour constant rate pumping test at a rate of 909 L/min (200 IGPM) by IWS in 1987. A report on a more recent short-term step pumping test conducted by IWS in 2019 indicated that the performance of Well 1B at the rates tested had not deteriorated relative to the performance in 1987.

The simulations indicated that there was a potential to increase the maximum pumping rate from Well 1B to 1,023 L/min (225 IGPM), and possibly 1,137 L/min (250 IGPM). That would represent potential increases of 7% and 19%, respectively, relative to the current maximum water taking rate.

The potential for increasing the maximum pumping rate from Well 1B would need to be assessed based on long-term pumping tests at the proposed higher rates. It was noted that the 1-hour step test carried out by IWS in 1987 at a rate of 1,023 L/min (225 IGPM) resulted in a substantial increase in the rate of drawdown relative to the recorded drawdown at a rate of 909 L/min (200 IGPM). Therefore, the aquifer properties derived from the pumping test at 909 L/min are not necessarily indicative of the aquifer response at rates of 1,023 or 1,137 L/min. There is also uncertainty regarding the depth of the main water-producing zones in the bedrock at Well 1B.

Wells 2 and 2A

Wells 2 and 2A are each currently approved for a maximum water taking rate of 1,135 L/min (250 IGPM); however, the combined water taking from the two wells also cannot exceed 1,135 L/min. The maximum combined daily water taking of 1,634.4 m^3/day is approximately equivalent to the maximum treatment capacity of 1,636 m^3/day for the Well 2 Pumphouse.

The information reviewed from pumping tests conducted in 2012 and 2013 and down-hole video logging of Well 2A in 2016 indicated that it was unlikely that additional sustainable yield could be obtained from Wells 2 and 2A beyond the current maximum permitted rates. There was also some evidence to suggest that the current permitted maximum rates may not be sustainable.

In view of the above information, Alternative #4 was also screened, as it was found unable to meet long-term water supply requirements of Durham Water Works.

10 NEW WATER SUPPLY INVESTIGATION PROGRAM

10.1 Construction and Testing of New Well #1C

Well 1C was constructed at a location 410 m east of existing Durham Well 1B on a small property was to be severed from the southwest corner of the 3.2-hectare block of land owned by the County of Grey and currently under development for expansion of the Rockwood Terrace long term care facility. The 300-mm diameter well encountered bedrock at a depth of 7.6 m, was cased to a depth of 17.4 m, and was advanced as an open hole in the bedrock to a total depth of 70.7 m.

Downhole geophysical testing including a video survey and vertical flow profiling indicated that under pumping conditions virtually all of the inflow into the well occurred below a depth of 45.3 mbgs. Four productive zones in the rock accounting for approximately 98% of the inflow were identified from the flow profiling data. Approximately 83% of the inflow was inferred to originate from three discrete open fractures identified at depths of approximately 59.2, 63.1, and 68.0 mbgs.

A pumping rate of 25 L/s for Well 1C was considered to be a safe long-term yield for the well. The results indicated the potential for a higher sustainable yield to be obtained from the well, but additional testing would be necessary to confirm that.

Water level monitoring data indicated that routine operation of Wells 2 and 2A, located approximately 630 m north of Well 1C, resulted in approximately 2.0 to 2.5 m of interference drawdown in Well 1C. Routine operation of the closer Well 1B was inferred to have relatively little effect on the water level in Well 1C.

A comprehensive program of analytical testing during the 72-hour test indicated that there were no issues with the water quality at Well 1C. In general, the water quality at Well 1C was similar to the quality at Wells 1B and 2/2A.

Review of available provincial well records for the vicinity of Well 1C indicated that most domestic wells were completed in a shallower, unconfined water-bearing zone in the bedrock aquifer. Well 1C was inferred to be completed in a deeper, confined water-bearing zone that was also utilized by Wells 1B and 2/2A. It was considered unlikely that existing private wells would be negatively impacted by operation of Well 1C.

No evidence of direct surface water influence on the water quality at Well 1C was identified.

10.2 Well Head Protection Area (WHPA), Modelling and Communication with Property Owners

Following the completion of new Well #1C construction and testing, West Grey proceeded to complete the next requirement relating to the Source Water Protection Study. Aqua Insight Inc., who specializes in computer modelling of well water supplies, were retained to complete the study. A report entitled “Source Protection Study for the Community of Durham, ON”, dated February 2026 was prepared and submitted to Drinking Water Source Protection Agency, which was engaged throughout the study progress.

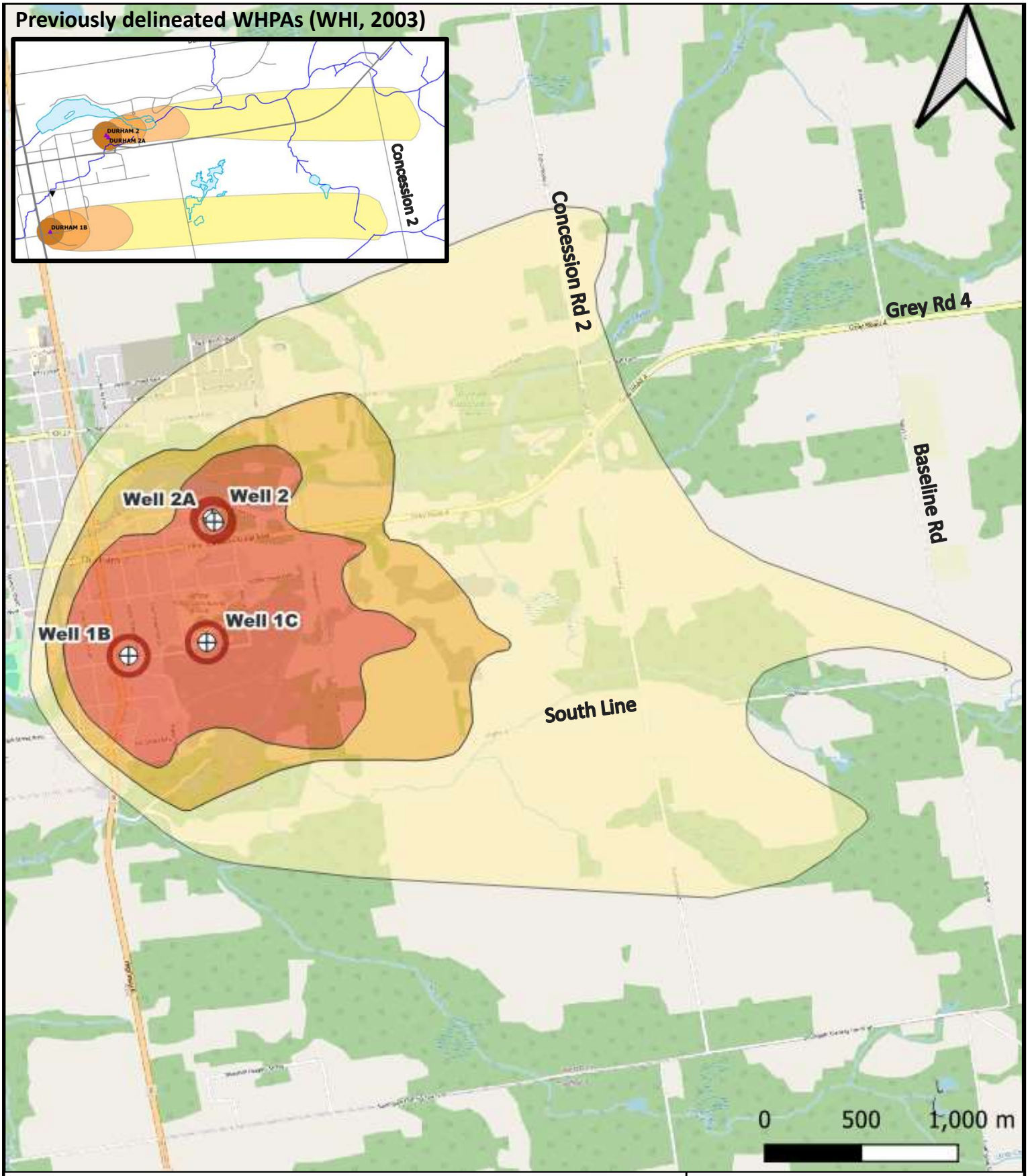
The modelling considered the impact of all existing wells #2, 2A and 1B in conjunction with new Well #1C to determine the new WHPA. Water supply aquifers for Well #1C were found to be somehow linked with the aquifer supplying water to Well #2 and 2A. The new WHPA is shown on **Figure 4-2a**, obtained from Aqua Insight's report and enclosed overleaf. This figure also shows the previously described WHPA as determined in 2003 by an inset in the figure.

Subsequently, West Grey, in consultation with Carl Seider, prepared a notification letter and sent it to all affected property owners on March 19, 2026. A copy of the letter and the notification list is included in **Appendix E**.

Mr. Paul Arnill, who owns property (Durham Stone and Paving or DSP) to the south of Well #1C, has responded with a letter dated March 27, 2026, a copy of which is included in **Appendix E**. The letter does not provide any objection to Well #1C, but he wants a consideration given to DSP's MECP issued Provisional Certificate of Approval #A60022 for the processing of organic waste on Part Lot 27, Concession 2, East of Garafraxa Road. The letter acknowledges that the organic facility has not been constructed yet.

Mr. Carl Seider provided a detailed response to West Grey by way of an email dated April 15, 2026. A copy of this email is also included in **Appendix E**. Mr. Seider has indicated that processing organic waste on this property would be permitted, but we would need additional information on the types/categories of organic wastes being considered (e.g. municipal, farm) along with measures installed to prevent impacts on groundwater. A risk management plan for Non-Agricultural Source Material storage/handling would also be required, as well as Ministry conditions on any ECA/EASR approvals.

Paul Arnill's letter also makes reference to washing of high grade aggregate and proposed use of Well #1B (GSS believes that well is incorrectly named in the letter) for commercial-grade water bottling site. However, the letter does not explicitly support or oppose the ongoing EA process, and letter intent is unclear at this stage, except for requesting consideration to organic waste processing.



Legend

- Durham Wells
- Waterbody
- Watercourse

Well Head Protection Areas

- 100 m Buffer (WHPA-A)
- 2 years (WHPA-B)
- 5 years (WHPA-C)
- 25 years (WHPA-D)

Source Water Protection Study for the Community of Durham

Durham Composite Capture Zones under Future Pumping Rates

Aqua Insight

4-2a

11 WATER TREATMENT AND ALTERNATIVE DESIGN CONCEPTS

The new water supply from Well #1C is similar to Well #1B and Well #2A in terms of water quality. Therefore the raw water can be treated at Well #1B or pumphouse or Well #2 pumphouse or in a new treatment plant building. Factors that were considered relevant for the evaluation of water treatment options included:

- Distance and length of raw watermain between Well #1C and Well # 1B and Well #2 pumphouses and treatment plant buildings.
- Raw water quality issue during travel to pumphouse.
- Ability to accommodate additional equipment in pumphouse(s).
- Standby power capability.
- Site space restriction.

Accordingly, the following Alternative Design Concepts were investigated:

A. Construct new water treatment plant building at Well #1C location.

B. Treatment of raw water at existing treatment plant at:

   (i) Well #2 pumphouse, or

   (ii) Well #1B pumphouse.

11.1 Analysis Of Design Concepts

11.1.1 Alternative A: New Water Treatment Plant Building At Well #1c Location

Highlights of this alternative include:

- Will require a new treatment plant building and larger lot to accommodate the building.
- Plant building needs to accommodate cartridge filter, UV reactor, and associated piping and valves.
- New diesel generator for backup power.
- New PLC and control equipment.
- This alternative is the most expensive Design Alternative for Raw water treatment.

Accordingly, Alternative A was not considered a suitable alternative, especially if raw water treatment at Well #1B or Well #2 plant building is feasible.

11.1.2 Alternative B: Raw Water Treatment At Well #1b Or Well #2 Plant Building

Well #1C water supply can be treated at Plant Building at Well #1B (Alternative: B(ii)) or Well #2 (Alternative B(i)) site. The common features for both locations are:

- Both locations require construction of raw watermain from Well #1C to respective buildings
- Expansion of treatment plant building is required
- Additional cartridge filter and UV reactor are needed
- SCADA/PLC upgrades.
- Associated civil, electrical and mechanical upgrades

11.1.2.1 Alternative B(i) - Well #2 Pumphouse

The alternative is a less desirable alternative due to:

- Longer length of raw watermain required from Well #1C to Plant Building location
- Raw watermain construction is very expensive due to need for significant restoration requirement on several existing streets
- Possible raw water quality issues due to water stagnation in longer piping between well pump on-off cycles.
- The site is very restricted and has no additional room at site to expand the existing plant building.

11.1.2.2 Alternative B(ii) - Well #1B Pumphouse

The alternative is relatively better than Alternative B(i) and is more desirable Alternative due to:

- Shorter length of raw watermain required between Well B #1C and plant building section.
- Practically no water quality issues due to water stagnation in much shorter raw water main length.
- Raw watermain construction is relatively less expensive due to shorter distance and fewer fully developed streets.
- Majority of construction is on new road access to Rockwood Terrace from South St.
- Only one (1) existing street block will be disrupted.
- Building site is tight but has some room to expand existing pumphouse.

11.2 Screening Of Alternative Design Concepts

Based on review of the highlights for alternatives design concepts for treatment of raw water supply from Well #1C, some design options as discussed in **Section 11.1** were screened off for being unsuitable due to capital cost, disturbance by construction, availability of space, etc. The screening information is summarized in **Table 11.1**. Accordingly Alternative B(ii) which considered Well #1C raw water supply treatment at Well # 1B Plant Building was considered for further evaluation.

Table 11.1 - Screening of Alternative Design Concepts

22-037

ALTERNATIVE	DECISION	RATIONALE FOR NOT CARRYING FORWARD
Alternative A: New Water Treatment Plant Building	**X**	Most expensive option, but feasible.
Alternative B(i): Water Treatment at Well #2 Pumphouse	**X**	Feasible but much more expensive than B(ii)
Alternative B(ii): Water Treatment at Well #1B Pumphouse	✓	Feasible and least expensive

12 EVALUATION METHODOLOGY

12.1 Development of Evaluation Framework and Criteria

Evaluation criterion for the short listed alternative solutions were developed based on the following environmental components which address the broad definition of the environment described in the EAA[1].

The environmental components are briefly described in **Table 12.1** as follows:

Based on the above environmental components, the evaluation criteria were developed and used to evaluate the short list of alternative solutions. Refer to **Table 12.2**

12.2 Use of Descriptive Information and Qualitative Evaluation

An evaluation of screened alternative was completed based on the previously described evaluation criteria components. Alternatives were ranked under each evaluation criteria.

The evaluation used in this report is not based on a descriptive or qualitative evaluation and considers the suitability of alternative solutions. In this respect, the trade-offs that have been made between alternatives are described in the text of the report and these trade-offs form the rationale for the identification of the preferred solution(s). Trade-offs involve forfeiting an advantage or accepting a disadvantage to address a higher priority consideration. The screened alternatives have been ranked in order of preference (based on advantages/disadvantages) under the discussion with respect to each aspect of the environment. This is intended to assist the reader in understanding the results of the evaluation process.

As shown on **Table 13.1 to 13.4** (in **Section 13**), the following colored rating symbols were used to summarize the results of the evaluation.

[1] The Environmental Assessment Act (Section 1. (i)(a) to (f), defines the “environment’ as: “air, land, water, plant and animal life including human life; the social, economic and cultural conditions that influence the life of humans or a community; any building, structure, machine or other device or thing made by humans; any solid, liquid, gas, odor, heat, sound, vibration or radiation resulting directly or indirectly from human activities, or; any part or combination of the foregoing and the interrelationship between any two (2) or more of them in or of Ontario”. This definition of the environment is used and is reflected in the environmental components used in the Phase Two evaluation

Table 12.1 - Environmental Components

22-037

Environmental Component	Description
Public Health and Safety	• Component having regard for protecting the public's health and safety including drinking water.
Natural Environment	• Component having regard for protecting the natural and physical components of the environment (i.e. air, land, water and biota) including natural heritage-environmentally sensitive areas. • Includes "Species At Risk" or SAR Component.
Social/Cultural	• Component that evaluates potential effects on residents, neighborhoods, businesses, community character, social cohesion, community features and historical, archaeological and heritage components in addition to municipal development objectives.
Legal/Jurisdictional	• Component that considers the Municipality's ability to control such as water rates as well as land and approval requirement for each alternative. • Component that considers the Aboriginal/First Nations Community rights.
Technical	• Component that considers technical suitability and other engineering aspects of the system including constructability and operations.
Economic/Financial	• Component that addresses estimated capital and operating costs.
Climate Change	• Component that consider Climate Change impact on the project or project's impact on Climate Change. • Consideration about Climate Change Mitigation and Climate Change Adaptations
Provincial Policy Statement	• Component that considers growth forecast, which much be for a time horizon of at least 20 years, but not more than 30 years. • Component that considers development that aligns with the timely provision of infrastructure and public service facilities. • Component that considers climate change. • Component that considers infrastructure is provided in an efficient manner, while accommodating projected needs.

	• Component that considers that use of existing infrastructure is optimized and reused before considering development of new infrastructure. • Component that considers infrastructure is strategically located to support effective and efficient delivery of EMS to ensure protection of public health and safety. • Component that considers opportunities to allocate and reallocate system capacity of municipal water and sewage services to support efficiency to meeting increased housing supply. • Component that considers that planning authorities allow lot creation where there is a confirmation of sufficient reserve water and sewage system capacity. • Component that considers restriction to protect drinking water supplies and designated vulnerable areas. • Component that considers efficient and sustainable use of water resources through conservation and sustaining water quality. • Component that considers access during times of flooding or erosion hazards.

Table 12.2 - Criteria for Evaluating Short List Alternative Solutions

22-037

Criteria	Short List Evaluation Criteria
Public Health and Safety	• Ability to comply with Provincial Ontario Drinking Water Quality Standards

Natural Environment	• Potential effects to natural environment (air, land, water):
	• Environmentally Sensitive Areas and Species:
	  • Distance to or impact on designated natural heritage areas (lands classified as ESAs, ANSIs, PSWs); and
	  • Vulnerable, threatened and/or endangered species identified by the MNR, SVCA, DFO in the area.
	  • Wetlands
	• Vegetation:
	  • Amount of vegetation, woodlands, hedgerows, etc. affected or removed.
	• Wildlife and birds
	  • Potential impact by construction and prolonged use of the constructed asset.
	• Potential private well interference
	• Impact on “Species at Risk” or SAR, if any.

Social/Cultural	• Policies and guidelines
	  • Conformity with planning policies and guidelines;
	  • Official Plan;
	  • Zoning By-Law:
	  • Provincial Policy Statement; and
	  • MECP policies.
	• Land Use:
	  • Compatibility with current and future land uses;
	  • Residential
	  • Open Space;
	  • Agricultural
	  • Size of buffer zone; and
	  • Aesthetics.
	• Archaeological and Cultural Areas, First Nations Land Claims:
	  • Potential impact to cultural and/or archeological resources; and
	  • Existence of land claims
	• Potential interference with private well supplies

Legal/Jurisdictional	• Required Approvals:
	  • Complexity and timeline for approvals.
	• Ability to control operations and rates:
	  • Nature of required inter-municipal agreements.
	• Land Acquisition:
	  • Amount required; and
	  • Nature of property acquisition (public vs. private)
	• Source Water Protection Areas (SWPA)
	  • Potential impact of SWPA of the new well

Technical	• Ability to meet capacity requirements:
	  • Ability to supply water to meet long-term raw water supply needs.
	• Compatibility with existing infrastructure:
	  • Ability to reuse existing infrastructure and the amount of new infrastructure required.
	• Degree of Operation Complexity:
	  • Level of treatment required; and
	  • Number of facilities to operate.
	• Construction Issues and Impacts:
	  • Impact to general public; and
	  • Degree of mitigation required.
	  • Excess Materials Management

Economic/Financial	• Capital and operating costs
	• Impact on Cost Recovery:
	  • Water Rates; and
	  • Government Grants.

Climate Change	• Impact of Climate Change on recharge capability of aquifier supplying water. • Impact due to construction methods employed for drilling of well and testing. • Impact due to design and construction of treatment plant and for treatment of raw water. • Viability of Climate Change Mitigation and Climate Change Adaptation measures.
Provincial Policy Statement	• Component that considers growth forecast, which much be for a time horizon of at least 20 years, but not more than 30 years. • Component that considers development that algins with the timely provision of infrastructure and public service facilities.

	• Component that considers climate change. • Component that considers infrastructure is provided in an efficient manner, while accommodating projected needs. • Component that considers that use of existing infrastructure is optimized and reused before considering development of new infrastructure. • Component that considers infrastructure is strategically located to support effective and efficient delivery of EMS to ensure protection of public health and safety. • Component that considers opportunities to allocate and reallocate system capacity of municipal water and sewage services to support efficiency to meeting increased housing supply. • Component that considers that planning authorities allow lot creation where there is a confirmation of sufficient reserve water and sewage system capacity. • Component that considers restriction to protect drinking water supplies and designated vulnerable areas. • Component that considers efficient and sustainable use of water resources through conservation and sustaining water quality. • Component that considers access during times of flooding erosion hazards.

13 EVALUATION OF SHORT LIST ALTERNATIVE SOLUTIONS

During first public consultation, Alternative #5 was intended to be pursued, if Alternative #4 investigation was unsuccessful. As noted in **Section 9.0** of this report, the existing water supply wells were found to be insufficient to supply additional water supply to meet long term raw water supply needs. Accordingly, Alternative #5 was pursued further. Construction of test well (Alternative #5) confirmed that new well could be constructed in the aquifer to supply requisite amount of water for long-term water needs, and it was possible to continue to utilize existing water treatment plant either at Well #1B or Wells 2 and 2A locations. Accordingly, Alternative #5 was pursued for water supply alternative. For raw water treatment design concepts. Alternative B(ii) was utilized for further evaluation.

13.1 Evaluation of Short List of Alternative Solutions

The evaluation of short listed solution was undertaken and summarized in **Tables 13.1 to 13.4** overleaf. Significant findings of this evaluation are presented below.

13.1.1 Public Health and Safety

Ability of Alternative to comply with Ontario Drinking Water Standards, MECP issued license and permit for Water Works.

Continued population growth in Durham would ultimately lead to Alternative No. 1 resulting in non-compliance with MECP issued license and permits, as water demands will exceed water supply permitted. Alternatives 5 and B(ii) would allow for continued growth while complying with ODWS, license and permit.

13.1.2 Natural Environmental Considerations

Potential effects to the natural environment: effect on air, land, water and biota considerations or constraints (where applicable).

Potential impact on air, land, biota is minimal to non-existent. However, there will be potential impact on aquifer supplying water to the well. Indiscriminate withdrawal can deplete aquifer faster than it can recuperate. However, detailed hydrogeological studies and investigations, and review and approval by MECP will eliminate/minimize such impact.

Alternative 5 and Alternative B(ii) may have an impact but it is manageable.

13.1.3 Social/Cultural Considerations

Conformity with local, county and provincial planning policies and guidelines.

Alternative No. 1 is incompatible with West Grey's and Grey County Official Plans and policies as well as Provincial Policy Statement requirements. Alternative No. 5 and B(ii) conforms with West

Table 13.1 – Evaluation of Alternative Solutions

22-037

Shortlist Alternative Solutions ↓	**Public Health & Safety**	**Natural Environment**	**Social / Cultural / Legal Jurisdictional**		**Evaluation Summary**
Criteria →	Ability to comply with ODWO, License & Permits	Potential effects for natural environment	Conformity with local, county, provinical planning policies & guidelines	Potential land use impacts & cultural /heritage /agricultural resources	Least Preferred ● ↓ ○ Most Preferred ●
Alternative 1 Do Nothing	✶ Non-Compliance if Growth Continues	✶None	Incompatible with: ✶Municipal goals and ✶Provincial policies		●
Alternative 5 New Groundwater Supply Well # 1C with Existing Well # 1B Pumphouse (Alternative B(ii))	✶ Can comply with Ontario Drinking Water Standards, which ensures Public Health & Safety	✶ Impact on Aquifer, but long-term evaluation will be completed and Provincial Approval will be obtained.	Will meet: ✶Provincial Policies ✶MECP License & Permit	✶Interference with Well #2 and #2A	○

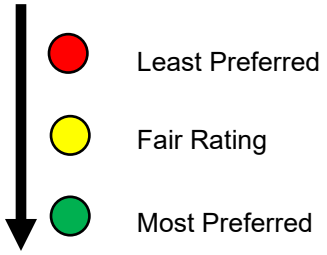


Table 13.2 – Evaluation of Alternative Solutions

22-037

Shortlist Alternative Solutions ↓	Technical			Evaluation Summary
	Capability, Reliability, Flexibility	Implementation & Operability	Construction Issues & Approvals	
Criteria →				Least Preferred ● ↓ ● Most Preferred ●
Alternative 1 Do Nothing	✶Cannot meet capacity requirements	✶None	✶No construction impact	●
Alternative 5 New Groundwater Supply Well # 1C with Existing Well # 1B Pumphouse (Alternative B(ii))	✶Will meet water supply requirements ✶Provides source redundancy	✶Maximize existing infrastructure use ✶Plant operation will not change significantly	✶Construction impact limited to site ✶Some traffic impact ✶Construction impact minimal (with proper mitigation measures) ✶Approvals under West Grey control	●

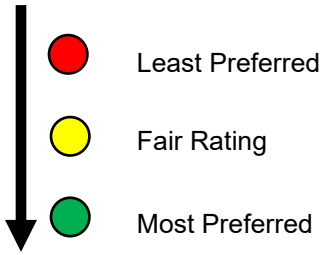


Table 13.3: Evaluation of Alternative Solutions: (Climate Change, Provincial Policy Considerations)

22-037

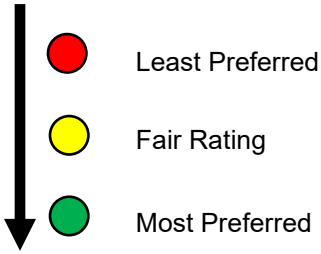
Shortlist Alternative Solutions ↓	Climate Change		Provincial Policy Statement						Evaluation Summary
	Mitigation	Adaptation	Growth Forecast	Timely Action	Efficient Utilization	All Time Access	Efficient Allocation of Resources	WHPA Impact	
Alternative 1 Do Nothing	✶ None possible	✶ None possible	✶ Cannot meet water demand	✶ None	✶ Cannot meet water supply needs	✶ Addresses the issue	✶ Does not meet	✶ No new impact	🔴
Alternative 5 New Groundwater Supply Well # 1C with Existing Well # 1B Pumphouse (Alternative B(ii))	✶Optimization is possible	✶Not needed or possible	✶ Meets forecasted water demands	✶Addresses timely action	✶Addresses efficient utilization	✶Addresses the issue	✶ Addresses efficient allocation of capacity	✶ Addresses WHPA & vulnerability assessment	🟢

↓
🔴 Least Preferred
🟡 Fair Rating
🟢 Most Preferred

Table 13.4 - Evaluation Summary

22-037

Shortlist Alternative Solutions	Public Health & Safety, Natural Environment, Social/Cultural Legal Jurisdictional	Climate Change	Provincial Policy Statement	Technical	Overall
Alternative 1 Do Nothing					
Alternative 5 New Groundwater Supply Well # 1C with Existing Well # 1B Pumphouse (Alternative B(ii))					



Grey and Grey County Official Plan goals and policies as well as the Provincial Policy Statement requirements.

13.1.4 Legal/Jurisdictional Considerations

Potential land use impacts including compatibility with surrounding land uses as well as cultural/heritage/agricultural resources.

Alternatives No. 5 and B(ii) achieves conformity with Provincial Planning policies, guidelines and MECP issued License & Permit requirements. Land impact will be negligible and can be mitigated by appropriate construction practices. Alternative No. 5 and B(ii) requires consultation with the First Nations communities.

13.1.5 Technical Considerations

Capability, Reliability, Flexibility

Alternative No. 1 cannot meet future water works rated capacity requirements. Alternative No. 5 and B(ii) meets the capacity requirements and will utilize proven technology and provide redundancy as needed.

Implementation and Operability

Alternatives No. 5 and B(ii) will utilize the existing water treatment facility/infrastructure, treated water conveyance and water distribution system. Construction of new Well #1C will not lead to any significant changes in operability of the water works, since the treatment process and equipment will remain the same.

Construction Issues and Impacts

Construction related impacts for Alternative No. 5 and B(ii) is limited to on-site impacts only. These Alternatives will have minimal traffic impact in the town during construction of well and raw watermain.

Construction issues and impacts for Alternative No. 5 is typical and minimal. No specific mitigation measures are needed during evaluation of Alternative B(ii) Design Concept, development of Contract Documents and appropriate construction techniques.

Excess Soils Management will not be an issue as the excess soil quantities are anticipated to be minimal.

Approval, Implementation Requirements

To implement Alternative No. 1, a development freeze would be required.

MECP's License & Permit requirements for Alternative No. 5 and B(ii) would be limited to obtaining review and approval by MECP. PTTW from MECP will be required but is not anticipated to be an issue. Implementation impact for Alternatives No. 5 and B(ii) will be manageable.

Alternative No. 5 had additional property requirements, but it was manageable as the municipality procured the well site from Grey County.

Alternative No. 5 and B(ii) will allow approvals to remain completely under the control of the Municipality.

13.1.6 Economic/Financial Considerations

Lifecycle Costs

Alternative No. 1 would cost the least as there will be no capital expense. However, as demonstrated previously, it would not allow for planned community growth. As such, the cost of restricting community development cannot be justified.

Alternative No. 5 and B(ii) have costs associated with construction of production well, well testing, hydrogeological investigation and study report preparation, construction of associated raw watermain to the existing Water Treatment Plant building at Well #1B. The plant will have higher O & M cost due to additional cartridge filters, which require replacement when filters get plugged. New UV reactors will also be installed to treat water. The reactor utilizes UV lamps which get burnt and require replacement.

13.1.7 Climate Change

Climate change impact was considered for implementation of Alternative No. 5 and B(ii), in terms of mitigation measures as well as adaptation measures.

Regarding mitigation measures relating to greenhouse gas emission reduction and carbon sink impact, there is not much that the proponent can do, other than utilization of high efficiency pump motors. Other project activity relating to construction is installation of raw water main from well location to existing water treatment plant building, which is planned to be installed by open cut excavation in an already disturbed area. Disturbance to vegetation, greenhouse gas emission and carbon sink impact, if any, is attributed to Rockwood Terrace by Grey County.

Climate changes can affect recharging of water supply aquifer. There is not much that can be done under this project. However, aquifer analysis considered sustained pumping of aquifer over 20 years. Therefore, reduced recharge, if it occurs, is not anticipated to adversely impact water supply for the next 20 to 25 years. Accordingly, the project is deemed to have low vulnerability to climate change and no adaptation measures are necessary.

13.1.8 Provincial Policy Statement

Provincial policy statement impact on Alternative #5 and B(ii) was considered for various PPS components that are identified in **Table 12.2**. The following bullets indicate how the various components were addressed:

- Growth forecast was utilized as the project is for meeting future demands due to growth. New Well #1C will provide water supply beyond 20-year growth demand. Therefore, there is no adverse impact.
- Project is a timely construction of new well to ensure water works rated capacity is increased on time.
- Project follows principle of efficient utilization of current assets by treating the raw water from Well #1C in the existing Water Treatment Plant Building 1B by way of its expansion.
- Well is constructed in a place not prone to flooding hazard, and therefore, will always be accessible.
- Project will be able to allocate unused system capacity for efficient utilization of housing needs in future also.
- The well head protection area, which has been defined by way of modelling and vulnerability assessment in accordance with provincial guidelines and in consultation with Local Source Water Protection Committee, has changed. The WHPA is larger and affects new properties which have been notified by West Grey, in consultation with Carl Seider, Project Manager, Drinking Water Source Protection. Refer to **Section 10.2** for further details. Some impact is unavoidable but West Grey, with assistance from Drinking Water Source Protection office and Province (by way of approvals), can manage it.

13.1.9 Species At Risk (SAR)

MECP, in its correspondence with the proponent, directed to it to consider the potential impact on SAR, in accordance with MECP's document entitled "Client's Guide to Preliminary Screening for Species at Risk". In accordance with this document, the Natural Heritage Area website's NHIC map tool was searched, which returned with a long list of species which could be present in the search area of 1 km x 1 km. The project site of the new well, watermain and Well #1B pump house is only a very small part of the 1 km x 1 km area, which is also already disturbed by various developments already completed or in progress prior to the conclusion of this project. Beth Anne Currie, QEP was engaged to study the project area and determine the presence of any SAR, and steps necessary to mitigate the risk if SAR is found in the project area. Her Site Inspection Memo included overleaf noted two small falcons beyond the northern edge of the construction site and recommended geotextile fabric barrier to prevent accidental migration of fauna into the construction site.

In summary, SAR impact is minimal and manageable.

GSS ENGINEERING CONSULTANTS LTD

SITE INSPECTION MEMO

Project No.: 22-037

Project Name: DURHAM WEST GREY

Client Name: **Municipality of West Grey**

Date: March 12th, 2026 Time: 12:30 pm – 1:00 pm

Inspection No: 1

Location: South Street East, Durham, Ontario

Weather: -4 degrees C (feels like -11 degrees C); Winds: WNW 30-50 km/hour

Introduction:

Beth Anne Currie (QEP) met with Steve Kennedy, Construction Superintendent, Melloul Blamey Construction Inc, at the Durham West Grey, Rockwood Terrace construction site. The purpose of the visit was to complete field observations at the active construction site, including an assessment of the new well location, the purposed raw water route down South Street East, the existing Pump House 1B/Water Treatment Plant and to consider species at risk as per the NHIC data sheet.

Assessment:

The QEP spent over an hour examining the construction site, including the new well location, stormwater pond and purposed raw water route being careful of frozen ground, ice and debris.

Due to the highly disturbed and intense alteration of the landscape (the site has lost all original vegetation), coupled with the ongoing construction activity – including its proximity to an Open pit mine to the south, the environmental hazards preclude the opportunity for successful habitat zones for SAR. The construction site is characterized by significant earthmoving, vegetation removal, significant building construction, with the addition of gravel, fill and riprap to stabilize the building site, construct roads, and situate a stormwater pond.

Observations:

- Two small falcons (Merlin – *Falco columbarius)* were observed vocalizing from a berm of Scots pine trees located beyond the northern edge of the construction site; probably a mated pair
- No fern habitat – (Harts Tongue fern)
- No grassland bird habitat (Eastern Meadowlark, Bobolink, Wood Thrush, Eastern Wood Peewee
- No Turtle habitat for Midland Painted Turtle or Snapping Turtle
- No freshwater for Silver Shiner

Recommendations:

When the weather improves, strengthen the north-boundary fence posts and re-attach the geotextile fabric along the north perimeter construction site, to prevent accidental migration of fauna into the construction site.

Prepared By:

Beth Anne Currie M.A.Sc QEP

14 PRELIMINARY RECOMMENDED ALTERNATIVE

Based on the foregoing evaluation, the preliminary recommended alternative comprises of the following:

- Construction of New Well # 1C at new well site adjacent to Rockwood Terraces. This option was Alternative No. 5 in Phase 2 evaluation.
- Construction of raw water main from Well # 1C to Well # 1B pumphouse and water treatment building, and expansion of building to accommodate new UV reactors, cartridge filters and other ancillaries. This option was identified as Alternative B(ii) in Phase 3 evaluation.

15 RECOMMENDED MITIGATIVE MEASURES

It is recognized that construction and operation of the proposed well and the associated raw water main may have potential negative impacts on the environment and local residents. To understand the net effect of construction and operation, a cursory assessment of the impacts and the mitigation measure to mitigate or negate these potential negative impacts has been prepared and is discussed in the following section. It is important to note that for this Municipal Class EA, potential impacts related to the construction of the new well are limited and short term.

Based on the evaluation of potential effects, the new well construction project is not expected to create any significant environmental impacts. However, a number of mitigate measures are recommended to ensure that any disturbances are managed by the best available methods.

15.1 Construction Related Impacts

Impacts related to construction of the proposed well and associated raw watermain are short-term and minor. By incorporating proper construction techniques and controls, these impacts can be minimized. Anticipated construction related impacts are summarized in **Table 15.1** along with the associated mitigation measures. It is recommended that these mitigating measures be employed as required.

Table 15.1 - Mitigation Measures

22-037

Potential Impact	Mitigation Measures
NATURAL ENVIRONMENT	
Vegetation	• Removal of vegetation will not occur in the preferred design concept; • Restore any disturbed areas to natural or better conditions
Contamination of Soils Through Spills and Leaks	• This can be avoided by ensuring that fuel storage, refueling and maintenance of construction equipment are handled properly and not allowed in or adjacent to watercourses; and • Contingency plans must be prepared before projects begin for the control and cleanup of a spill if one should occur.
SAR	• Install geotextile fabric fence around new well construction site to prevent accidental migration of falcon's fauna into construction site.
SOCIO ECONOMIC ENVIRONMENT	
Noise, Vibration and Dust	• Construction operations will be restricted to the day shift except a 24 to 72 pumping test. The contractor will be required to adhere to local noise bylaws; • Dust control, if required, by spraying water
Traffic	• Develop traffic plan for deliveries; • Make contractor responsible to maintain road conditions.
Public Communications	• Develop communications plan so that the public is aware of activities and planned work.
Private Properties Affected by Well Head Protection Area (WHPA)	• Consultation by local Risk Management Official, Grey Sauble Conservation, and address any concerns that may originate

16 FIRST NATIONS CONSULTATION

The proponent undertook a consultation with the following:

- Saugeen Ojibway Nation (SON)
- Historic Saugeen Metis (HSM)
- Great Lakes Metis Council (GLMC)

Project information letters were provided to all the First Nations during Phase 2 and Phase 3 Consultation. HSM responded to the letter and indicated that they have no comments or concerns.

17 RECOMMENDATIONS

It is recommended that following the EA Approval process, the following are undertaken:

- An application for PTTW is submitted to MECP and the permit is obtained.
- Following issue of PTTW, owner should submit the application to the MECP Approval Branch for license and permits amendment.
- The raw watermain from new well CPW #1C should be constructed and connected to existing water treatment plant building at Well # 1B. The existing water treatment plant is to be utilized to provide necessary treatment.
- At the new well construction site, prior to commencement of any construction activity, install geotextile fabric barrier to prevent accidental mitigation of falcon's fauna into the construction site.

Respectfully prepared by:

GSS ENGINEERING CONSULTANTS LTD.

Rakesh Sharma, P Eng., Secretary-Treasurer
Designated Consulting Engineer

RS/mg

APPENDIX A

Notice of Commencement, Publications /Notices,

Comments from the Public

Municipality of West Grey

Notice of Study Commencement

Schedule C Class Environmental Assessment

Augmenting Capacity of Durham Water Works

The Municipality of West Grey recently completed an Engineering Study entitled, “Durham Water and Wastewater Treatment System Capacity Assessment", dated September 28, 2021, prepared by GSS Engineering Consultants Ltd. The study indicated that Durham Water Works in it’s existing condition is approaching the rated capacity of the water works permitted by Drinking Water Works License & Permit.

The municipality is obligated to search for method to increase the rated capacity of Water Works in order that Water Works can continue to supply potable water meeting Ontario Drinking Water Standards to water customers.

West Grey intends to investigate all available options including construction of a new water supply well and associated treatment and pumping system(s), as well as improvements to water distribution system and water reservoirs in a cost-effective and responsible manner.

Public input and comments are invited, for incorporation into the planning and design of this project and will be received until November 15, 2022. Subject to the identification of a preferred method to enhance treatment capacity, comments received and receipt of necessary approvals, Municipality of West Grey intends to proceed with planning, design and construction of this project, following completion of EA process.

This Notice issued November 3, 2022.

Brent Glasier, Director of
Infrastructure & Public Works
Municipality of West Grey
Tel: 519-369-2200
bglasier@westgrey.com

Rakesh Sharma, P. Eng.
GSS Engineering Consultants Ltd.
Tel: 519-372-4828
rakeshsharma@gssengineering.ca

MUNICIPALITY OF West Grey
nestled in nature

NOTICE OF PUBLIC MEETING

Durham Water Works, West Grey

Municipal Class Environmental Assessment

THE STUDY

The Municipality of West Grey is completing a Municipal Class Environmental Assessment (Class EA) that will address need for construction of new water supply Well #1C.

THE PROCESS

The study is being conducted in accordance with the requirements as described in the Municipal Engineers Association's "Municipal Class Environmental Assessment" document. The Class EA process includes public and review agency consultation, an evaluation of alternatives and design concepts, an assessment of the impacts of the proposed improvements, and identification of measures to mitigate any adverse impacts.

PUBLIC MEETING

As part of the study, a public meeting is being held to provide background information on the study and various alternatives considered, including a comparative analysis of those alternatives. Representatives from the Municipality and its consultants, GSS Engineering Consultants Ltd will be present at the meeting to answer questions and discuss the next steps in the study. The meeting is scheduled for:

Date:	**Wednesday, August 6, 2025**
Time:	**7:00 p.m.**
Location:	**West Grey Council Chambers** **402813 Grey Road 4** **Durham, ON N0G 1R0**

You are encouraged to attend the meeting and provide your comments so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended solution as well as mitigation measures. Comments and information regarding this project will be collected in accordance with the municipal *Freedom of Information and Protections of Privacy Act* for the purpose of meeting environmental assessment requirements.

Upon completion of the study, an Environmental Study Report (ESR) documenting the planning process followed and will be made available for public review for a period of 30 calendar days. The public will be notified of the date, time and location of the filing of the ESR at the appropriate time through similar newspaper notices and website posting.

Geoff Aitken, Dir. of Infrastructure & Public Works
Municipality of West Grey
402813 Grey Road 4
Durham, Ontario N0G 1R0
publicworks@westgrey.com

Rakesh Sharma P. Eng.
GSS Engineering Consultants Ltd.
Suite 230, 945 3rd Ave. E.
Owen Sound, ON N4K 2K8
rakeshsharma@gssengineering.ca

Classifieds

To place an ad: | **Email** classifieds@postmedia.com | **Phone** 1-877-750-5054

Legals, Tenders and Notices

MUNICIPALITY OF West Grey

Notice of Public Meeting
Durham Water Works, West Grey
Municipal Class Environmental Assessment

The Study

The Municipality of West Grey is completing a Municipal Class Environmental Assessment (Class EA) that will address need for construction of new water supply Well #1C.

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The study is being conducted in accordance with the requirements as described in the Municipal Engineers Association's "Municipal Class Environmental Assessment" document. The Class EA process includes public and review agency consultation, an evaluation of alternatives and design concepts, an assessment of the impacts of the proposed improvements, and identification of measures to mitigate any adverse impacts.

Public Information Session

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You are encouraged to attend the meeting and provide your comments so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended solution as well as mitigation measures. Comments and information regarding this project will be collected in accordance with the municipal *Freedom of Information and Protections of Privacy Act* for the purpose of meeting environmental assessment requirements.

Upon completion of the study, an Environmental Study Report (ESR) documenting the planning process followed and will be made available for public review for a period of 30 calendar days. The public will be notified of the date, time and location of the filing of the ESR at the appropriate time through similar newspaper notices and website posting.

Geoff Aitken, Dir. of Infrastructure and Public Works
Municipality of West Grey
402813 Grey Road 4
Durham, Ontario N0G 1R0
publicworks@westgrey.com

Rakesh Sharma P. Eng.
GSS Engineering Consultants Ltd.
Suite 230, 945 3rd Ave. E.
Owen Sound, ON N4K 2K8
rakeshsharma@gssengineering.ca

Town of SOUTH BRUCE PENINSULA

SALE OF LAND BY PUBLIC TENDER
THE CORPORATION OF THE TOWN OF SOUTH BRUCE PENINSULA

Take Notice that tenders are invited for the purchase of the lands described below and will be received until 3:00 p.m. local time on August 21, 2025, at the South Bruce Peninsula Municipal Office, 315 George Street, Wiarton Ontario.
Description of Lands:
1. Roll No. 41 02 540 019 19300 0000; 36 JACK ISLAND, SOUTH BRUCE PENINSULA; PIN 33344-0295 (LT); File No. 23-01; **Minimum Tender Amount: $ 7,700.96**
2. Roll No. 41 02 590 001 14800 0000; PINS 33344-0162 (LT) and 33344-0164 (LT) and 33344-0166 (LT); File No. 23-02; **Minimum Tender Amount: $ 8,606.83**
Except as follows, the municipality makes no representation regarding the title to, availability of road access, or any other matters relating to the lands to be sold. Responsibility for ascertaining these matters rests with the potential purchasers. This sale is governed by the Municipal Act, 2001 and the Municipal Tax Sales Rules made under that Act. A full copy of the tax sale advertisement and further information about this matter is available online at www.OntarioTaxSales.ca or www.southbrucepeninsula.com or you may contact Tracey Neifer, Director of Financial Services/Treasurer, The Corporation of the Town of South Bruce Peninsula, 315 George Street, P.O. Box 310, Wiarton ON N0H 2T0, Phone: 519-534-1400 Ext. 107, Email: tracey.neifer @southbrucepeninsula.com

Obituaries

To place an Obituary or In Memoriam: **Self Serve:** remembering.ca
Email: announcements@postmedia.com **Telephone:** 1-877-750-5054

Obituaries

COACH, Mary Anne

Passed away peacefully at Brightshores Health System - Owen Sound on Sunday, July 27, 2025. Born in Wiarton on August 22, 1949, Mary Anne Coach (nee Friest) of Owen Sound, was in her 76th year. Beloved wife for 57 years of Ron Coach of Owen Sound. Loving mother of Della (Robb) Williamson of Stratford, Ted (Laurie) Coach of Chesley and Richard (Teesa) Coach of Cambridge. Cherished grandma of David, Ana (Brody), Gabriella, Rachel (Marcus), Aarron, Marc, Evan (Sara), Sasha and Curtis. Proud great-grandma of 10 great-grandchildren. Dear sister of Karen, Steve (Deb), Betty (Dave), Connie, Debbie (Roger), Susan (Steve) and Leonard (Carla), and sister-in-law of Ray Coach (Marilyn). Mary Anne will also be missed by her many nieces, nephews and friends from near and far. Predeceased by her parents Norman and Olive Friest, and by her sisters Norma and Donna. Mary Anne spent her early days in Wiarton. She was a long-time fan of Elvis Presley, as witnessed by the many shrines around her home. A favourite hobby was her many yard ornaments, that she would lovingly paint each year before putting them back on display outside and around her property. She was also a lover of Christmas, and ensured that everyone received their yearly gifts, usually including some form of chocolate and of course a pair of socks, along with personalized gifts for all to match each of our likes. A child at heart, she loved receiving her yearly gifts of annoying dancing, singing, moving or talking stuffed animals or other Santa Claus inspired items, and the more annoying they were, the wider she would smile. Of course, no family dinner or get together was complete without her famous cheesecake, that she would always claim she wasn't going to make. For the most part Mary Anne lived a simple life, with her daily trips to G.T. for her newspaper and some form of candy bar or other similar junk food. She also greatly enjoyed her weekly "seniors tour" with Ron, driving to random places which usually included a stop for breakfast or ice cream. She loved her regular trips to the USA to pick up those items "you can't get here". Mary Anne and Ron spent many years travelling to various car shows, making many friends along the way. A memorial service to celebrate Mary Anne's life will be held at Brian E. Wood Funeral Home, 250 14th St. W., Owen Sound, 519-376-7492, on Saturday, August 2, 2025, at 11:00 a.m., with visitation one hour prior. For those unable to attend in person, the service will be livestreamed. In lieu of flowers, memorial donations to Canadian Cancer Society would be appreciated. Online condolences can be sent to Mary Anne's family by visiting her memorial at www.woodfuneralhome.ca.

Obituaries

VAMPLEW, Jean Elizabeth

Jean Elizabeth Vamplew passed away at PeopleCare Meaford on Tuesday, July 29, 2025, at the age of 93. Jean was married to the love of her life, the late Eldon Vamplew, for 67 years. Loving mother of Linda Grant (Don), Terry Vamplew (Noreen) and Sharon Menicanin (Paul). Cherished grandmother of Shannon (Tim), Melanie (Nate), Jodi (Vic), Stephanie (Tim), Emily (Jeff), Josiah (Erica) and Sadie. Great-grandmother to Ben, Charlotte, Sam, Wes, Imogen, Georgia, Ella, Jagger and Frankie. Born on August 30, 1931, she was the daughter of the late Russell and Jessie Adams (nee Doran) and sister of the late Walter Adams (Blanche), the late Ivan Adams and the late Earl Adams (June). Sister-in-law to Dorothy Ormsby (Ivan). She will be remembered fondly by many nieces and nephews. Jean grew up on a farm near Woodford and settled on the Collingwood/St. Vincent Townline where she lived until 1973 with husband Eldon. They then moved to the Clarksburg's 10th line where they lived until 1988. Then they moved into Thornbury. Jean was a stay-at-home Mom and worked seasonally picking apples and packing apples at Binkley's until her retirement. Jean was an accomplished cook, and was never happier than when her family was gathered around the dinner table. Care packages of leftovers were often sent home afterwards. She enjoyed being part of many community groups - Maple Leaf Sewing Circle, Tenth Line Ladies, Bella Goodfellow Guild and St. Paul's Presbyterian Church. She enjoyed hiking, skiing, board games, knitting, sewing, crocheting, gardening and baking. Jean's vibrant spirit, generous heart, care and compassion towards others will be deeply missed and fondly remembered by all who knew her. The family would like to thank the staff at People Care in Meaford for their attentive and professional care during her residence there. Dining room companions Marilyn, Audrey and Dorothy brought special joy, as well as previous next door neighbour Doreen. A funeral service will be conducted at the St. Paul's Presbyterian Church in Thornbury on Saturday, August 2, 2025, at 11 o'clock with a visitation the hour prior and a reception following. A private service of committal and interment will take place at Thornbury-Clarksburg Union Cemetery. As your expression of sympathy, donations to the Meaford Hospital Foundation or a charity of your choice would be appreciated and may be made through the Ferguson Funeral Home, 48 Boucher St. E., Meaford, ON N4L 1B9 to whom arrangements have been entrusted. www.fergusonfuneralhomes.ca

O'BRIEN, Richard

Richard "Dick" Murrough O'Brien passed away peacefully after a courageously fought battle with pancreatic cancer on Saturday, July 26, 2025. Born in Wolfeville, Nova Scotia, Dick was the loving husband of Gale; dad who stepped up to Ryan (Jordan) Miltenburg and Aaron O'Brien. Proud grandpa of Jackson Miltenburg. Dick will be deeply missed by his siblings Peggy (Peter Lockie), Ardagh (Franz Futterknecht), Katherine (Wayne Papoff), Susan (Dennis Weekes), and Michael; As well as his brother-in-law Gary (Mary Ellen) Golbeck. Cherished uncle of 17 nieces and nephews. Also remembered by Leslie Tindall. Predeceased by his parents, Murrough and Lesley O'Brien and his in-laws, Floyd and Caroline Golbeck.

Throughout his life Dick made a positive impact on many, beginning as a scout leader in London, Ontario and a Big Brother in Etobicoke. Dick was voted outstanding young person for the Borough of Etobicoke in 1978. First elected in 1973 Dick served his Etobicoke community for over 27 years; 15 years as an Alderman for the Borough of Etobicoke, 10 years as a Metro Toronto Councillor and 3 years as a Councillor in the newly amalgamated City of Toronto. Throughout his political career Dick served on many committees, both as a member and chair, including as the mayor's representative for the City of Toronto Y2K steering committee. He joined the board of the Toronto and Region Conservation Authority in 1984 and was elected by a group of his peers as chair in 1996.

Known in his community as "Uncle Richard", his greatest passion was spending time in the maple bush at his farm in Priceville and producing Uncle Richard's maple syrup.

Cremation has taken place. As per Dick's wishes there will be no funeral service. A Celebration of Life will be held at the Royal Canadian Legion Branch 308, 271 Bruce Street North, Durham, Ontario on Sunday, September 14 from 1 – 4 p.m., with memories being shared at 2 p.m.

At Dick's request, expressions of sympathy may be made in the form of donations to the Dick & Gale O'Brien endowment fund, c/o Brightshores Health System Owen Sound Foundation; London Health Sciences Centre Foundation; the Saugeen Valley Children's Safety Village or a charity of your choice.

The family would like to express their heartfelt gratitude to the many doctors for their care and compassion during Dick's difficult journey - Dr. Rai; Dr. Leslie; Dr. Glick; Dr. Batra; Dr. Young; Dr. Sandhu; and palliative care Drs. Batten and Barfoot. Not to be forgotten are the very caring nurses and staff of the oncology department and 6th floor of Brightshores Health System, Owen Sound who treated Dick with dignity and respect until the very end.
Arrangements entrusted to McCulloch-Watson Funeral Home, Durham.

Obituaries

ABELL, Ruthann Sandra (Nee Richards)

At home, with family by her side on Sunday, July 27, 2025, in her 83rd year. Sandra, beloved wife of Robert William. Loving Mom of Marion and her husband Kerry Bristo, and the late Robert "Bob" Barnes and his wife Rina. Proud Grandma of Lee-Anne (Jonathan), Michael, Kiel, Brandon, Sarina (Justin), Katrina (Jason), and Jonathan. Loving G.G. of Kristofer, Sydney, Mickaela, Turner, Bensen, and Weston. Dear sister of Brad Richards and his wife Joanna, Steven Richards and his late wife Bev.

Friends will be received at the Brown Family Funeral Home, 1178 4th Ave West, Owen Sound on Thursday, July 31, 2025, from 7 p.m. - 9 p.m. A funeral service will be held in the chapel on Friday, August 1, 2025, at 11 a.m. Interment Mount Pleasant Cemetery.

Memorial donations to the Owen Sound Animal Shelter would be appreciated by the family.

www.tannahill.com

BROWN FAMILY FUNERAL HOMES

In Memoriams

In Loving Memory Of Stephen Brent Cruickshank

Jan 26, 1959 - August 3, 2022

There is not a day that goes by that you are not forgotten. Our hearts are broken but the memories are not. We miss you so much and will never forget your love and kindness. The best husband, father, papa. Love Florence, Christopher, Johnathan, Katherine, Rory and Lennox.

Obituaries

To place an Obituary or In Memoriam: **Self Serve:** remembering.ca **Email:** announcements@postmedia.com **Telephone:** 1-877-750-5054

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WORKING.COM THE POST

MUNICIPALITY OF ARRAN-ELDERSLIE

DZ Heavy Equipment Operator – Full Time

The Municipality of Arran-Elderslie is currently accepting applications from qualified individuals for the full-time position of **DZ Heavy Equipment Operator.**

Reporting to the Public Works Manager, the successful candidate will operate and maintain heavy equipment and assist in various public works operations across the Municipality's three Public Works facilities.

This position offers a comprehensive benefits package and enrollment in the OMERS pension plan.

The posting will remain open until the position is filled. Applications will be reviewed on an ongoing basis, and interviews may be scheduled throughout the recruitment period. Early submission is encouraged.

Salary - $29.62 (2025)

Please check the **Careers Page** on our website for further details: www.arran-elderslie.ca.

Classifieds

To place an ad: | **Email** classifieds@postmedia.com | **Phone** 1-877-750-5054

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FIREWOOD FOR SALE

Hardwood/bodywood. Cut and split 12-13" lengths - Screened for less dirt. Delivery.

Call Larry Ruetz after 6 pm. 519-881-4584

Firewood For Sale

Slab Wood and Body Wood at Folmer and Phillppi Sawmill chepstow delivered in 10 and12 face cord loads.

Call Mike 519-366-2326

PROMOTE YOUR BUSINESS

Legals, Tenders and Notices

NOTICE TO CREDITORS AND OTHERS

All persons having claims against the Estate of ROBERT HOWARD LAMONT, late, of the Town of Hanover, in the County of Grey, who died on or about the 18th day of November, 2024, must be filed with the undersigned solicitor on or before the 14th day of August, 2025, after which date the Estate will be distributed having regard only to the claims of which the Estate Trustees then shall have notice.

DATED at Hanover, Ontario this 17th day of July, 2025.

Dean R. Leifso
Leifso & Leifso Professional Corporation
Barristers and Solicitors
320 – 10th Street
Hanover, Ontario N4N 1P3
Solicitor for the Estate Trustees

Legals, Tenders and Notices

MUNICIPALITY OF West Grey

Notice of Public Meeting
Durham Water Works, West Grey
Municipal Class Environmental Assessment

The Study

The Municipality of West Grey is completing a Municipal Class Environmental Assessment (Class EA) that will address need for construction of new water supply Well #1C.

The Process

The study is being conducted in accordance with the requirements as described in the Municipal Engineers Association's "Municipal Class Environmental Assessment" document. The Class EA process includes public and review agency consultation, an evaluation of alternatives and design concepts, an assessment of the impacts of the proposed improvements, and identification of measures to mitigate any adverse impacts.

Public Information Session

As part of the study, a public information session is being held to provide background information on the study and various alternatives considered, including a comparative analysis of those alternatives. Representatives from the Municipality and its consultants, GSS Engineering Consultants Ltd will be present at the meeting to answer questions and discuss the next steps in the study. The meeting is scheduled for:

Date: Wednesday, August 6, 2025
Time: 7:00 p.m.
Location: West Grey Council Chambers, 402813 Grey Road 4, Durham, ON N0G 1R0

You are encouraged to attend the meeting and provide your comments so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended solution as well as mitigation measures. Comments and information regarding this project will be collected in accordance with the municipal *Freedom of Information and Protections of Privacy Act* for the purpose of meeting environmental assessment requirements.

Upon completion of the study, an Environmental Study Report (ESR) documenting the planning process followed and will be made available for public review for a period of 30 calendar days. The public will be notified of the date, time and location of the filing of the ESR at the appropriate time through similar newspaper notices and website posting.

Geoff Aitken, Dir. of Infrastructure and Public Works
Municipality of West Grey
402813 Grey Road 4
Durham, Ontario N0G 1R0
publicworks@westgrey.com

Rakesh Sharma P. Eng.
GSS Engineering Consultants Ltd.
Suite 230, 945 3rd Ave. E.
Owen Sound, ON N4K 2K8
rakeshsharma@gssengineering.ca

Public Notices

Maplewood Cemetery
Join us Sunday August 3
From 1 p.m. - 2:30 p.m.
For our Come & Go Decoration Day

Make your business stand out!
Find your audience in the Business & Professional Directory

WORSHIP SERVICES DIRECTORY

Place your service notice today!
Contact announcements@postmedia.com

Lutheran

Elmwood-Brant Lutheran Parish

All are welcome in our church family

St. Peter's Lutheran Church
260 Sideroad 30, Brant Township
Sunday Service at 9:30 a.m.

St. John's Lutheran Church
12 Dirstein St. S, Elmwood
Sunday Service at 11 a.m.

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Other

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SEVENTH-DAY ADVENTIST CHURCH

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226-930-1202
hanover23.adventistchurchconnect.org
hanoveradventist@bmts.com

Public Meeting for Class Environmental Assessment Study for
the Construction of New Well #1C

Wednesday, August 6, 2025 – West Grey Council Chambers

Sign In Sheet

Name	Address	Signature
Cheryl Nelsm	617 Saddler St E Durham	
CONNIE KARLSSON	214 LAMBTON ST., S DURHAM	
DON TREMBLAY	550 George Street	
DOUG TOWNSEND	232842 GREY ROAD 2	
Geoffrey Shea	258 George St E	
Geoff Aitken	Director, PW & I	

Public Meeting for Class Environmental Assessment Study for the Construction of New Well #1C Municipality of West Grey

Comment Sheet

Public Meeting – Wednesday, August 6, 2025

Background

West Grey is undertaking a Municipal Class Environmental Assessment (EA) that will address the need for construction of a new Well #1C to augment water supply capacity and address other items identified in Problem Definition.

Question and Comments

Question 1: Do you agree that this project is needed? Please indicate why or why not?

YES. WE ARE A GROWING TOWN & WE NEED TO BE PREPARED FOR THAT GROWTH.

Question 2: Construction of Well #1C has been identified as Preferred Alternative. Do you agree with this solution? Provide comments, if any.

YES.

Question 3: Is there any other information or comment that you would like to provide or in your opinion, should be considered in the EA process?

EXCELLENT & INFORMATIVE PRESENTATION!

THANK YOU!

Question 4: You are: (check all those that apply):

Your Name: CONNIE KARLSSON

✓ Resident of West Grey

_____ Member of an Interest group (Please specify)_____.

_____ Agency Representative (Please specify)_____.

_____ Other (Please specify) _____.

Thank you for participating in this study.

Please return this completed Comment Sheet to Staff at Registration Table or send it to the Municipal Office to attention of Mr. Geoff Aitken by August 20, 2025.

A copy of the power point presentation will be made available on municipal website: www.arran-elderslie.com.

MUNICIPALITY OF West Grey nestled in nature

Mr. Geoff Aitken
Municipality of West Grey
402813 Grey County Road 4
Durham, ON N0G 1R0

GSS ENGINEERING CONSULTANTS LTD

Mr. Rakesh Sharma
GSS Engineering Consultants Ltd.
Suite 230, 945 3rd Ave E
Owen Sound, ON N4K 2K8

APPENDIX B

Review Agency Contact List and

Project Information Letter Issued

GSS ENGINEERING CONSULTANTS LTD

Similar Letter Issued to all Agencies on the Contact List

October 18, 2024

22-037

The County of Bruce
30 Park Street
Walkerton, ON N0G 2V0

Attention: **Department of Planning and Development**

RE: **Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey**

Dear Sir or Madam,

We are writing this letter to inform you that the Municipality of West Grey initiated a Class Environmental Assessment for the construction of a new municipal water supply well for Durham Water Works.

Durham water works draws water from three water supply wells (Well #1B, Well #2A and Well 2B). The location of wells is indicated in the attached **Figure #2**.

The Municipality of West Grey is currently undertaking a Schedule C EA for upgrading of Durham Water Works which in its existing condition is approaching the rated capacity of the treatment plants permitted by the drinking water works license and permit. Furthermore, the existing water supply well(s) yield is on the decline, thereby threatening availability of water supplies in sufficient quantity. The municipality is obligated to search for methods to increase water supply capability and rated capacity of water works in order that the water works can continue to supply potable water meeting Ontario Drinking Water Standards (ODWS) to water consumers.

As part of the EA process the following alternatives were explored:

1. Do nothing.
2. Limit Growth.
3. Reduce loss of water from the distribution system and improve water conservation
4. Increased water supply from existing well(s).
5. Construct new ground water supply source(s) and add additional treatment capacity, as needed.
6. Construct new surface water supply source intake and add additional treatment capacity, as needed.
7. Obtain additional water supply from neighbouring municipality or water works to supplement shortfall in existing water works capacity.

Alternative 5 is the preferred alternative as determined from public consultation. This alternative is to construct a new ground water supply source well.

In 2022 a test well (TW #1) was drilled as shown in the attached figure. The step testing of this test well indicated that aquifer has potential to construct a municipal well. Therefore, construction of a new well (Well #3) at the location as shown in **Figure #**2 is the preferred alternative.

It may be noted that per investigations completed to date, the new well shall potentially impact existing municipal Well 1B, which shall be taken into consideration to determine safe yield from the new well.

By way of this letter, on behalf of the Municipality, we request you to inform us if your office has any concerns or requirements that must be addressed through the EA process for construction of a new water supply well for the Durham water works.

Yours sincerely,

GSS Engineering Consultants Ltd.

Rakesh Sharma, P. Eng., Secretary-Treasurer
Designated Consulting Engineer

RS/nc

cc Geoff Aitken, Director of Infrastructure and Public Works

Municipal Well Location Plan
New Water Supply Well
EA for Durham Water Works
Municipality of West Grey

GSS ENGINEERING CONSULTANTS LTD

Design:	RS
Drawn:	TDL
APPROVED:	RS
Date:	SEPT. 2024
Scale:	1:4000
FILE No.	22-037
FIG. No.	Fig. 2

Friday, October 4, 2024 9:15:45 AM

G:\GSS Common\2022\22-037 – EA for Durham Water Works – Mun. of West Grey\Drawings\22-037.dwg Oct 04, 2024 – 9:15am

Agency Contact List – Phase 2

22-037

1	Ministry of the Environment, Conservation and Parks Owen Sound District Office 101 17th St. East Owen Sound, ON N4K 0A5 Tel: 519-371-2901 Fax: 519-371-2905	John Ritchie Director john.s.ritchie@ontario.ca
2	Ministry of Natural Resources and Forestry, Owen Sound District Office 1450 7th Ave East Owen Sound, ON N4K 2Z1 Tel: 519-376-3860	John Almond District Manager john.almond@ontario.ca
3	Ministry of Transportation, Owen Sound District Office 1450 7th Ave East Owen Sound, ON N4K 2Z1 Tel: 519-376-7350	Fred Hemstock Contract Services Administrator fred.hemstock@ontario.ca
4	Ministry of Citzenship and Multiculturalism, Citizenship Inclusion and Heritage Division, 5th Floor, 400 University Ave. Toronto, ON M7A 2R9 Tel: 613-242-3743	Joseph Harvey Heritage Planner Joseph.Harvey@ontario.ca
5	Ministry of Citizenship and Multiculturalism, Heritage Planning Branch 5th Floor, 400 University Ave. Toronto, ON M7A 2R9 Tel: 416-660-1027	Karla Barboza Team Lead Karla.Barboza@ontario.ca
6	Ministry of Agriculture, Food and Agribusiness Environmental Management Branch 3rd Floor, 1 Stone Road West Guelph, ON N1G 4Y2 Tel: 1-888-466-2372 ext 63325	Cale Selby Director cale.selby@ontario.ca

7	Fisheries and Oceans Canada, District Office 520 Exmouth St. Sarnia, ON N7T 8B1 Tel: 519-383-1809	To Whom it May Concern info@dfo-mpo.gc.ca
8	The County of Bruce 30 Park Street Walkerton, ON N0G 2V0 Tel: 519-881-1291	Department of Planning and Development bcplwa@brucecounty.on.ca
9	Niagara Escarpment Commission, Owen Sound Office 1450 7th Ave. Owen Sound, ON N4K 2Z1 Tel: 519-371-1001	Laurie Golden Municipal Representative – Bruce County nec@ontario.ca
10	Saugeen Valley Conservation Authority 1078 Bruce Rd. #12, Formosa, ON N0G 1W0 Tel: 519-362-1255	Erik Downing Manager, Environmental Planning and Regulations e.downing@svca.on.ca
11	Grey Sauble Conservation Authority 237897 Inglis Falls Rd., Owen Sound, ON N4K 5N6 Tel: 519-376-3076	MacLean Plewes Manager of Environmental Planning m.plewes@greysauble.on.ca
12	Saugeen Ojibway Nation, Environment Office 10129 Highway 6 Georgian Bluffs, ON N0H 2T0 Tel: 519-534-5507	Charlene Leonard Resources & Infrastructure Manager Manager.ri@saugeenojibwaynation.ca
13	Historic Saugeen Métis 204 High St. Southampton, ON N0H 2L0 Tel: 519-483-4000	To Whom it May Concern saugeenmetis@bmts.com

14	Great Lakes Métis Council Tel: 519-370-0435	Susan Schank, Administrative greatlakesmetis@gmail.com
15	Grey Bruce Public Health 101 17th St. East Owen Sound, ON N4K 0A5 Tel: 519-376-9420	To Whom it May Concern publichealth@publichealthgreybruce.on.ca
16	Ministry of Municipal Affairs and Housing 2nd Floor, 659 Exeter Rd. London, ON N6E 1L3 Tel: 519-873-4020	Dianne Gould-Brown, Municipal Advisor dianne.gould-brown@ontario.ca Jane Parnell, Municipal Advisor jane.parnell@ontario.ca Reed Waldick, Municipal Advisor reed.waldick@ontario.ca Sebastien Haley, Municipal Advisor sebastien.haley@ontario.ca
17	Drinking Water Source Protection 237897 Inglis Falls Road, RR4 Owen Sound, Ontario, N4K 5N6 Ph. # 519- 470-3000 ext. 201 Toll Free: 1-877-470-3001	Carl Seider, Project Manager c.seider@waterprotection.ca

GSS ENGINEERING CONSULTANTS LTD

Similar Letter Issued to All Agencies on the Contact List

August 11, 2025

22-037

The County of Bruce
30 Park Street
Walkerton, ON N0G 2V0

Attention: **Department of Planning and Development**

RE: **Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey**

Dear Sir/Madam,

We are writing this letter to provide you with an update on Municipality of West Grey's initiated Class C Environmental Assessment for the construction of a new municipal water supply well for Durham Water Works. We sent a letter earlier in October 2024 when this EA process commenced.

Durham Water Works draws water from three wells (Well #1B, Well #2A and Well 2B). The location of the wells is indicated in the attached **Figure #2**.

Durham Water Works in its existing condition is approaching the rated capacity of the treatment plants permitted by the drinking water works license and permit. Furthermore, the existing water supply well(s) yield is on the decline, thereby threatening availability of water supplies in sufficient quantity.

As part of the EA process the following alternatives were explored in Phase 2:

1. Do nothing.
2. Limit Growth.
3. Reduce loss of water from the distribution system and improve water conservation
4. Increased water supply from existing well(s).
5. Construct new ground water supply source(s) and add additional treatment capacity, as needed.
6. Construct new surface water supply source intake and add additional treatment capacity, as needed.

7. Obtain additional water supply from neighbouring municipality or water works to supplement shortfall in existing water works capacity.

Alternative 5 was identified as the preliminary preferred alternative as determined from public consultation, which was to construct a new ground water supply source well.

In October and November 2024, drilling and construction took place to construct a new well at Rockwood Terrace's site in Durham. A 300 mm dia. (Well #1C) was completed in bedrock at 71 m depth which is similar to other municipal wells. Downhole testing indicated virtually all flow to the well occurred below a depth of 45 m. More then 80% inflow came from three (3) major fractures at depths of 59 m, 63 m and 68 m. 72 hour pumping test was completed in December 2024, and water level was measured in neighbouring wells. No complaints of interference with private wells were received. Monitoring showed strong hydraulic connection between Well # 1C and existing municipal Well # 2 & 2A and subdued connection with Well # 1B. Testing indicated Well 1C will sustainably yield water supply at the test rate of 2160 m^3/day.

A public meeting was undertaken on Aug. 6, 2025 at the municipal office, where a Power Point presentation was made outlining the EA process, discussion of Problem Definition, review of alternative solutions, selection of Preliminary Preferred Solution (Well # 1C), water treatment alternatives for Well # 1C water supply and presentation of Preliminary Recommended Alternative. This will involve:

- Adoption of Well # 1C as municipal well after obtaining PTTW, licence & permit from MECP.
- Construction of raw water main from Well # 1C to Well # 1B Pump house
- Possible chlorination facility at Well # 1C site
- Upgrading of Well # 1B Pump house building to accommodate additional cartridge filters, UV reactors and associated civil, electrical, and mechanical upgrades.

West Grey will also continue to implement the program to identify water main loss locations and reduce water losses.

By way of this letter, on behalf of the Municipality, we request you to inform us if your office has any concerns or requirements that must be addressed through the EA process for adoption of a new water supply Well # 1C and water treatment at Well # 1B Pump house of the Durham Water

Works. A copy of the Power Point presentation is available at Municipality of West Grey's Well's site by clicking this link below:

https://www.westgrey.com/media/klgbn1l5/public-meeting-presentation.pdf

Yours sincerely,

GSS Engineering Consultants Ltd.

Rakesh Sharma, P. Eng., Secretary-Treasurer
Designated Consulting Engineer

RS/nc

cc Geoff Aitken, Director of Infrastructure and Public Works

Municipal Well Location Plan
New Water Supply Well #1C
EA for Durham Water Works
Municipality of West Grey

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Design:	RS
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Agency Contact List – Phase 3

22-037

1	Ministry of the Environment, Conservation and Parks Owen Sound District Office 101 17th St. East Owen Sound, ON N4K 0A5 Tel: 519-371-2901 Fax: 519-371-2905	John Ritchie Director john.s.ritchie@ontario.ca
2	Ministry of Natural Resources and Forestry, Owen Sound District Office 1450 7th Ave East Owen Sound, ON N4K 2Z1 Tel: 519-376-3860	John Almond District Manager john.almond@ontario.ca
3	Ministry of Transportation, Owen Sound District Office 1450 7th Ave East Owen Sound, ON N4K 2Z1 Tel: 519-376-7350	Fred Hemstock Contract Services Administrator fred.hemstock@ontario.ca
4	Ministry of Citzenship and Multiculturalism, Citizenship Inclusion and Heritage Division, 5th Floor, 400 University Ave. Toronto, ON M7A 2R9 Tel: 613-242-3743	Joseph Harvey Heritage Planner Joseph.Harvey@ontario.ca
5	Ministry of Citizenship and Multiculturalism, Heritage Planning Branch 5th Floor, 400 University Ave. Toronto, ON M7A 2R9 Tel: 416-660-1027	Karla Barboza Team Lead Karla.Barboza@ontario.ca
6	Ministry of Agriculture, Food and Agribusiness Environmental Management Branch 3rd Floor, 1 Stone Road West Guelph, ON N1G 4Y2 Tel: 1-888-466-2372 ext 63325	Cale Selby Director cale.selby@ontario.ca

7	Fisheries and Oceans Canada, District Office 520 Exmouth St. Sarnia, ON N7T 8B1 Tel: 519-383-1809	To Whom it May Concern info@dfo-mpo.gc.ca
8	The County of Bruce 30 Park Street Walkerton, ON N0G 2V0 Tel: 519-881-1291	Department of Planning and Development bcplwa@brucecounty.on.ca
9	Niagara Escarpment Commission, Owen Sound Office 1450 7th Ave. Owen Sound, ON N4K 2Z1 Tel: 519-371-1001	Laurie Golden Municipal Representative – Bruce County nec@ontario.ca
10	Saugeen Valley Conservation Authority 1078 Bruce Rd. #12, Formosa, ON N0G 1W0 Tel: 519-362-1255	Erik Downing Manager, Environmental Planning and Regulations e.downing@svca.on.ca
11	Grey Sauble Conservation Authority 237897 Inglis Falls Rd., Owen Sound, ON N4K 5N6 Tel: 519-376-3076	MacLean Plewes Manager of Environmental Planning m.plewes@greysauble.on.ca
12	Saugeen Ojibway Nation, Environment Office 10129 Highway 6 Georgian Bluffs, ON N0H 2T0 Tel: 519-534-5507	Charlene Leonard Resources & Infrastructure Manager Manager.ri@saugeenojibwaynation.ca
13	Historic Saugeen Métis 204 High St. Southampton, ON N0H 2L0 Tel: 519-483-4000	To Whom it May Concern saugeenmetis@bmts.com

14	Great Lakes Métis Council Tel: 519-370-0435	Susan Schank, Administrative greatlakesmetis@gmail.com
15	Grey Bruce Public Health 101 17th St. East Owen Sound, ON N4K 0A5 Tel: 519-376-9420	To Whom it May Concern publichealth@publichealthgreybruce.on.ca
16	Ministry of Municipal Affairs and Housing 2nd Floor, 659 Exeter Rd. London, ON N6E 1L3 Tel: 519-873-4020	Dianne Gould-Brown, Municipal Advisor dianne.gould-brown@ontario.ca Jane Parnell, Municipal Advisor jane.parnell@ontario.ca Reed Waldick, Municipal Advisor reed.waldick@ontario.ca Sebastien Haley, Municipal Advisor sebastien.haley@ontario.ca
17	Drinking Water Source Protection 237897 Inglis Falls Road, RR4 Owen Sound, Ontario, N4K 5N6 Ph. # 519- 470-3000 ext. 201 Toll Free: 1-877-470-3001	Carl Seider, Project Manager c.seider@waterprotection.ca

APPENDIX C

Responses from Agencies

Rakesh Sharma

From: Carl Seider <c.seider@greysauble.on.ca>
Sent: August 13, 2025 11:45 AM
To: Grace DaCosta
Cc: Rakesh Sharma; Geoff Aitken; Carl Seider
Subject: Re: Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey

Hi Grace,

Thanks for providing an update on the Class EA for the proposed new well #1C in Durham.

As part of the Source Protection Plan amendment process to include a new drinking water well, here are the key technical requirements that need to be provided prior to seeking a Drinking Water Works Permit for the new well.

- New Wellhead Protection Area (WHPA) delineation based on the Director's Technical Rules
- Vulnerability scores are also required for new areas in accordance with Technical Rule 83
- Vulnerability assessment of activities/ potential threats in the new WHPA delineation. Our office can assist the vulnerability assessment based on the analysis of the impact of policies and to determine who has to be notified when consulting on the proposed source protection plan amendments. This vulnerability assessment should be included as part of the Class EA process to assess the impact of the Clean Water Act on landowners when identifying the preferred location for the new system.

If you have any questions or concerns with these requirements, please let us know.

Also, can you please send me the link to the recent public presentation, as the link provided didn't seem to work.

Regards,

Carl Seider
Risk Management Official

519.376.3076

www.greysauble.on.ca

Grey Sauble
CONSERVATION

We've Temporarily Moved!
While our office gets renovated, find us at 901 3rd Avenue East, Suite 215, Owen Sound (above the Post Office).

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From: Grace DaCosta <gracedacosta@gssengineering.ca>
Sent: Tuesday, August 12, 2025 4:00 PM
To: Carl Seider <c.seider@greysauble.on.ca>
Cc: Rakesh Sharma <rakeshsharma@gssengineering.ca>
Subject: Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey

Dear Mr. Seider,

Please see attached our letter to update you on Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey. Should you have any questions or concerns, please feel free to contact me or Rakesh Sharma.

Sincerely,

Grace daCosta
As per Rakesh Sharma

Grace daCosta| Adminstrative Assistant
GSS Engineering Consultants Ltd.
Suite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8
Tel: 519-372-4828 Ext. 101| gracedacosta@gssengineering.ca

Ministry of the Environment, Conservation and Parks

Environmental Assessment Branch

1st Floor
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des évaluations environnementales

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Téléc. : 416 314-8452

December 9, 2025

Karl Schipprack
Muncipality of West Grey
kschipprack@west grey.com

BY EMAIL ONLY

Re: **Construction of New Water Supply Well and Upgrading of Durham Water Works**
Municipality of West Grey
Municipal Class Environmental Assessment, Schedule C
Notice of Commencement

Dear Karl,

The Ministry of the Environment, Conservation and Parks (MECP) has received the Notice of Commencement for the above noted project. The Proponent is following the Schedule C process with respect to project, to which the Municipal Class Environmental Assessment (Class EA) applies.

The enclosed "Areas of Interest" document provides guidance regarding the ministry's interests with respect to the Class EA process. Please address all areas of interest in the EA documentation at an appropriate level for the EA study.

Based on the ministry's review of the Notice of Commencement, the Municipality of West Grey is required to consult with the following Indigenous communities, who have been identified as being potentially interested in or affected by the project:

- Saugeen First Nation and the Chippewas of Nawash Unceded First Nation - these communities work together on consultation issues and are known collectively as the Saugeen Ojibway Nation. They have requested notices be sent to the Saugeen Ojibway Nation Environment Office with a copy to the Chief and Council of Saugeen First Nation and Chippewas of Nawash Unceded First Nation.

The identified Indigenous communities should be contacted directly throughout the planning process. These communities may be interested in the proposed undertakings generally or may have Constitutionally protected Aboriginal or Treaty rights that may be impacted by stormwater management undertakings.

Steps that the proponent may need to take in relation to Indigenous consultation for the proposed undertakings are outlined in the Class EA in section A.3 (Consultation) generally and more specifically in A.3.7.

Proponents are required to contact the Director of Environmental Assessment Branch (EABDirector@ontario.ca) if information is shared by an Indigenous community about potential adverse impacts to Aboriginal or Treaty rights or sites of cultural significance, if consultation with any Indigenous communities or other stakeholder has reached an impasse or if a Section 16 Order request is expected. The MECP will then assess whether and what additional steps should be taken, including what role you will be asked to play. While there is currently no across-the-board obligation to provide capacity funding to Indigenous communities being consulted; it is important that communities can effectively engage in the process, and this may require capacity funding. The MECP strongly encourages proponents to consider reasonable requests for such funding.

You may send a copy of the draft report to the ministry's Southwest EA Notification email address (eanotification.swregion@ontario.ca), allowing minimum 30 days for review. Please ensure the Notice of Completion is sent to eanotification.swregion@ontario.ca when it's available.

Should you or any members of your project team have any questions regarding the material above, please contact me at monika.macki@ontario.ca.

Sincerely,

Monika Macki

Monika Macki
Regional Environmental Planner – Southwest Region
Project Review Unit, Environmental Assessment Branch

Enclosed: Areas of Interest

Attached: Client's Guide to Preliminary Screening for Species at Risk

AREAS OF INTEREST

It is suggested that you check off each section after you have considered / addressed it.

Planning and Policy

- Applicable plans and policies should be identified in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans.
    - The **Provincial Planning Statement (PPS) (2024)** contains policies that protect Ontario's natural heritage and water resources. Applicable policies in the PPS 2024 should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies. **The PPS 2024 replaces the Provincial Policy Statement (PPS) (2020) and A Place to Grow: Growth Plan for the Greater Golden Horseshoe (APTG) (2019)**.
    - Projects located in MECP Central or Eastern Region may be subject to the **Oak Ridges Moraine Conservation Plan (2017)** or the **Lake Simcoe Protection Plan (2014)**.
    - Projects located in MECP Central, Southwest or West Central Region may be subject to the **Niagara Escarpment Plan (2017)**.
    - Projects located in MECP Central, Eastern, Southwest or West Central Region may be subject to the **Greenbelt Plan (2017)**. Due to Amendment 4 to the Greenbelt Plan, areas within the Greenbelt are still subject to applicable policies in the PPS **(2020)** and APTG **(2019)**.
    - Projects located in MECP Northern Region may be subject to the **Growth Plan for Northern Ontario (2011)**.

- In addition to the provincial planning and policy level, the report should also discuss the planning context at the municipal and federal levels, as appropriate.

Source Water Protection

The *Clean Water Act*, 2006 (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water Intake Protection Zones (IPZs). Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-based modelling areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas.

Projects that are subject to the Environmental Assessment Act that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in

designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e. systems that are not municipal residential systems). MEA Class EA projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

- In October 2015, the MEA Parent Class EA document was amended to include reference to the Clean Water Act (Section A.2.10.6) and indicates that proponents undertaking a Municipal Class EA project must identify early in their process whether a project is or could potentially be occurring with a vulnerable area. **Given this requirement, please include a section in the report on source water protection.**

    - The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed. Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area.

    - If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc.

- While most source protection plans focused on including policies for significant drinking water threats in the WHPAs and IPZs it should be noted that even though source protection plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk to impacts and within these areas, activities may impact the quality of sources of drinking water for systems other than municipal residential systems.

- In order to determine if this project is occurring within a vulnerable area, proponents can use Source Protection Information Atlas, which is an online mapping tool available to the public. Note that various layers (including WHPAs, WHPA-Q1 and WHPA-Q2, IPZs, HVAs, SGRAs, EBAs, ICAs) can be turned on through the “Map Legend” bar on the left. The

mapping tool will also provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area.

- For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. **Please consult with the local source protection authority to discuss potential impacts on drinking water. Please document the results of that consultation within the report and include all communication documents/correspondence.**

More Information

For more information on the *Clean Water Act*, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to Conservation Ontario's website where you will also find links to the local source protection plan/assessment report.

A list of the prescribed drinking water threats can be found in section 1.1 of Ontario Regulation 287/07 made under the *Clean Water Act*. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional "local" threat activities, as approved by the MECP.

Climate Change

The document "Considering Climate Change in the Environmental Assessment Process" (Guide) is part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in EA. Proponents should review this Guide in detail.

- **The MECP expects proponents of Class EA projects to:**

1. Consider during the assessment of alternative solutions and alternative designs, the following:
    a. the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and
    b. resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation).
2. Include a discrete section in the report detailing how climate change was considered in the EA.

How climate change is considered can be qualitative or quantitative in nature and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered.

- The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "Community Emissions Reduction Planning: A Guide for Municipalities" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.

Air Quality, Dust and Noise

- If there are sensitive receptors in the surrounding area of this project, a quantitative air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern. **Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised.**

- If a quantitative Air Quality Impact Assessment is not required for the project, the MECP expects that the report contain a qualitative assessment which includes:

    - A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions;
    - A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors;
    - A discussion of local air quality impacts that could arise from this project during both construction and operation; and
    - A discussion of potential mitigation measures.

- As a common practice, "air quality" should be used an evaluation criterion for all road projects.

- Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities.

- The MECP recommends that non-chloride dust-suppressants be applied. For a comprehensive list of fugitive dust prevention and control measures that could be applied, refer to *Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from*

Construction and Demolition Activities report prepared for Environment Canada. March 2005.

- The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

Ecosystem Protection and Restoration

- Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.

- Natural heritage and hydrologic features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area:
  - Key Natural Heritage Features: Habitat of endangered species and threatened species, fish habitat, wetlands, areas of natural and scientific interest (ANSIs), significant valleylands, significant woodlands; significant wildlife habitat (including habitat of special concern species); sand barrens, savannahs, and tallgrass prairies; and alvars.
  - Key Hydrologic Features: Permanent streams, intermittent streams, inland lakes and their littoral zones, seepage areas and springs, and wetlands.
  - Other natural heritage features and areas such as: vegetation communities, rare species of flora or fauna, Environmentally Sensitive Areas, Environmentally Sensitive Policy Areas, federal and provincial parks and conservation reserves, Greenland systems etc.

We recommend consulting with the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, for projects located in Central Region you may consider the provisions of the Rouge Park Management Plan if applicable.

Species at Risk

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. Information, standards, guidelines, reference materials and technical resources to assist you are found at https://www.ontario.ca/page/species-risk.

- The Client's Guide to Preliminary Screening for Species at Risk (Draft May 2019) has been attached to the covering email for your reference and use. Please review this document for next steps.

- For any questions related to subsequent permit requirements, please contact SAROntario@ontario.ca.

Surface Water

- The report must include enough information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, pollution) are mitigated as part of the proposed undertaking.

- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry's Stormwater Management Planning and Design Manual (2003) should be referenced in the report and utilized when designing stormwater control methods. **A Stormwater Management Plan should be prepared as part of the Class EA process** that includes:

    - Strategies to address potential water quantity and erosion impacts related to stormwater draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained
    - Watershed information, drainage conditions, and other relevant background information
    - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works
    - Information on maintenance and monitoring commitments.

- Ontario Regulation 60/08 under the *Ontario Water Resources Act* (OWRA) applies to the Lake Simcoe Basin, which encompasses Lake Simcoe and the lands from which surface water drains into Lake Simcoe. If a proposed sewage treatment plant is listed in Table 1 of the regulation, the report should describe how the proposed project and its mitigation measures are consistent with the requirements of this regulation and the OWRA.

- Any potential approval requirements for surface water taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the Water Taking User Guide for EASR for more information. Additionally, an

Environmental Compliance Approval under the OWRA is required for municipal stormwater management works.

Groundwater

- The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the report.

- If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA.

- Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.

- Any potential approval requirements for groundwater taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the Water Taking User Guide for EASR for more information.

- Consultation with the railroad authorities is necessary wherever there is a plan to use construction dewatering in the vicinity of railroad lines or where the zone of influence of the construction dewatering potentially intercepts railroad lines.

Excess Materials Management

- In December 2019, MECP released a new regulation under the Environmental Protection Act, titled "On-Site and Excess Soil Management" (O. Reg. 406/19) to support improved management of excess construction soil. This regulation is a key step to support proper management of excess soils, ensuring valuable resources don't go to waste and to provide clear rules on managing and reusing excess soil. New risk-based standards referenced by

this regulation help to facilitate local beneficial reuse which in turn will reduce greenhouse gas emissions from soil transportation, while ensuring strong protection of human health and the environment. The new regulation is being phased in over time, with the first phase in effect on January 1, 2021. For more information, please visit https://www.ontario.ca/page/handling-excess-soil.

- The report should reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the MECP's current guidance document titled "Management of Excess Soil – A Guide for Best Management Practices" (2014).

- All waste generated during construction must be disposed of in accordance with ministry requirements.

Contaminated Sites

- Any current or historical waste disposal sites should be identified in the report. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the EPA may be required for land uses on former disposal sites. We recommend referring to the MECP's D-4 guideline for land use considerations near landfills and dumps.
    - Resources available may include regional/local municipal official plans and data; provincial data on large landfill sites and small landfill sites; Environmental Compliance Approval information for waste disposal sites on Access Environment.

- Other known contaminated sites (local, provincial, federal) in the study area should also be identified in the report (Note – information on federal contaminated sites is found on the Government of Canada's website).

- The location of any underground storage tanks should be investigated in the report. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The ministry's Spills Action Centre must be contacted in such an event.

- Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with *Part XV.1 of the Environmental Protection Act* (EPA) and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.

Servicing, Utilities and Facilities

- The report should identify any above or underground utilities in the study area such as transmission lines, telephone/internet, oil/gas etc. The owners should be consulted to discuss impacts to this infrastructure, including potential spills.

- The report should identify any servicing infrastructure in the study area such as wastewater, water, stormwater that may potentially be impacted by the project.

- Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have an Environmental Compliance Approval (ECA) before it can operate lawfully. Please consult with MECP's Environmental Permissions Branch to determine whether a new or amended ECA will be required for any proposed infrastructure.

- We recommend referring to the ministry's environmental land use planning guides to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.

Mitigation and Monitoring

- Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the report and regularly monitored during the construction stage of the project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly.

- Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas.

- The proponent's construction and post-construction monitoring plans must be documented in the report, as outlined in Section A.2.5 and A.4.1 of the MEA Class EA parent document.

Consultation

- The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout

the planning process. The report should also include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments (as directed by the Class EA to include full documentation).

- Please include the full stakeholder distribution/consultation list in the documentation.

Class EA Process

- If this project is a Master Plan: there are several different approaches that can be used to conduct a Master Plan, examples of which are outlined in Appendix 4 of the Class EA. **The Master Plan should clearly indicate the selected approach for conducting the plan**, by identifying whether the levels of assessment, consultation and documentation are sufficient to fulfill the requirements for Schedule B or C projects. Please note that any Schedule B or C projects identified in the plan would be subject to Section 16 Order Requests under the Environmental Assessment Act, although the plan itself would not be. **Please include a description of the approach being undertaken (use Appendix 4 as a reference).**

- If this project is a Master Plan: Any identified projects should also include information on the MCEA schedule associated with the project.

- The report should provide clear and complete documentation of the planning process in order to allow for transparency in decision-making.

- The Class EA requires the consideration of the effects of each alternative on all aspects of the environment (including planning, natural, social, cultural, economic, technical). The report should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments, cultural heritage assessments) such that all potential impacts can be identified, and appropriate mitigation measures can be developed. Any supporting studies conducted during the Class EA process should be referenced and included as part of the report.

- Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the preferred alternative, including but not limited to, MECP's PTTW, EASR Registrations and ECAs, conservation authority permits, species at risk permits, MTO permits and approvals under the *Impact Assessment Act*, 2019.

- Ministry guidelines and other information related to the issues above are available at http://www.ontario.ca/environment-and-energy/environment-and-energy. We encourage you to review all the available guides and to reference any relevant information in the report.

Notice of Completion

Once the EA Report is finalized, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the proponent. The Notice of Completion must be sent to the appropriate MECP Regional Office email address.

The public can request a higher level of assessment on a project if they are concerned about potential adverse impacts to constitutionally protected Aboriginal and treaty rights. In addition, the Minister may issue an order on his or her own initiative within a specified time period. The Director (of the Environmental Assessment Branch) will issue a Notice of Proposed Order to the proponent if the Minister is considering an order for the project within 30 days after the conclusion of the comment period on the Notice of Completion. At this time, the Director may request additional information from the proponent. Once the requested information has been received, the Minister will have 30 days within which to make a decision or impose conditions on your project.

Therefore, the proponent cannot proceed with the project until at least 30 days after the end of the comment period provided for in the Notice of Completion. Further, the proponent may not proceed after this time if:

- a Section 16 Order request has been submitted to the ministry regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, or
- the Director has issued a Notice of Proposed order regarding the project.

Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding concerns regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, Section 16 Order requests on those matters should be addressed in writing to:

Minister of the Environment, Conservation and Parks

777 Bay Street, 5th Floor
Toronto ON M7A 2J3
minister.mecp@ontario.ca

and

Director, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
135 St. Clair Ave. W, 1st Floor
Toronto ON, M4V 1P5
EABDirector@ontario.ca

Rakesh Sharma

From: Rakesh Sharma
Sent: November 1, 2024 9:50 AM
To: Nancy Cluthe
Subject: FW: SVCA comments-Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

File fro EA correspondence.

Rakesh Sharma, MASc Eng, P.Eng. Consulting Engineer,
Secretary –Treasurer
GSS Engineering Consultants Ltd.
Suite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8
Tel: 519-372-4828 Ext. 105| rakeshsharma@gssengineering.ca

From: Mike Oberle <m.oberle@SVCA.ON.CA>
Sent: October 30, 2024 11:37 PM
To: Rakesh Sharma <rakeshsharma@gssengineering.ca>
Cc: gaitken@westgrey.com
Subject: Re: SVCA comments-Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

Good day Mr. Sharma,

This email is further to the email of below including your letter dated October 18, 2024 regarding the above refenced file.

The location of Preferred Alternative #5 is not within the SVCA's Approximate Regulated Area, therefore SVCA staff will defer to municipal and engineering staff for their expertise for the project to meet applicable requirements.

The SVCA looks forward to working together with our municipal partners, where and/or if required, as this proposal progresses.

I trust that the above is helpful at this time. Any questions, please do not hesitate to ask.

Kind regards,

Mike

Michael Oberle

Environmental Planning Coordinator

Cell: 519-373-4175

1078 Bruce Road 12, PO Box 150, Formosa, ON N0G 1W0

.n.oberle@svca.on.ca

www.saugeenconservation.ca

From: Nancy Cluthe <nancycluthe@gssengineering.ca>
Sent: October 21, 2024 8:56 AM
To: Erik Downing <E.Downing@SVCA.ON.CA>
Subject: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

[CAUTION]: This email originated from outside of the organization. Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Good Morning,

Please find attached our letter regarding a Class EA Schedule C for a new water supply well for Durham Water Works in the Municipality of West Grey.

Thank you,

Rakesh Sharma, MASc Eng, P.Eng., | Secretary –Treasurer

GSS Engineering Consultants Ltd.

Suite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8

Tel: 519-372-4828 Ext. 105| rakeshsharma@gssengineering.ca

Rakesh Sharma

From: MacLean Plewes <m.plewes@greysauble.on.ca>
Sent: October 21, 2024 4:04 PM
To: Nancy Cluthe
Subject: RE: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

Good afternoon,

I've forwarded this onto our Source Water Protection Department for their review and comment. Please note, the contact is Carl Seider (c.seider@greysauble.on.ca)

Thank you,

Mac Plewes
Manager of Environmental Planning

519.376.3076
237897 Inglis Falls Road
Owen Sound, ON N4K 5N6
www.greysauble.on.ca

Grey Sauble
CONSERVATION

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For after-hours non-911 emergencies please call 226-256-8702. Please do not use this number for planning related inquiries. For information regarding properties, visit our website at www.greysauble.on.ca.

From: Nancy Cluthe <nancycluthe@gssengineering.ca>
Sent: Monday, October 21, 2024 8:56 AM
To: MacLean Plewes <m.plewes@greysauble.on.ca>
Subject: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

Good Morning,

Please find attached our letter regarding a Class EA Schedule C for a new water supply well for Durham Water Works in the Municipality of West Grey.

Thank you,

GSS ENGINEERING CONSULTANTS LTD

Rakesh Sharma, MASc Eng, P.Eng., | Secretary –Treasurer
GSS Engineering Consultants Ltd.
Suite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8
Tel: 519-372-4828 Ext. 105| rakeshsharma@gssengineering.ca

Rakesh Sharma

From: Smythe, Liam (He/Him) (MCM) <Liam.Smythe@ontario.ca>
Sent: November 7, 2024 1:10 PM
To: Rakesh Sharma
Cc: Nancy Cluthe; Barboza, Karla (She/Her) (MCM)
Subject: MCM Response - Schedule C EA for Durham Water Works, Municipality of West Grey (22-037) [MCM File # 0022689]
Attachments: 2024-11-07_DurhamWaterWorks_MCM_InitialLetter.pdf

Good afternoon,

Thank you for providing the Ministry of Citizenship and Multiculturalism (MCM) with your letter regarding the Schedule C Class EA for the Durham Water Works in the Municipality of West Grey.

MCM's initial letter on this project is attached. Please do not hesitate to contact us if you have any questions or require additional information.

Best regards,

Liam Smythe, CAHP (he/him)
Heritage Planner | Citizenship, Inclusion and Heritage Division
Ministry of Citizenship and Multiculturalism | Ontario Public Service
416-301-4797 | Liam.Smythe@ontario.ca

Ontario

Taking pride in strengthening Ontario, its places and its people

---

From: Nancy Cluthe <nancycluthe@gssengineering.ca>
Sent: Monday, October 21, 2024 8:52 AM
To: Barboza, Karla (She/Her) (MCM) <Karla.Barboza@ontario.ca>
Subject: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

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

Good Morning,

Please find attached our letter regarding a Class EA Schedule C for a new water supply well for Durham Water Works in the Municipality of West Grey.

Thank you,

GSS ENGINEERING CONSULTANTS LTD

Rakesh Sharma, MASc Eng, P.Eng., | Secretary –Treasurer
GSS Engineering Consultants Ltd.

Ministry of Citizenship and Multiculturalism

Heritage Planning Unit
Heritage Operations Branch
Citizenship, Inclusion and Heritage Division
5th Flr, 400 University Ave
Toronto, ON M5G 1S7
Tel.: 416-301-4797

Ministère des Affaires civiques et du Multiculturalisme

Planification relative au patrimoine
Opérations relatives au patrimoine
Division des affaires civiques, de l'inclusion et du patrimoine
5e étage, 400, av. University
Toronto, ON M5G 1S7
Tél.: 416-301-4797

Ontario

November 7, 2024

EMAIL ONLY

Rakesh Sharma
Designated Consulting Engineer
GSS Engineering Consultants Ltd.
945 3rd Avenue E # 230
Owen Sound, ON N4K 2K8
rakeshsharma@gssengineering.ca

MCM File	:	**0022689**
Proponent	:	**Municipality of West Grey**
Subject	:	**Municipal Class Environmental Assessment – Schedule C – Notice of Commencement**
Project	:	**New Water Supply Well for Durham Water Works**
Location	:	**Municipality of West Grey, Grey County, Ontario**

Dear Rakesh Sharma:

Thank you for providing the Ministry of Citizenship and Multiculturalism (MCM) with the Notice of Commencement for the above-referenced project.

MCM's interest in this project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- archaeological resources, including land and marine;
- built heritage resources, including bridges and monuments; and
- cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on known (previously recognized) and potential cultural heritage resources.

Project Summary
The Municipality of West Grey has initiated a Schedule C Municipal Class Environmental Assessment for the construction of a new municipal water supply well for Durham Water Works. The Durham water works draws water from three water supply wells (Well #1B, Well #2A and Well 2B). In its existing condition, the Durham Water Works is approaching the rated capacity of the treatment plants permitted by the drinking water works license and permit. Furthermore, the

existing water supply well(s) yield is on the decline, thereby threatening availability of water supplies in sufficient quantity. The municipality is obligated to search for methods to increase water supply capability and rated capacity of water works in order that the water works can continue to supply potable water meeting Ontario Drinking Water Standards (ODWS) to water consumers. As part of the EA process, seven alternatives were considered. Alternative #5, construction of a new municipal well (Well #3) east of Kincardine Street South, was selected as the preferred alternative.

Identifying Cultural Heritage Resources
While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation.

Archaeological Resources
This EA project may impact archaeological resources and should be screened using the Ministry's *Criteria for Evaluating Archaeological Potential* and *Criteria for Evaluating Marine Archaeological Potential* (if shoreline or in-water works are proposed) to determine if an archaeological assessment is needed.

If the EA project area exhibits archaeological potential, then an archaeological assessment (AA) shall be undertaken by an archaeologist licenced under the *Ontario Heritage Act (OHA)*, who is responsible for submitting the report directly to MCM for review.

Approval authorities and/or proponents should wait to receive the MCM's written confirmation that the archaeological assessment report(s) has been entered into the Register before issuing a decision or proceeding with any ground disturbing activities. The letter will also indicate either that there are no further concerns for impacts to archaeological resources or articulate next steps to mitigate those concerns.

Proponents must follow the recommendations of the archaeological assessment report(s). MCM recommends that further stages of archaeological assessment (if recommended) be undertaken as early as possible during detailed design and prior to any ground disturbing activities.

Built Heritage Resources and Cultural Heritage Landscapes
The Ministry's *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* should be completed to help determine whether this EA project may impact known or potential built heritage resources and/or cultural heritage landscapes.

If there is potential for built heritage resources and/or cultural heritage landscapes within the project area, a Cultural Heritage Evaluation Report (CHER) should be undertaken by a qualified person to determine the cultural heritage value or interest of the project area. If the project area is determined to be of cultural heritage value or interest and alterations or development is proposed, MCM recommends that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, be completed to assess potential project impacts. Please send the HIA to MCM, and heritage planning staff at the Municipality of West Grey for review and comment and make it available to local organizations or individuals who have expressed interest in review.

Community input should be sought to identify locally recognized and potential cultural heritage resources. Sources include, but are not limited to, municipal heritage committees, historical societies and other local heritage organizations.

Cultural heritage resources are often of critical importance to Indigenous communities. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage

resources, and we suggest that any engagement with Indigenous communities includes a discussion about known or potential cultural heritage resources that are of value to them.

Environmental Assessment Reporting
All technical cultural heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MCM whether any technical cultural heritage studies will be completed for this EA project and provide them to MCM before issuing a Notice of Completion or commencing any work on the site. If screening has identified no known or potential cultural heritage resources, or no impacts to these resources, please include the completed checklists and supporting documentation in the EA report or file.

Please note that the responsibility for administration of the *Ontario Heritage Act* and matters related to cultural heritage have been transferred from the Ministry of Tourism, Culture and Sport (MTCS) to the Ministry of Citizenship and Multiculturalism (MCM). Individual staff roles and contact information remain unchanged. Please continue to send any notices, report and/or documentation **via email only** to both Karla Barboza and myself.

- Karla Barboza, Team Lead - Heritage | Heritage Planning Unit (Citizenship and Multiculturalism) | 416-660-1027 | karla.barboza@ontario.ca
- Liam Smythe, Heritage Planner | Heritage Planning Unit (Citizenship and Multiculturalism) | 416-301-4797 | Liam.Smythe@ontario.ca

Thank you for consulting MCM on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, please do not hesitate to contact me.

Sincerely,

Liam Smythe
Heritage Planner
Liam.Smythe@ontario.ca

Copied to: Nancy Cluthe, GSS Engineering Consultants Ltd.
Karla Barboza, Team Lead, Heritage Planning Unit, MCM

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. The Ministry of Citizenship and Multiculturalism (MCM) makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MCM be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48(1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out an archaeological assessment, in compliance with Section 48(1) of the *Ontario Heritage Act*.

The *Funeral, Burial and Cremation Services Act, 2002, S.O. 2002, c.33* requires that any person discovering human remains must cease all activities immediately and notify the police or coroner. If the coroner does not suspect foul play in the disposition of the remains, in accordance with *Ontario Regulation 30/11* the coroner shall notify the Registrar, Ontario Ministry of Public and Business Service Delivery, which administers provisions of that Act related to burial sites. In situations where human remains are associated with archaeological resources, the Ministry of Citizenship and Multiculturalism should also be notified (at archaeology@ontario.ca) to ensure that the archaeological site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

Rakesh Sharma

From: Rakesh Sharma
Sent: October 28, 2024 10:01 AM
To: Nancy Cluthe
Subject: FW: Notice of Commencement for Water Supply Well Class EA for Durham Water Works

file

Rakesh Sharma, MASc Eng, P.Eng. Consulting Engineer,
Secretary –Treasurer
GSS Engineering Consultants Ltd.
Suite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8
Tel: 519-372-4828 Ext. 105| rakeshsharma@gssengineering.ca

From: Coordinator LRC HSM <hsmlrcc@bmts.com>
Sent: October 28, 2024 9:59 AM
To: Rakesh Sharma <rakeshsharma@gssengineering.ca>
Subject: Notice of Commencement for Water Supply Well Class EA for Durham Water Works

Municipality of West Grey

RE: Water Supply Well Class EA - Durham Water Works

The Historic Saugeen Métis (HSM) Lands, Waters and Consultation Department has reviewed the notice of commencement for the Durham Water Works New Water Supply Well Class EA. HSM has no concerns or comments at this time, but wishes to remain informed and would greatly appreciate updates as the project progresses.

Thank you for the opportunity to engage and review this project.

Regards,

Georgia Lumley

Coordinator, Lands, Waters & Consultation
Historic Saugeen Métis
204 High Street
Southampton, ON
saugeenmetis.com
519.483.4000

HISTORIC
SAUGEEN
MÉTIS

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Rakesh Sharma

From: Info / Info (DFO/MPO) <DFO.Info-Info.MPO@dfo-mpo.gc.ca>
Sent: October 21, 2024 8:57 AM
To: Nancy Cluthe
Subject: Automatic reply: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

Thank you for your interest in Fisheries and Oceans Canada. We will contact you if a reply is required.

Messages are reviewed and answered during regular business hours (Eastern time zone) only.

Note : This message was generated by an automatic response system. Please do not reply.

****

Nous vous remercions de votre intérêt pour Pêches et Océans Canada. Nous vous ferons parvenir une réponse au besoin.

Nous prenons connaissance des messages et leur donnons suite pendant les heures de travail normales (fuseau horaire de l'Est) seulement.

Remarque : Ce message vous est livré par un système de réponse automatique. Veuillez ne pas y répondre.

Rakesh Sharma

From: Ritchie, John (He/Him) (MECP) <John.S.Ritchie@ontario.ca>
Sent: October 18, 2024 5:21 PM
To: Nancy Cluthe
Subject: RE: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

Thank you for your message. Please note that the 'Director' for the purposes of Class EA activities is the director of the ministry's Environmental Assessment and Approvals Branch.

Contact information (excerpt from the Preparing environmental assessments | ontario.ca guide) is below:

Step 3: submit an environmental assessment

Proponent must:

- submit an Environmental Assessment summary form
- submit the environmental assessment document to the Director, Environmental Assessment Branch for review and decision by the Ministry of the Environment, Conservation and Parks

Director, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5
enviropermissions@ontario.ca

From: Nancy Cluthe <nancycluthe@gssengineering.ca>
Sent: Friday, October 18, 2024 4:34 PM
To: Ritchie, John (He/Him) (MECP) <John.S.Ritchie@ontario.ca>
Subject: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

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

Good Afternoon,

Please find attached our letter regarding a Class EA Schedule C for a new water supply well for Durham Water Works in the Municipality of West Grey.

Thank you,

GSS ENGINEERING CONSULTANTS LTD

Rakesh Sharma

From: Haley, Sebastien (MMAH) <Sebastien.Haley@ontario.ca>
Sent: October 21, 2024 9:07 AM
To: Nancy Cluthe
Subject: Automatic reply: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

Thank you for your email, please be advised that I am out of the office and will return on October 22nd. If you require immediate assitance, please contact Jane Parnell at Jane.Parnell@ontario.ca.

Thank you.

Rakesh Sharma

From: Niagara Escarpment Commission (MNR) <nec@ontario.ca>
Sent: October 21, 2024 8:59 AM
To: Nancy Cluthe
Subject: Automatic reply: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

Thank you for your inquiry, it has been passed on to planning staff for response. If additional information is required, NEC staff will follow up within two business days. You will receive a response within 5 business days for simple inquiries and 15 business days for more complex inquiries. If we are unable to answer your question within that timeframe, due to complexity or other factors, we will send you a revised estimated response date within 15 business days.

Please be aware that NEC staff provide services in person, via telephone, or via email. If you are seeking an in-person meeting, we ask that you make an appointment, so that we can ensure the right staff member is available and can dedicate time to assisting you. You may request an appointment with staff online at escarpment.org/appointments.

Additionally, the NEC has recently updated its website and we encourage you to visit www.escarpment.org in case the information you are seeking can be found there.

Rakesh Sharma

From: Selby, Cale (OMAFA) <Cale.Selby@ontario.ca>
Sent: October 21, 2024 8:53 AM
To: Nancy Cluthe
Subject: Automatic reply: Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

I am out of the office, returning October 21, 2024. If you require immediate attention please contact Manuela Louisy at Manuela.Louisy@ontario.ca.

Rakesh Sharma

From: Carl Seider <c.seider@greysauble.on.ca>
Sent: August 13, 2025 11:45 AM
To: Grace DaCosta
Cc: Rakesh Sharma; Geoff Aitken; Carl Seider
Subject: Re: Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey

Hi Grace,

Thanks for providing an update on the Class EA for the proposed new well #1C in Durham.

As part of the Source Protection Plan amendment process to include a new drinking water well, here are the key technical requirements that need to be provided prior to seeking a Drinking Water Works Permit for the new well.

- New Wellhead Protection Area (WHPA) delineation based on the Director's Technical Rules
- Vulnerability scores are also required for new areas in accordance with Technical Rule 83
- Vulnerability assessment of activities/ potential threats in the new WHPA delineation. Our office can assist the vulnerability assessment based on the analysis of the impact of policies and to determine who has to be notified when consulting on the proposed source protection plan amendments. This vulnerability assessment should be included as part of the Class EA process to assess the impact of the Clean Water Act on landowners when identifying the preferred location for the new system.

If you have any questions or concerns with these requirements, please let us know.

Also, can you please send me the link to the recent public presentation, as the link provided didn't seem to work.

Regards,

Carl Seider
Risk Management Official

519.376.3076

www.greysauble.on.ca

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While our office gets renovated, find us at 901 3rd Avenue East, Suite 215, Owen Sound (above the Post Office).

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From: Grace DaCosta <gracedacosta@gssengineering.ca>
Sent: Tuesday, August 12, 2025 4:00 PM
To: Carl Seider <c.seider@greysauble.on.ca>
Cc: Rakesh Sharma <rakeshsharma@gssengineering.ca>
Subject: Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey

Dear Mr. Seider,

Please see attached our letter to update you on Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey. Should you have any questions or concerns, please feel free to contact me or Rakesh Sharma.

Sincerely,

Grace daCosta
As per Rakesh Sharma

Grace daCosta| Adminstrative Assistant
GSS Engineering Consultants Ltd.
Suite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8
Tel: 519-372-4828 Ext. 101| gracedacosta@gssengineering.ca

Rakesh Sharma

From: Macki, Monika (MECP) <Monika.MacKi@ontario.ca>
Sent: December 9, 2025 11:02 AM
To: Marie Graham; kschipprack@westgrey.com
Cc: Rakesh Sharma
Subject: RE: Upgrading of Durham Water Works, Municipality of West Grey (22-037)
Attachments: MECP Acknowledgement of NOC - MCEA- West Grey Consruction of New Water Supply Well and Upgrading of Durham Water Works.pdf; Supporting Attachment - Species at Risk Proponents Guide to Preliminary Screening (May 2019).pdf

Hello,

Please find the attached letter of acknowledgement and supporting attachment in response to the Notice of Commencement of the New Water Supply Well and Upgrading of Durham Works project being undertaken by the Municipality of West Grey, in accordance with the Municipal Class Environmental Assessment (Schedule C).

Thanks,

Monika Macki
Environmental Resource Planner/Environmental Assessment Coordinator
Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
monika.macki@ontario.ca

From: Marie Graham <mariegraham@gssengineering.ca>
Sent: Wednesday, November 5, 2025 11:25 AM
To: EA Notices to SWRegion (MECP) <eanotification.swregion@ontario.ca>
Cc: kschipprack@westgrey.com; Rakesh Sharma <rakeshsharma@gssengineering.ca>
Subject: Upgrading of Durham Water Works, Municipality of West Grey (22-037)

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

Good morning,

As per the requirements of the EA process, I am enclosing the follow documents:

- Public Notice for study commencement along with Table 1 and 2
- Completed streamlined EA Project Information Form

If you have any questions or require further information, please contact me.

Thank you,
Rakesh Sharma

Sent on behalf of Rakesh Sharma

Rakesh Sharma, MASc Eng, P.Eng., | Secretary –Treasurer

GSS Engineering Consultants Ltd.

Suite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8

Tel: 519-372-4828 Ext. 105| rakeshsharma@gssengineering.ca

Rakesh Sharma

From: Rakesh Sharma
Sent: August 15, 2025 10:41 AM
To: Carl Seider; Grace DaCosta
Cc: Geoff Aitken
Subject: RE: Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey

HI Carl

I am resending the link to the presentation as requested:

https://www.westgrey.com/media/klgbn1l5/public-meeting-presentation.pdf

Thanks.

Rakesh Sharma, MASc Eng, P.Eng. Consulting Engineer,
Secretary –Treasurer
GSS Engineering Consultants Ltd.
uite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8
Tel: 519-372-4828 Ext. 105| rakeshsharma@gssengineering.ca

From: Carl Seider <c.seider@greysauble.on.ca>
Sent: August 13, 2025 11:45 AM
To: Grace DaCosta <gracedacosta@gssengineering.ca>
Cc: Rakesh Sharma <rakeshsharma@gssengineering.ca>; Geoff Aitken <publicworks@westgrey.com>; Carl Seider <c.seider@greysauble.on.ca>
Subject: Re: Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey

Hi Grace,

Thanks for providing an update on the Class EA for the proposed new well #1C in Durham.

As part of the Source Protection Plan amendment process to include a new drinking water well, here are the key technical requirements that need to be provided prior to seeking a Drinking Water Works Permit for the new well.

- New Wellhead Protection Area (WHPA) delineation based on the Director's Technical Rules
- Vulnerability scores are also required for new areas in accordance with Technical Rule 83
- Vulnerability assessment of activities/ potential threats in the new WHPA delineation. Our office can assist the vulnerability assessment based on the analysis of the impact of policies and to determine who has to be notified when consulting on the proposed source protection plan amendments. This vulnerability assessment should be included as part of the Class EA process to assess the impact of the Clean Water Act on landowners when identifying the preferred location for the new system.

If you have any questions or concerns with these requirements, please let us know.

Also, can you please send me the link to the recent public presentation, as the link provided didn't seem to work.

Regards,

Carl Seider
Risk Management Official

519.376.3076

www.greysauble.on.ca

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From: Grace DaCosta <gracedacosta@gssengineering.ca>
Sent: Tuesday, August 12, 2025 4:00 PM
To: Carl Seider <c.seider@greysauble.on.ca>
Cc: Rakesh Sharma <rakeshsharma@gssengineering.ca>
Subject: Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey

Dear Mr. Seider,

Please see attached our letter to update you on Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey. Should you have any questions or concerns, please feel free to contact me or Rakesh Sharma.

Sincerely,

Grace daCosta
As per Rakesh Sharma

Grace daCosta| Adminstrative Assistant
GSS Engineering Consultants Ltd.
Suite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8
Tel: 519-372-4828 Ext. 101| gracedacosta@gssengineering.ca

APPENDIX D

First Nation Consultation Documentation

GSS ENGINEERING CONSULTANTS LTD

October 18, 2024

22-037

Great Lakes Métis Council
380 9th Street East
Owen Sound, ON N4K 1P1

Attention: **Susan Schank, Administrative**

RE: **Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey**

Dear Ms. Schank,

We are writing this letter to inform you that the Municipality of West Grey initiated a Class Environmental Assessment for the construction of a new municipal water supply well for Durham Water Works.

Durham water works draws water from three water supply wells (Well #1B, Well #2A and Well 2B). The location of wells is indicated in the attached **Figure #2**.

The Municipality of West Grey is currently undertaking a Schedule C EA for upgrading of Durham Water Works which in its existing condition is approaching the rated capacity of the treatment plants permitted by the drinking water works license and permit. Furthermore, the existing water supply well(s) yield is on the decline, thereby threatening availability of water supplies in sufficient quantity. The municipality is obligated to search for methods to increase water supply capability and rated capacity of water works in order that the water works can continue to supply potable water meeting Ontario Drinking Water Standards (ODWS) to water consumers.

As part of the EA process the following alternatives were explored:

1. Do nothing.
2. Limit Growth.
3. Reduce loss of water from the distribution system and improve water conservation
4. Increased water supply from existing well(s).
5. Construct new ground water supply source(s) and add additional treatment capacity, as needed.
6. Construct new surface water supply source intake and add additional treatment capacity, as needed.
7. Obtain additional water supply from neighbouring municipality or water works to supplement shortfall in existing water works capacity.

Alternative 5 is the preferred alternative as determined from public consultation. This alternative is to construct a new ground water supply source well.

In 2022 a test well (TW #1) was drilled as shown in the attached figure. The step testing of this test well indicated that aquifer has potential to construct a municipal well. Therefore, construction of a new well (Well #3) at the location as shown in **Figure #**2 is the preferred alternative.

It may be noted that per investigations completed to date, the new well shall potentially impact existing municipal Well 1B, which shall be taken into consideration to determine safe yield from the new well.

By way of this letter, on behalf of the Municipality, we request you to inform us if your office has any concerns or requirements that must be addressed through the EA process for construction of a new water supply well for the Durham water works.

Yours sincerely,

GSS Engineering Consultants Ltd.

Rakesh Sharma, P. Eng., Secretary-Treasurer
Designated Consulting Engineer

RS/nc

cc Geoff Aitken, Director of Infrastructure and Public Works

Municipal Well Location Plan
New Water Supply Well
EA for Durham Water Works
Municipality of West Grey

GSS ENGINEERING CONSULTANTS LTD

Design:	RS
Drawn:	TDL
APPROVED:	RS
Date:	SEPT. 2024
Scale:	1:4000
FILE No.	22-037
FIG. No.	Fig. 2

Friday, October 4, 2024 9:15:45 AM

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GSS ENGINEERING CONSULTANTS LTD

October 18, 2024

22-037

Historic Saugeen Métis
204 High Street
Southampton, ON N0H 2L0

Attention: **To whom it may concern**

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Yours sincerely,

GSS Engineering Consultants Ltd.

Rakesh Sharma, P. Eng., Secretary-Treasurer
Designated Consulting Engineer

RS/nc

cc Geoff Aitken, Director of Infrastructure and Public Works

Municipal Well Location Plan
New Water Supply Well
EA for Durham Water Works
Municipality of West Grey

GSS ENGINEERING CONSULTANTS LTD

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GSS ENGINEERING CONSULTANTS LTD

October 18, 2024

22-037

Saugeen Ojibway Nation,
Environmental Office
10129 Highway 6
Georgian Bluffs, ON N0H 2T0

Attention: **Charlene Leonard, Resources & Infrastructure Manager**

RE: **Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey**

Dear Ms. Leonard,

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Durham water works draws water from three water supply wells (Well #1B, Well #2A and Well 2B). The location of wells is indicated in the attached **Figure #2**.

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Rakesh Sharma, P. Eng., Secretary-Treasurer
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RS/nc

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Municipal Well Location Plan
New Water Supply Well
EA for Durham Water Works
Municipality of West Grey

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GSS ENGINEERING CONSULTANTS LTD

August 11, 2025

22-037

Great Lakes Métis Council
380 9th Street East
Owen Sound, ON N4K 1P1

Attention: **Susan Schank, Administrative**

RE: **Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey**

Dear Ms. Schank,

We are writing this letter to provide you with an update on Municipality of West Grey's initiated Class C Environmental Assessment for the construction of a new municipal water supply well for Durham Water Works. We sent a letter earlier in October 2024 when this EA process commenced.

Durham Water Works draws water from three wells (Well #1B, Well #2A and Well 2B). The location of the wells is indicated in the attached **Figure #2**.

Durham Water Works in its existing condition is approaching the rated capacity of the treatment plants permitted by the drinking water works license and permit. Furthermore, the existing water supply well(s) yield is on the decline, thereby threatening availability of water supplies in sufficient quantity.

As part of the EA process the following alternatives were explored in Phase 2:

1. Do nothing.
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Alternative 5 was identified as the preliminary preferred alternative as determined from public consultation, which was to construct a new ground water supply source well.

In October and November 2024, drilling and construction took place to construct a new well at Rockwood Terrace's site in Durham. A 300 mm dia. (Well #1C) was completed in bedrock at 71 m depth which is similar to other municipal wells. Downhole testing indicated virtually all flow to the well occurred below a depth of 45 m. More then 80% inflow came from three (3) major fractures at depths of 59 m, 63 m and 68 m. 72 hour pumping test was completed in December 2024, and water level was measured in neighbouring wells. No complaints of interference with private wells were received. Monitoring showed strong hydraulic connection between Well # 1C and existing municipal Well # 2 & 2A and subdued connection with Well # 1B. Testing indicated Well 1C will sustainably yield water supply at the test rate of 2160 m^3/day.

A public meeting was undertaken on Aug. 6, 2025 at the municipal office, where a Power Point presentation was made outlining the EA process, discussion of Problem Definition, review of alternative solutions, selection of Preliminary Preferred Solution (Well # 1C), water treatment alternatives for Well # 1C water supply and presentation of Preliminary Recommended Alternative. This will involve:

- Adoption of Well # 1C as municipal well after obtaining PTTW, licence & permit from MECP.
- Construction of raw water main from Well # 1C to Well # 1B Pump house
- Possible chlorination facility at Well # 1C site
- Upgrading of Well # 1B Pump house building to accommodate additional cartridge filters, UV reactors and associated civil, electrical, and mechanical upgrades.

West Grey will also continue to implement the program to identify water main loss locations and reduce water losses.

By way of this letter, on behalf of the Municipality, we request you to inform us if your office has any concerns or requirements that must be addressed through the EA process for adoption of a new water supply Well # 1C and water treatment at Well # 1B Pump house of the Durham Water

Works. A copy of the Power Point presentation is available at Municipality of West Grey's Well's site by clicking this link below:

https://www.westgrey.com/media/klgbn1l5/public-meeting-presentation.pdf

Yours sincerely,

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Rakesh Sharma, P. Eng., Secretary-Treasurer
Designated Consulting Engineer

RS/nc

cc Geoff Aitken, Director of Infrastructure and Public Works

Municipal Well Location Plan
New Water Supply Well #1C
EA for Durham Water Works
Municipality of West Grey

GSS ENGINEERING CONSULTANTS LTD

Design:	RS
Drawn:	TDL
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Date:	SEPT. 2024
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Tuesday, August 12, 2025 10:07:13 AM

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GSS ENGINEERING CONSULTANTS LTD

August 11, 2025

22-037

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Designated Consulting Engineer

RS/nc

cc Geoff Aitken, Director of Infrastructure and Public Works

Municipal Well Location Plan
New Water Supply Well #1C
EA for Durham Water Works
Municipality of West Grey

GSS ENGINEERING CONSULTANTS LTD

Design:	RS
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GSS ENGINEERING CONSULTANTS LTD

August 11, 2025

22-037

Saugeen Ojibway Nation,
Environmental Office
10129 Highway 6
Georgian Bluffs, ON N0H 2T0

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Designated Consulting Engineer

RS/nc

cc Geoff Aitken, Director of Infrastructure and Public Works

Municipal Well Location Plan
New Water Supply Well #1C
EA for Durham Water Works
Municipality of West Grey

GSS ENGINEERING CONSULTANTS LTD

Design:	RS
Drawn:	TDL
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Tuesday, August 12, 2025 10:07:13 AM

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Rakesh Sharma

From: Amber Debassige <execassist.ri@saugeenojibwaynation.ca>
Sent: October 22, 2024 10:21 AM
To: Nancy Cluthe
Cc: Charlene Leonard; Natalie Kuipers; Kove Sartor; R&I Associate
Subject: Consultation Form - Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)
Attachments: Category 1+2_Municipal SON Consultation Application Form - Nawash.docx

Good morning,

Please see attached consultation form for Schedule C EA for Durham Water Works, Municipality of West Grey (22-037)

Please fill out form and send back completed form along with mailed cheque
If you have any questions, please let me know

Thank you,

--

Amber Debassige
Executive Assistant to Resources and Infrastructure
519-534-5507 (Office)

Environment Office
Saugeen Ojibway Nation.

10129 Hwy 6 Georgian Bluffs
Ontario, N0H 2T0
saugeenojibwaynation.ca

010129 Highway 6,
Georgian Bluffs, ON
N0H 2T0
(519) 534-5507
saugeenojibwaynation.ca

Environment Office
Saugeen Ojibway Nation.

SON Consultation Request Form

Pursuant to *s. 35 of the Constitution Act, 1982*, SON must be consulted about proposed activities within SON's Territory. In order to engage with SON, all Proponents are required to submit a consultation request to SON prior to undertaking a Project on SON's Traditional Territory. Please complete and submit the following form in an email with the subject line including the industry and project name (e.g. Subject: Residential Development. Bluewater Shores).

Each consultation request must be submitted with a **$100.00** filing fee via cheque. Please complete a cheque with the following information and attach a scan or photo of the cheque to your request email:

Paid to the Order of: **Chippewas of Nawash**

Memo line: **SON Consultation Request Filing Fee (Project Name)**

Please email completed form to:

TO: execassist.ri@saugeenojibwaynation.ca
CC: associate.ri@saugeenojibwaynation.ca : gis@saugeenojibwaynation.ca : archaeology@saugeenojibwaynation.ca

Project Summary

1. Project Name

2. Alternative Project Name(s)

3. Proponent/Company Name

010129 Highway 6,
Georgian Bluffs, ON
N0H 2T0
(519) 534-5507
saugeenojibwaynation.ca

Environment Office
Saugeen Ojibway Nation.

4. Type of Project

☐ **Building Development**

☐ **Severance Application**

☐ **Other:** _____

Proponent Information

5. Representative Name

6. Email Address

7. Address

City/Municipality

Province

Postal Code

8. Have you submitted an application to the SON EO before?

☐ **Yes**

☐ **No**

8A. If you said yes to the previous question, please write the address of previous project(s)

Project Description

9. Proposed project description: *Please include scope and nature of the proposed project*

010129 Highway 6,
Georgian Bluffs, ON
N0H 2T0
(519) 534-5507
saugeenojibwaynation.ca

Environment Office
Saugeen Ojibway Nation.

10. Civic Address of Project

City/Municipality **Province** **Postal Code**

Please attach a PDF map and GIS shapefile of the proposed activity site if available.

11. Proposed project start date

12. Proposed project end date

12. Current status

☐ **Pre-planning stage** (e.g., project development stage)

☐ **Pre-application stage** (e.g., preparing for government application)

☐ **Pre-approval stage** (e.g., awaiting government approval of project)

010129 Highway 6,
Georgian Bluffs, ON
N0H 2T0
(519) 534-5507
saugeenojibwaynation.ca

Environment Office
Saugeen Ojibway Nation.

☐ **Post-approval stage (e.g., draft-conditions of approval condition for SON**

---

13. *Please select the studies that are required to be submitted to all approval authorities for your project.*

☐ **Archaeological assessment**

☐ **Environmental impact assessment**

☐ **Hydrological impact assessment**

☐ **SocioEconomic impact assessment**

☐ **Cumulative impact assessment**

☐ **Other - please specify:**

14. Which professional consulting firm have you hired to conduct the assessment?

<u>Additional Information</u>

Please attach any supporting documentation with this consultation request form that is pertinent to the proposed activity, including, but not limited to:

- Copies of permit applications;

010129 Highway 6,
Georgian Bluffs, ON
N0H 2T0
(519) 534-5507
saugeenojibwaynation.ca

Environment Office
Saugeen Ojibway Nation.

- Technical studies;
- Assessments; and
- Project plans and policies.

We will confirm receipt of the form within 10-15 business days. Once we send you a receipt, please mail your filing fee to: **Environment Office of the Saugeen Ojibway Nation, 10129 Highway 6, Georgian Bluffs, ON, N0H2T0**. Please note that the consultation request will not be processed until the fee is received.

NEXT STEPS

The Environment Office will review your request for consultation. If consultation is required, a Letter of Agreement (LOA) will be sent to you. The purpose of the LOA is to ensure that the Proponent provides initial capacity funding to SON for a preliminary review of, and discussion regarding, the project. This capacity funding will allow the SON Environment Office and its technical advisors to conduct an initial review of the project and make a preliminary determination about which issues may require further technical investigation due to potential impacts on SON's rights and interests.

For additional information, please refer to the "Principles for Proponents" document and the "SON Consultation Process" diagram (please see attached). We appreciate your patience as you engage in consultation with the SON.

Outlook

FW: Notice of Commencement for Water Supply Well Class EA for Durham Water Works

From Rakesh Sharma <rakeshsharma@gssengineering.ca>
Date Mon 10/28/2024 10:01 AM
To Nancy Cluthe </o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=38ce2c2d780a417296cd046412b94b21-nancycluthe>

file

Rakesh Sharma, MASc Eng, P.Eng. Consulting Engineer,
Secretary –Treasurer
GSS Engineering Consultants Ltd.
Suite 230-945 3rd Ave E, Owen Sound, ON N4K 2K8
Tel: 519-372-4828 Ext. 105| rakeshsharma@gssengineering.ca

From: Coordinator LRC HSM <hsmlrcc@bmts.com>
Sent: October 28, 2024 9:59 AM
To: Rakesh Sharma <rakeshsharma@gssengineering.ca>
Subject: Notice of Commencement for Water Supply Well Class EA for Durham Water Works

Municipality of West Grey

RE: Water Supply Well Class EA - Durham Water Works

The Historic Saugeen Métis (HSM) Lands, Waters and Consultation Department has reviewed the notice of commencement for the Durham Water Works New Water Supply Well Class EA. HSM has no concerns or comments at this time, but wishes to remain informed and would greatly appreciate updates as the project progresses.

Thank you for the opportunity to engage and review this project.

Regards,

Georgia Lumley

Coordinator, Lands, Waters & Consultation
Historic Saugeen Métis
204 High Street
Southampton, ON
saugeenmetis.com
519.483.4000

Outlook

Re: Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey

From hsmlrcc <hsmlrcc@bmts.com>
Date Tue 8/19/2025 2:00 PM
To Rakesh Sharma <rakeshsharma@gssengineering.ca>

1 attachment (6 MB)
Historic Saugeen Metis.pdf;

Good afternoon,

Thank you for providing an update regarding the Class C EA for New Water Supply Well for Durham Works, West Grey. HSM has no concerns at this time.

Best,

Neala

Neala MacLeod Farley
Coordinator, Lands, Waters & Consultation

HISTORIC SAUGEEN MÉTIS

Historic Saugeen Métis
204 High Street
Southampton, ON
www.saugeenmetis.com
519-483-4000

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Subject: Class EA Schedule C for New Water Supply Well for Durham Water Works, West Grey
Date: 12 Aug 2025 16:17
From: Grace DaCosta <gracedacosta@gssengineering.ca>
To: "saugeenmetis@bmts.com" <saugeenmetis@bmts.com>
Cc: Rakesh Sharma <rakeshsharma@gssengineering.ca>

010129 Highway 6,
Georgian Bluffs, ON
N0H 2T0
(519) 534-5507
saugeenojibwaynation.ca

Environment Office
Saugeen Ojibway Nation.

SON Consultation Request Form

Pursuant to *s. 35 of the Constitution Act, 1982*, SON must be consulted about proposed activities within SON's Territory. In order to engage with SON, all Proponents are required to submit a consultation request to SON prior to undertaking a Project on SON's Traditional Territory. Please complete and submit the following form in an email with the subject line including the industry and project name (e.g. Subject: Residential Development. Bluewater Shores).

Each consultation request must be submitted with a **$100.00** filing fee via cheque. Please complete a cheque with the following information and attach a scan or photo of the cheque to your request email:

Paid to the Order of: **Chippewas of Nawash**

Memo line: **SON Consultation Request Filing Fee (Project Name)**

Please email completed form to:

TO: execassist.ri@saugeenojibwaynation.ca
CC: associate.ri@saugeenojibwaynation.ca : gis@saugeenojibwaynation.ca : archaeology@saugeenojibwaynation.ca

Project Summary

Updating of Durham Water Works, Durham, West Grey

1. Project Name

Municipality of West Grey

2. Alternative Project Name(s)

3. Proponent/Company Name

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Saugeen Ojibway Nation.

4. Type of Project

☐ **Building Development**

☐ **Severance Application**

☒ **Other:**

Expansion of Durham Water Works

Proponent Information

Geoff Aitken, Director of Infrastructure & Public Works	publicworks@westgrey.ca
5. Representative Name	**6. Email Address**

402813 Grey County Road 1, RR #2

7. Address

Durham, Municipality of West Grey	ON	N0G 1R0
City/Municipality	**Province**	**Postal Code**

8. Have you submitted an application to the SON EO before?

☐ **Yes**

☒ **No**

8A. If you said yes to the previous question, please write the address of previous project(s)

Project Description

9. Proposed project description: *Please include scope and nature of the proposed project*

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The Project is to increase the capacity of Durham Water Works by construction of a new well to supply additional water and upgrade the existing Well #1B Pumphouse and treatment plant building to accommodate additional water treatment equipment. The new well is to be constructed at the well site within Rockwood Terraces Complex (Grey County owned) in Durham.

172 South Street, East

10. Civic Address of Project

Durham, West Grey | ON

City/Municipality | **Province** | **Postal Code**

Please attach a PDF map and GIS shapefile of the proposed activity site if available.

May 2026 | April 2027

11. Proposed project start date | **12. Proposed project end date**

12. Current status

☒ **Pre-planning stage** (e.g., project development stage)

☐ **Pre-application stage** (e.g., preparing for government application)

☐ **Pre-approval stage** (e.g., awaiting government approval of project)

☐ **Post-approval stage (e.g., draft-conditions of approval condition for SON**

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13. *Please select the studies that are required to be submitted to all approval authorities for your project.*

- ☐ **Archaeological assessment**
- ☒ **Environmental impact assessment**
- ☐ **Hydrological impact assessment**
- ☒ **SocioEconomic impact assessment**
- ☐ **Cumulative impact assessment**
- ☒ **Other - please specify:**

Schedule C EA in accordance with Municipal Engineering Association of Ontario

PTTW from MECP

14. Which professional consulting firm have you hired to conduct the assessment?

GSS Engineering Consultants Ltd.

Additional Information

Please attach any supporting documentation with this consultation request form that is pertinent to the proposed activity, including, but not limited to:

- Copies of permit applications;
- Technical studies;
- Assessments; and
- Project plans and policies.

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saugeenojibwaynation.ca

Environment Office
Saugeen Ojibway Nation.

We will confirm receipt of the form within 10-15 business days. Once we send you a receipt, please mail your filing fee to: **Environment Office of the Saugeen Ojibway Nation, 10129 Highway 6, Georgian Bluffs, ON, N0H2T0**. Please note that the consultation request will not be processed until the fee is received.

NEXT STEPS

The Environment Office will review your request for consultation. If consultation is required, a Letter of Agreement (LOA) will be sent to you. The purpose of the LOA is to ensure that the Proponent provides initial capacity funding to SON for a preliminary review of, and discussion regarding, the project. This capacity funding will allow the SON Environment Office and its technical advisors to conduct an initial review of the project and make a preliminary determination about which issues may require further technical investigation due to potential impacts on SON's rights and interests.

For additional information, please refer to the "Principles for Proponents" document and the "SON Consultation Process" diagram (please see attached). We appreciate your patience as you engage in consultation with the SON.

CORPORATION OF THE MUNICIPALITY OF WEST GREY

60622

CHI00008 CHIPPEWAS OF NAWASH
010129 HWY 6
GEORGIAN BLUFFS ON N0H 2T0

22-Oct-2024

60622

DATE	REFERENCE	DESCRIPTION / VOUCHER NO.		AMOUNT
22-Oct-2024	OCT. 22, 2024	SON Consultation Request Filing Fee (Durham Wate	225	100.00
			TOTAL	100.00

This Document Contains Security Features. See Reverse. Ce chèque comporte des caractéristiques de sécurité. Voir à l'endos.

West Grey

CORPORATION OF THE MUNICIPALITY OF WEST GREY
RR 2
DURHAM, ONTARIO N0G 1R0
(519) 369-2200

CIBC

CANADIAN IMPERIAL BANK OF COMMERCE
DURHAM BANKING CENTRE
106 GARAFRAXA ST. N.
DURHAM, ON N0G 1R0

60622

22-Oct-2024

60622

PAY **One Hundred Dollars 00 Cents.**

********100.00

TO THE ORDER OF **CHIPPEWAS OF NAWASH**
010129 HWY 6
GEORGIAN BLUFFS ON N0H 2T0

MUNICIPALITY OF WEST GREY - GENERAL ACCOUNT

PER _____

PER _____

⑈006062 2⑈ ⑆02852⑈010⑆ 94⑈00311⑈

APPENDIX E

Correspondence with Private Well Owners
Impacted by New Well

MUNICIPALITY OF West Grey

402813 Grey Road 4
Durham, ON N0G 1R0

Date
Resident Name
Address

Similar Letter Issued to All Property Owners on Attached List

RE: Well Head Protection Area (WHPA) for New Water Supply Well #1C

Roll #

Dear Property Owner:

Background

Municipality of West Grey initiated a Schedule C Class Environmental Assessment on December 15, 2022, to increase the water supply and treatment capacity of the Durham Water Works. Accordingly, Problem Statement and Alternative Solutions documents were presented by way of posting them on the municipal website. A preliminary Preferred Solution was also presented and comments were requested from Durham residents and other stakeholders.

Following the above steps, a new Water Well #1C was constructed and tested to determine its suitability to supply water of acceptable quality and in sufficient quantity to meet Durham's Water Distribution System's needs. A program involving short term and long term pump testing, video inspection, water sampling and analysis, etc. confirmed that the well was suitable for municipal water supply use. Consequently, a public meeting was held in Council Chambers on August 6, 2025 to present the study findings to date.

WHPA (Well Head Protection Area)

As a next step, a Source Water Protection Study was completed for new Well #1C to determine the Well Head Protection Area (WHPA), as required under the Clean Water Act, 2006. This was undertaken by employing detailed and complex computer models. WHPA for the wells is shown on the attached Figure #1.

The WHPA determination has indicated that your property lies within an area whereby surface contaminants have the potential to impact the source of water to municipal drinking water system. Certain activities near municipal wells may pose a risk to the quality of water reaching the municipal Well #1C. One role of the Drinking Water Source Protection (DWSP) program is to manage these risks.

MUNICIPALITY OF
West Grey

402813 Grey Road 4
Durham, ON N0G 1R0

Purpose of this Notification

As a property owner in the WHPA area, existing Source Protection Plan policies may now affect certain activities on your property. These activities may include storage of certain chemicals, (e.g. wood strippers and degreasers) fuel storage and/or septic system inspection requirements.

To summarize, we are sending this notification to you:

- Because the property with the roll number at the top of this letter is located in an area that will supply water to new municipal Well #1C; and

- Because we want you to have an opportunity to be involved in the process and review the WHPA maps.

Please note that information about your property will not be made public. If you have any questions about this letter, the information enclosed, or Drinking Water Source Protection, you can contact the undersigned. Based on the nature of your inquiry, we will involve the Consulting Engineer or Risk Management Official from the Grey Sauble Source Water Protection Team to address your inquiry or concern. In future, you will receive further notification(s) from Risk Management Office of Grey Sauble Conservation Authority regarding this matter.

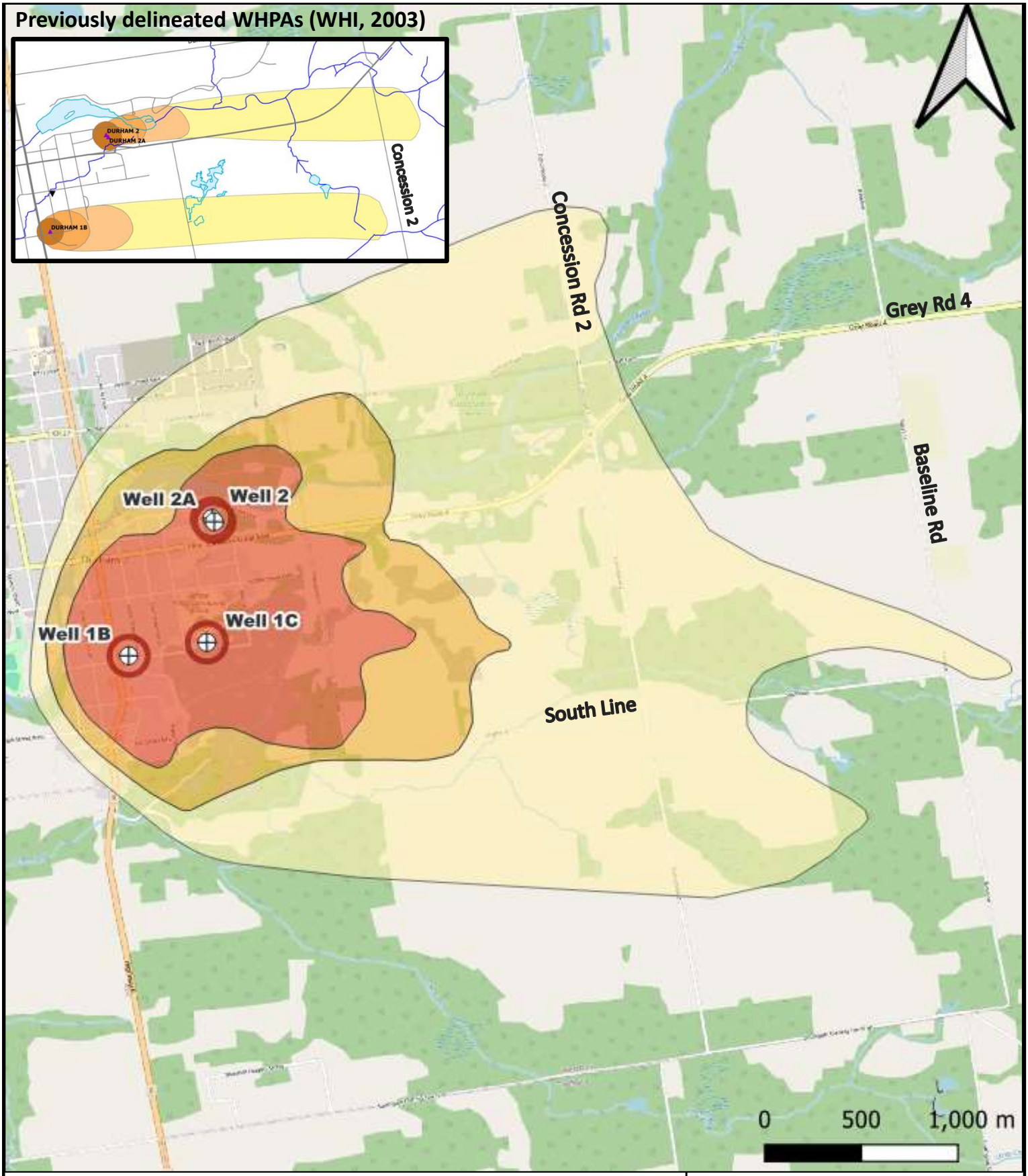
Additional information about the Drinking Water Source Protection program can be found at home.waterprotection.ca

Sincerely,

Karl Schipprack,
Director of Infrastructure and Development

CC – Carl Seider, Grey Sauble Conservation Authority

Rakesh Sharma, GSS Engineering Consultants Ltd.



Legend

- Durham Wells
- Waterbody
- Watercourse

Well Head Protection Areas

- 100 m Buffer (WHPA-A)
- 2 years (WHPA-B)
- 5 years (WHPA-C)
- 25 years (WHPA-D)

Source Water Protection Study for the Community of Durham

Durham Composite Capture Zones under Future Pumping Rates

Aqua Insight

4-2a

WELL_INTA	ZONE_NAM	THREAT_TY	THREAT_LE	ARN_20	ThreatLocation	THREAT_ID	SUBCAT_ID	THREAT_AC	STATUS_20	RMO notes	Names	Property Address	Mailing Address Civic # or Box #		Road	City	Province	Postal Code
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010730000000	Residential	2	02E	NEW	PT	VS - 10	Paul and Tammy Nixon	403106 Grey Rd 4		403106	Grey Rd 4	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010750000000	Residential	2	02E	NEW	PT	VS - 10	John Bosworth and Brenda Prevado	403111 Grey Rd 4	PO Box 405		Station Main	Hanover	ON	N4N3L9
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010750100000	Residential	2	02E	NEW	PT	VS - 10	Joel Kidd and Christine Kidd	333499 Concession 1, Durham, ON N0G1R0		333499	Concession 1	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010760000000	Residential	2	02E	NEW	PT	VS - 10	Anne-Marie McDougall	403124 Grey Rd 4, Durham, ON N0G1R0		403124	Grey Rd 4	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010760200000	Residential	2	02E	NEW	PT	VS - 10	Pascale Katona	403130 Grey Rd 4, Durham, ON N0G1R0		403130	Grey Rd 4	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010760300000	Residential	2	02E	NEW	PT	VS - 10	Ronald Harper	403138 Grey Rd 4, Durham, ON N0G1R0		403138	Grey Rd 4	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010761000000	Residential	2	02E	NEW	PT	VS - 8 and 10	Thomas and Ellen Edgington	403140 Grey Rd 4, Durham, ON N0G1R0		403140	Grey Rd 4	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010900000000	Residential	2	02E	NEW	PT	VS - 10	Bradley and Sheryl Marshall	333484 Concession 2, Durham, ON N0G1R0		333484	Concession 2	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010930100000	Residential	2	02E	NEW	PT	VS - 8 and 10	Bruce and Diane Brown	333424 Concession 1, Durham, ON N0G1R0		333424	Concession 1	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010940000000	Residential	2	02E	NEW	PT	VS - 8 and 10	Jason and Angela Beren	333476 Concession 1, Durham, ON N0G1R0		333476	Concession 1	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010940100000	Residential	2	02E	NEW	PT	VS - 10	Lyall and Linda Eccles	333470 Concession 1, Durham, ON N0G1R0		333470	Concession 1	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010940300000	Residential	2	02E	NEW	PT	VS - 8 and 10 (neighbouring property)	John and Joan Bak	333464 Concession 1. Durham, ON N0G1R0	PO Box 878 Fire # 333464		Concession 1	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200010941000000	Residential	2	02E	NEW	PT	VS - 8 and 10	Bonnie Doherty	333482 Concession 1, Durham, ON N0G1R0		333482	Concession 1	Durham	ON	N0G1R0
DURHAM_1	B, C	PATHOGEN	SIGNIFICA	42052200011000000000	Agriculture	3	03A	NEW	PT	enough fields need to verify if any 8,10,15	Christopher Hopkins	303166 Southline Road, Durham, ON N0G1R0		303166	Southline Road	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052200011000100000	Residential	2	02E	NEW	PT	Depends on VS	Andrew and Heather Grant	333390 Concession 1, Durham, ON N0G1R0		333390	Concession 1	Durham	ON	N0G1R0
DURHAM_1	B, E	CHEMICAL	SIGNIFICA	42052600030370000000	Commercial	12,15	12A, 15A	NEW	PT	gas station	13882390 Canada Inc.	190 Garafraxa St. S., Durham, ON N0G1R0		866	Ward St	Bridgenorth	ON	K0L1H0
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600040810000000	Commercial	12	12A	NEW	PT	Foodland (VS - 10)	Kropf Mart Limited	344-366 Garafraxa St. S., Durham, ON N0G1R0		165	Geddes St	Elora	ON	N0B1S0
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600040820000000	Commercial	12	12A	NEW	PT	VS - 10	Kropf Mart Limited	378 Garafraxa St. S., Durham, ON N0G1R0		165	Geddes St	Elora	ON	N0B1S0
DURHAM_1	A	CHEMICAL	SIGNIFICA	42052600050730000000	Commercial	12	12A	ORIGINAL	VS	Tim Hortons	The TDL Group Limited	317 Garafraxa St. S., Durham, ON N0G1R0	1700-335		8th Ave SW	Calgary	AB	T2P1C9
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600050820000000	Commercial	12	12A	NEW	PT	co-op store	Midwest Co-operative Services Inc.	377 Garafraxa St.,S., Durham, ON N0G1R0		15	Hillcrest St E	Teeswater	ON	N0G2S0
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600050840000000	Commercial	15	15 A/B	ORIGINAL	PT	VS - 10 and 8	West Grey Municipality	192 Elizabeth St. E., Durham, ON N0G1R0		402813	Grey Rd 4	Durham	ON	N0G1R0
DURHAM_1	A			42052600050840200000	Commercial	12	12A	ORIGINAL	VS		The TDL Group Limited	183 South St. E., Durham, ON N0G1R0	1700-335		8th Ave SW	Calgary	AB	T2P1C9
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600050950000000	Commercial	12	12A	NEW	PT	VS - 10 and 8 (neighbouring properties 8)	2422890 Ontario Inc	191 Park St. E., Durham, ON N0G1R0		112514	Grey Rd 3	Neustadt	ON	N0G2M0
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600050960000000	Commercial	15,16	15,12A	NEW	PT	Esso gas station	Refill Gas Inc.	581 Garafraxa St. S., Durham, ON N0G1R0	PO Box 180 581		Garafraxa St S	Durham	ON	N0G1R0
DURHAM_1	B	DNAPL	SIGNIFICA	42052600050980100000	Commercial/Industrial	16	16A/B	NEW	PT	home hardware store	271872 Ontario Limited	635 Garafraxa St. S., Durham, ON N0G1R0	C/O Josh Farlow 525		Durham Rd E	Durham	ON	N0G1R0
DURHAM_1	B	DNAPL	SIGNIFICA	42052600051100200000	Commercial/Industrial	16	16A/B	NEW	PT	highland well drilling	Hwy 4 Storage Inc	250 Elm St. E., Durham, ON N0G1R0	C/O Bob Wilson 401690		Grey Rd 4	Hanover	ON	N4N3B8
DURHAM_1	B	DNAPL	SIGNIFICA	42052600051100500000	Commercial/Industrial	16	16A/B	NEW	PT		Kent Charlton	298 Elm St. E., Durham, ON N0G1R0	PO Box 770 298		Elm St E	Durham	ON	N0G1R0
DURHAM_1	B	DNAPL	SIGNIFICA	42052600051101500000	Commercial/Industrial	16	16A/B	NEW	PT		BC Investments Inc	201 Elm St. E., Durham, ON N0G1R0		41	Proctor Rd	Schomberg	ON	L0G1T0
DURHAM_1	B	DNAPL	SIGNIFICA	42052600051102000000	Commercial/Industrial	16	16A/B	NEW	PT		Erich and Anne Marie Wilson	225 Elm St. E., Durham, ON N0G1R0	PO Box 141 225		Elm St E	Durham	ON	N0G1R0
DURHAM_1	B	DNAPL	SIGNIFICA	42052600051102500000	Commercial/Industrial	16	16A/B	NEW	PT		West Grey Municipality	245 Elm St. E., Durham, ON N0G1R0		402813	Grey Rd 4	Durham	ON	N0G1R0
DURHAM_1	B	DNAPL	SIGNIFICA	42052600051102800000	Commercial/Industrial	16	16A/B	NEW	PT	tires	8640408 Canada Inc	630 Aspen St, Durham, ON N0G1R0		6994	6th Line	Tottenham	ON	L0G1W0
DURHAM_1	B	DNAPL	SIGNIFICA	42052600051103000000	Commercial/Industrial	16	16A/B	NEW	PT		Thomas Klein and Robin Speke	285 Elm St. E., Durham, ON N0G1R0		285	Elm St E	Durham	ON	N0G1R0
DURHAM_1	B	DNAPL	SIGNIFICA	42052600051104000000	Commercial/Industrial	16	16A/B	NEW	PT		Significant Properties Limited	601 Aspen St N, Durham, ON N0G1R0		235	Madison Ave S	Kitchener	ON	N2M3H5
DURHAM_1	B	DNAPL	SIGNIFICA	42052600051104500000	Commercial/Industrial	16	16A/B	NEW	PT		1320351 Ontario Limited	549 Aspen St., Durham, ON N0G1R0	PO Box 8784 549		Aspen St	Durham	ON	N0G1R0
DURHAM_1	B			42052600051110000000	Commercial/Industrial	15	15A/B	NEW	PT	check if business office or residential	Paul and Brenda Trzecak	483 Albert St., Durham, ON N0G1R0	PO Box 549 483		Albert St	Durham	ON	N0G1R0
DURHAM_1	B			42052600051180000000	Commercial/Industrial	15	15A/B	NEW	PT		Bruce and Diane Brown	333424 Concession 1, Durham, ON N0G1R0		333424	Concession 1	Durham	ON	N0G1R0
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600051190200000	Commercial/Industrial	15	15A/B	NEW	PT		CTT Properties Inc.	185 Elizabeth St, Durham, ON N0G1R0	PO Box 665 185		Elizabeth St	Durham	ON	N0G1R0
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600051190300000	Commercial/Industrial	15	15A/B	NEW	PT		1200335 Ontario Ltd.	190 Elizabeth St. E., Durham, ON N0G1R0	133-7250		Keele St	Concord	ON	L4K1Z8
DURHAM_1	A,B	CHEMICAL	SIGNIFICA	42052600051192100000	Commercial/Industrial	15	15A/B	NEW	PT		Durham Stone and Paving Inc.	255 South St. E., Durham, ON N0G1R0	PO Box 20 255		South St E	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052600051200000000	Agriculture	3,21	03A	NEW	PT		Mark Hopkins	393312 Concession 2, Durham, ON N0G1R0		393312	Concession 2 EGR	Durham	ON	N0G1R0
DURHAM_1	C	DNAPL	SIGNIFICA	42052600051760000000	Commercial	15/16	16A	ORIGINAL	PT	curling club and buses, fuel tank	Durham Curling Club	279 Kincardine St. S., Durham, ON N0G1R0	PO Box 965 279		Kincardine St S	Durham	ON	N0G1R0
DURHAM_1	A, E, B	CHEMICAL	SIGNIFICA	42052600051770000000	Institutional	15	15A/B	NEW	PT	spruce ridge community school	Bluewater District School Board	259 Kincardine St. S., Durham, ON N0G1R0		351	1st Ave N	Chesley	ON	N0G1L0
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600051772000000	Institutional	15	15B	NEW	PT	seniors rockwood terrace	Grey County	575 Saddler St. E., Durham, ON N0G1R0		595	9th Ave E	Owen Sound	ON	N4K3E3
DURHAM_1	B	CHEMICAL	SIGNIFICA	42052600051800000000	Commercial	15	15A/B	NEW	PT	Green plumbing	1872992 Ontario Inc	673 Saddler St. E., Durham, ON N0G1R0	PO Box 656 673		Saddler St E	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052600051920000000	Residential	2	02E	NEW	PT	VS - 8 and 10	Graham 'Scott' and Brenda Hastie	678 Saddler St. E., Durham, ON N0G1R0	PO Box 836 678		Saddler St E	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052600051920200000	Residential	2	02E	NEW	PT	VS - 8 and 10	Karri-Brooke Palmer and Joshua Eccles	690 Saddler St. E., Durham, ON N0G1R0	PO Box 384 690		Saddler St E	Durham	ON	N0G1R0
DURHAM_1	B	PATHOGEN	SIGNIFICA	42052600051920300000	Residential	2	02E	NEW	PT	VS - 8 and 10	Linda McCannell	694 Saddler St E	PO Box 672 694			Durham	ON	N0G1R0

Property Type	Threat Type	Threat #	Totals
Residential -25	Septics	2	17
Agriculture - 2	ASM Application	3	2
Commercial-18	Salt Application	12	6
Commercial/Industrial -15	Fuel Storage	15	10
Institutional - 2	DNAPLs	16	11
	Grazing	21	1
			47

Rakesh Sharma

From: Carl Seider <c.seider@greysauble.on.ca>
Sent: April 15, 2026 11:57 AM
To: Karl Schipprack; Rakesh Sharma; Brad Benson
Cc: Jeff Fries; RMO Mailbox; Karen Gillan
Subject: Re: Scan from copier

Hi all,

Just wanted to add a few comments from a source water protection perspective based on the letter from Durham Stone and Paving.

1. This property appears to fall within the new WHPA-B with a vulnerability score of 8 and 10. Within this area, fuel and chemical storage activities would require a Risk Management Plan to ensure best management practices are being used.
2. With respect to aggregate washing, this will be considered as an existing activity, however there may be implications/conditions added in the future if they have an ECA for this activity.
3. As for the water bottling idea, there would definitely be implications on this activity, given the proximity to the municipal wells. We don't have water quantity threats identified for Durham, but the municipality would likely want detailed water budget studies conducted if this activity were to be proposed.
4. Processing organic waste on this property would be permitted, but we would need additional information on the types/categories of organic wastes being considered (e.g. municipal, farm) along with the measures installed to prevent impacts on groundwater. A risk management plan for Non-Agricultural Source Material storage/handling would also be required, as well as Ministry conditions on any ECA/EASR approvals.

Hope this helps the discussion. Perhaps we can set up a meeting to discuss further once Rakesh has weighed in on the EA implications.

Regards,

Carl Seider, Project Manager

Drinking Water Source Protection
237897 Inglis Falls Road, RR 4
Owen Sound, Ontario, N4K 5N6
Phone: 519-470-3000 Ext. 201
Toll Free: 877-470-3001
c.seider@waterprotection.ca

DRINKING WATER SOURCE PROTECTION
Our Actions Matter
Saugeen Conservation
Grey Sauble CONSERVATION

www.home.waterprotection.ca

From: Karl Schipprack <kschipprack@westgrey.com>
Sent: Thursday, April 9, 2026 2:03 PM
To: rakeshsharma@gssengineering.ca <rakeshsharma@gssengineering.ca>; Brad Benson <bradbenson@gssengineering.ca>; Carl Seider <c.seider@greysauble.on.ca>

Cc: Jeff Fries <jfries@westgrey.com>
Subject: Fw: Scan from copier

Hi Rakesh,

We received the attached letter from Paul Arnill. He owns the property to the south of south street that has the former gravel pit.

He also owns the property on the north side of South St. between Kincardine and Elgin. This is the location of the well that was originally drilled by West Grey.

How do we proceed with this in regards to the EA and source water protection?

Karl Schipprack, CBCO
Director of Development

Municipality of West Grey
402813 Grey Road 4
Durham, ON N0G 1R0
519-369-2200 ext. 234
www.westgrey.com | @OurWestGrey

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West Grey
nestled in nature

Confidentiality Notice: This e-mail message and attachments, if any, are sent by a Third Party Administrator for the sole use of the intended recipient(s). It may contain information that is privileged and/or confidential. If you are not the intended recipient, please notify the sender immediately by reply email and destroy this communication. Thank you.

From: scan@westgrey.com <scan@westgrey.com>
Sent: Thursday, April 9, 2026 9:06 AM
To: Karl Schipprack <kschipprack@westgrey.com>
Subject: Scan from copier

Durham Stone & Paving Inc.

255 South Street, PO Box 20, Durham, Ontario N0G 1R0 Phone: 519-369-3547

RECEIVED

APR 02 2026

March 27, 2026

Municipality of West Grey
402813 Grey Road 4
Durham, Ontario
N0G 1R0

Re: Well Head Protection Area (WHPA) for New Water Supply Well #1C

Roll # 4205 260 00511921 0000

Dear Mr. Schipprack

Durham Stone and Paving (DSP) owns and has intermittently operated a large, high-volume well located immediately south of Well B1. This well has been used for washing high-grade aggregate for industrial and construction purposes. In addition, our heavy equipment repair facility is situated within the wellhead protection area identified in your mapping. While we take pride in maintaining environmentally responsible practices and no longer utilize underground fuel storage, it is important to note that both DSP and Grey County operate similar equipment facilities within the immediate area.

Furthermore, Well 1B is located on property owned by our company. Our artesian aggregate washing well has been in existence for many years, and we are concerned about preserving our ability to continue using it. We have also made inquiries regarding the feasibility of developing Well 1B as a commercial-grade water bottling site, and have been advised that both the water quality and quantity at this location are excellent.

Additionally, DSP holds a Ministry of the Environment Provisional Certificate of Approval (No. A620022) for the processing of organic waste on Part Lot 27, Concession 2 East of Garafraxa Road, which lies immediately south of the proposed New Water Supply Well #1C. Although this organic processing facility has not yet been constructed, it should be taken into consideration by the Municipality.

Yours sincerely,

Paul S. Arnill
President Durham Stone and Paving Inc

APPENDIX F

Problem Statement and Alternative Solution issued for Phase 2,

PowerPoint Presentation for Phase 3 Public Meeting

This document was originally posted on December 15, 2022. It is being re-issued without any changes except for dates to receive feedback and glossary of terms.

Schedule C EA (Phase 2)

for Upgrading of Durham Water Works

Municipality of West Grey

(22-037)

Problem Statement

The Municipality of West Grey's Durham Water Works (WW), in its existing condition is approaching the rated capacity of the treatment plants permitted by the drinking water works licence and permit. This was established by way of recent engineering study entitled *"Durham Water and Wastewater Treatment System Capacity Assessment,"* dated September 28, 2021, prepared by GSS Engineering Consultants Ltd. Furthermore, the existing water supply well(s) yield is on the decline, thereby threatening availability of water supplies in sufficient quantity. The municipality is obligated to search for methods to increase water supply capability and rated capacity of water works in order that the water works can continue to supply potable water meeting Ontario Drinking Water Standards (ODWS) to water consumers. The municipality needs to undertake this investigation in accordance with Ontario Environmental Assessment Act, and must complete a Schedule C EA process requiring minimum two (2) contacts with the public as well as stakeholders at different phases of the EA.

Identification of Alternative Solutions

The municipal class EA process recognizes that there are several ways to solve the problem and requires that all reasonable alternatives solutions are considered. The list of the alternative solution that are being considered are as follows:

1. Do nothing
2. Limit Growth
3. Reduce loss of water from the distribution system and improve water conservation
4. Increased water supply from existing well(s)
5. Construct new ground water supply source(s) and add additional treatment capacity, as needed
6. Construct new surface water supply source intake and add additional treatment capacity, as needed
7. Obtain additional water supply from neighbouring municipality or water works to supplement shortfall in existing water works capacity

A brief description of each alternative and applicable comments are provided in **Table 1** and screening of alternatives is provided in **Table 2**.

Glossary of Terms

EA	Environmental Assessment
WW	Water Works
WTP	Water Treatment Plant
CI	Cast Iron
DI	Ductile Iron
MECP	Ministry of The Environment, Conservation & Parks

ALTERNATIVE	DESCRIPTION	COMMENTS
1. Do Nothing	• No improvements or changes would be undertaken to address capacity issue(s).	"Do Nothing" alternative represents what would occur if none of the alternative solutions were implemented
2. Limit Growth	• Maintain existing WW and associated distribution system in existing condition and limit future growth • No increase in serviced population • Requires a change to municipal planning documents	➢ Does not address significant water distribution losses and wastage of natural resource
3. Reduce water loss and improve conservation	• Continue to utilize current WTP and distribution system • Address "water loss from distribution system" • Aggressively implement existing water conservation measures • Enforce lawn watering restrictions	➢ This alternative is a long term solution, and also very expensive and may not fully address water demand issue ➢ Will require gradual replacement of all CI & DI watermains along with street reconstruction at significant expense
4. Increased water supply from existing well(s)	• Hydrogeological investigation to determine if existing well(s) can supply more water • If yes, obtain permits and approval from MECP • Increase treatment equipment capacity as needed to match increased water supply	➢ May not provide additional supply in adequate quantity ➢ Still good alternative to supplement other viable alternative(s)
5. Construct new groundwater supply source and associated treatment plant	• Drill new water well for additional water supply, preferably near existing water treatment buildings locations • Construct new or upgrade existing water treatment equipment and building • Procure new land(s) as needed • Undertake detailed hydrogeological investigation to ensure long-term water supply capabilities • Connect to exiting water distribution network	➢ New well, new treatment building or upgrading existing building will be capital intensive project ➢ Risks are associated with new drilled well capability of supplying adequate quantity, or water quality not complying with ODWS ➢ Relatively easier method to add additional treatment capacity

ALTERNATIVE	DESCRIPTION	COMMENTS
6. Construct new surface water supply source intake and associated treatment plant	• Saugeen River is a potential water supply source • Determine suitable location and construct river water intake, after obtaining all approvals • Construct raw water pumping station to supply water to treatment plant • Construct new WTP building and connect to existing water distribution networks	➢ Surface water sources are more prone to contamination and have more variable water quality ➢ Treatment process can be far more complex and expensive when compared to groundwater source ➢ Operators need to remain on guard during period of water quality changes during spring and fall and take timely corrective steps. Highly skilled operation is required ➢ Generally less desirable option when good groundwater supply source is readily available ➢ Capital Project Cost is anticipated to be highest among all alternatives
7. Treated water supply from another Water Work in West Grey or adjacent municipality	• Will require approval from County and neighbouring municipality that could supply water • West Grey has Neustadt WW, but with insufficient spare capacity to support Durham needs • Shall require construction of long water mains, associated booster pumping system and re-chlorination facility(ies)	➢ Not likely a viable option ➢ Neustadt water works is not capable to supply additional water without significant upgrading of existing water works ➢ Hanover is the nearest water works that may be able to spare supply ➢ Typically, neighbouring municipalities saves surplus capacity of their water works for their own use rather than provide to others

TABLE 2 – Screening of Alternative Solutions

ALTERNATIVE	DECISION	RATIONALE FOR NOT CARRY FORWARD
1. Do Nothing	✓	Carried forward – must be considered
2. Limit Growth	X	Screened – does not address the problem
3. Reduce water loss and improve conservation	✓	Carried forward – must be considered in conjunction with additional water supply(ies)
4. Increased water supply from existing well(s)	✓	Carried forward – must be considered in conjunction with Alternative 3 and 5
5. Construct new groundwater supply source and associated treatment plant	✓	Carried forward – feasible alternative
6. Construct new surface water supply source and associated treatment plant	X	Screened – addresses the problem but time consuming and expensive and with operational challenges
7. Treated water supply from another WW in West Grey or adjacent municipality	X	Screened – not a feasible alternative

Preferred Solution

Based on screening, Alternative 5 appears to be most reasonable solution and is identified as Preliminary Recommended Alternative Solution for further investigation and consideration.

At the time of publication of this document, municipality is considering construction of new water supply well within the boundary limits of former town of Durham on a site that is located in SW area.

By way of this publication West Grey is requesting members of the public to provide their comments on the ongoing EA process and on the solutions that are being pursued. Please provide your written comments on the attached sheet, by October 15, 2024 to the undersigned.

Issued on: October 3, 2024

Municipality of West Grey
Geoff Aitken, Director of Infrastructure & Public Works
402813 Grey Rd 4, RR #2
Durham, ON N0G 1R0

GSS Engineering Consultants Ltd.
Rakesh Sharma, P. Eng.
Suite 230 945 3rd Avenue East
Owen Sound, ON N4K 2K8

Public Meeting

Class C Environmental Assessment Study for Construction of a New Well #1C

Wednesday, August 6, 2025
West Grey Council Chambers
7:00 p.m.

22-037

WELCOME

- Please sign on sheet provided.
- Please take a comment sheet and provide your comments.

Study Purpose/Problem Statement

- The Municipality of West Grey completed “Durham Water and Wastewater Treatment System Capacity Assessment” in 2021.
- The report established that Water Works is approaching the plant’s rated capacity and risk of running out of capacity.
- The existing water supply wells yield is on the decline.
- The threat to water supply in sufficient quantity.
- Significant water losses from watermains.
- Per provincial guidelines, West Grey must undertake steps to increase supply.

Durham Water Works Facts

Rated Capacity 3,011 m³/day (460 Igpm)

Permit to Take Water Information:

Well #1B	1,375 m³/day (210 Igpm)
Well #2	1,636 m³/day (250 Igpm)
Well #2A	1,636 m³/day (250 Igpm)

Note: Any combination of well operations must not exceed 3,011 m³/day limit.

Rated Capacity Utilization

Year	Max Day (m^3/day)	% Capacity Utilization
2013	1603	53.2
2014	2289	76.0
2015	2157	71.6
2016	1455	48.3
2017	1309	43.5
2018	1470	48.8
2019	1482	49.2
2020	1591	52.8
2021	1399	46.5
2022	1756	58.3
2023	1352	44.9
2024	1192	39.6
Rated Capacity of Water Works:	**3,011 m^3/day**	

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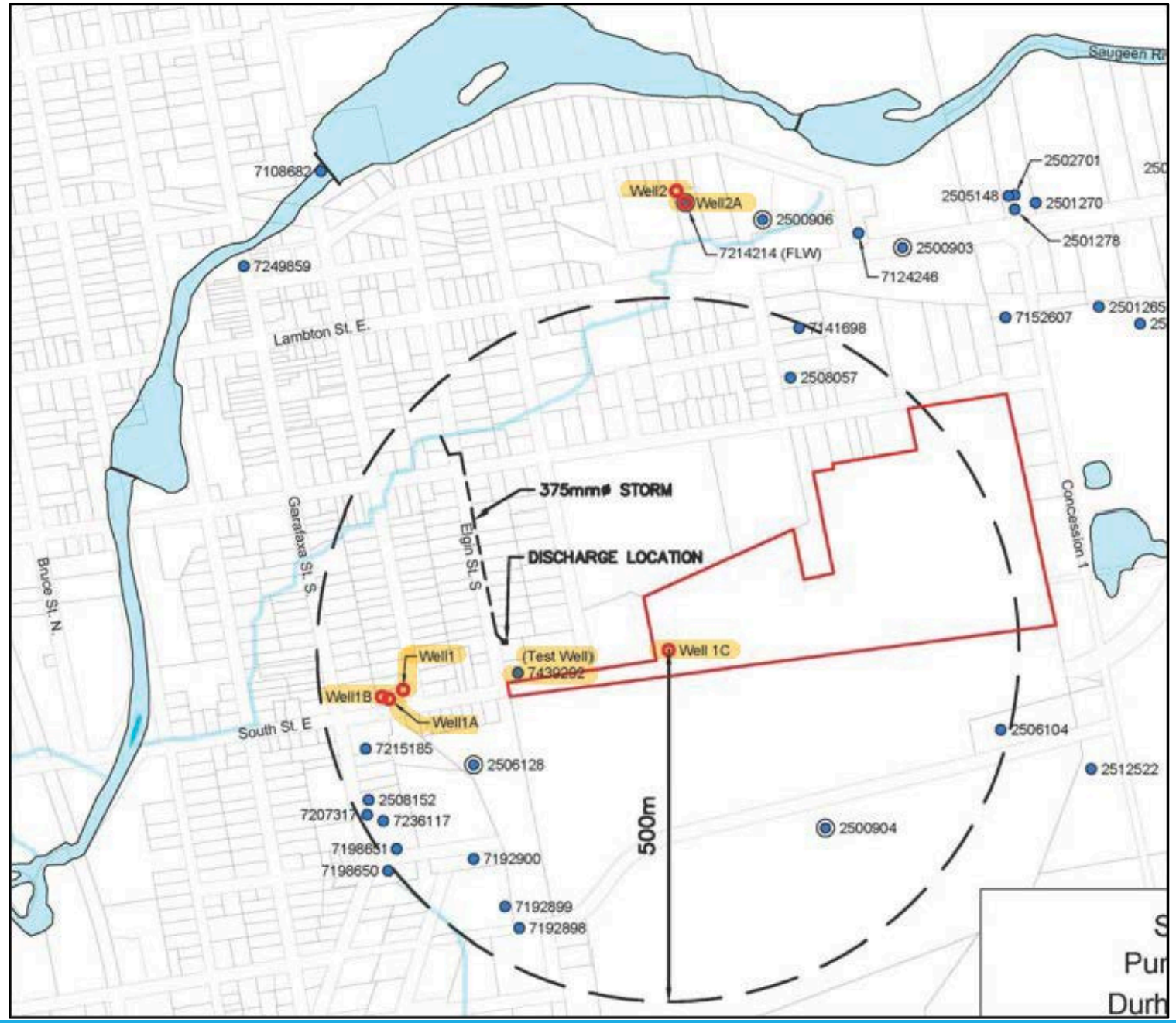
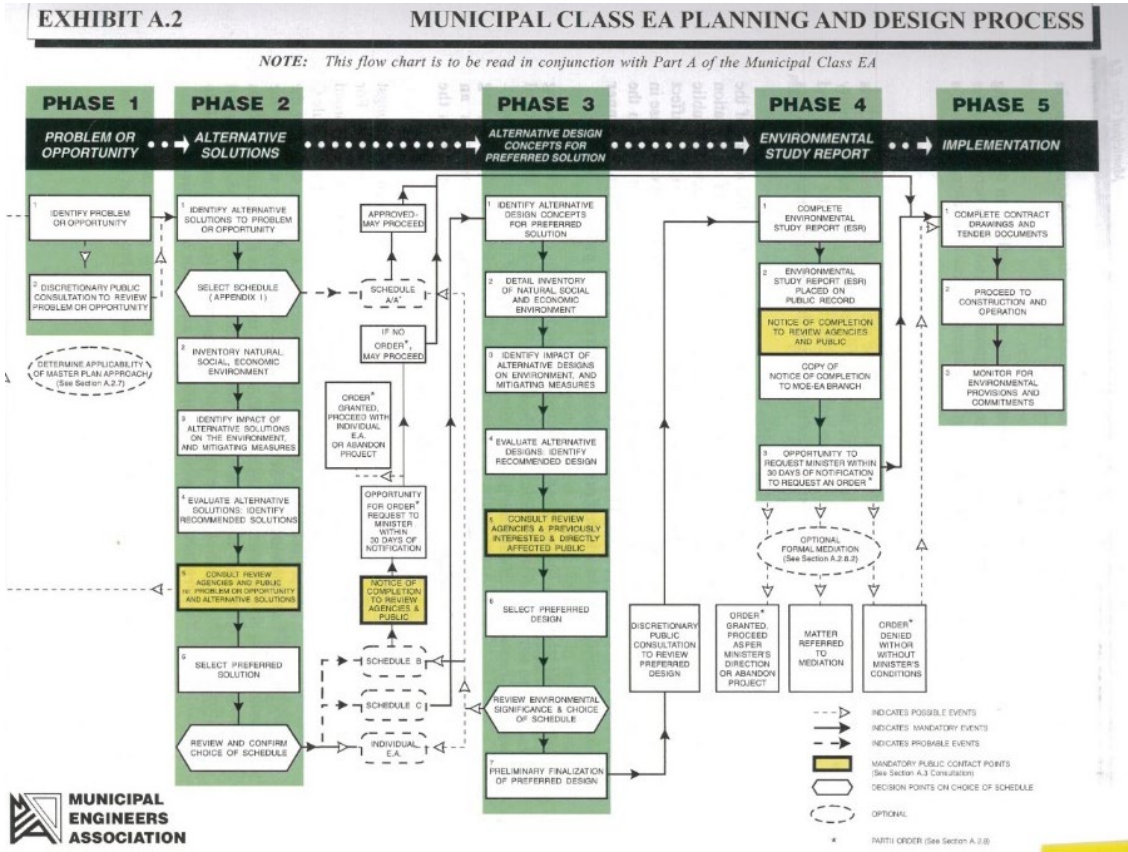


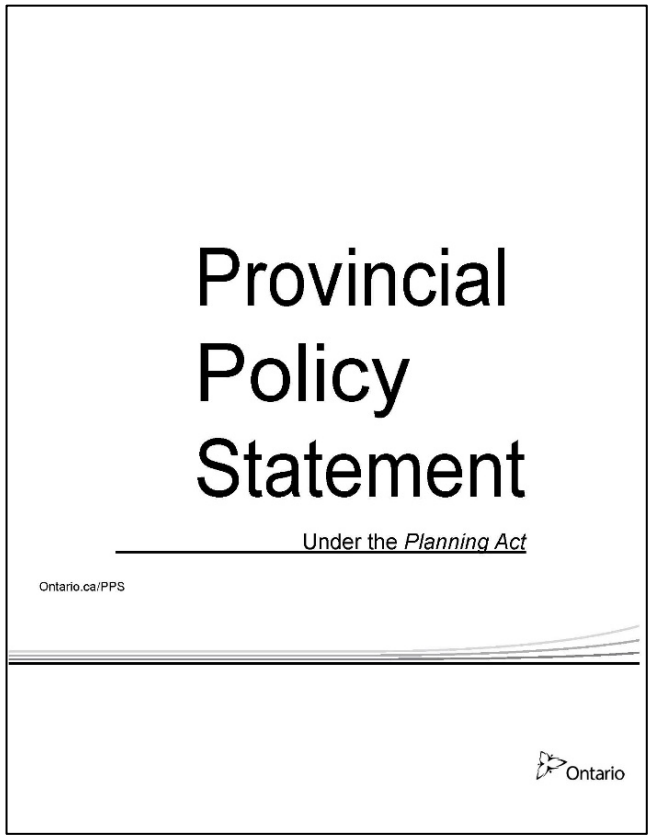
Overview of Class EA Study Process

- Address water treatment capacity requirements by:
  - Completing a systematic evaluation of alternatives
  - Considering advantages and disadvantages including net environmental effects; and
  - Providing clear documentation that describes decision making.
- Following Schedule C
- Requires completion of Phase 1, 2, 3 & 4
- Will file ESR for 30-day review



Population Forecast Planning Considerations

- Need to comply with Provincial Policy Statement.
- Ensure Sustainable growth within Durham.
- Growth forecast is due to subdivision applications.
- Draft Plan approval issued.
- Typically, 20-year projection/planning period.
- Target water treatment and supply capability is:
  - ± 2,180 m³/day increase in capacity.
  - Amounts to 42% increase.



Description of Alternative Solutions

Alternative # 1: Do Nothing

- No improvements or changes would be undertaken to address problem statement.
- Rated Capacity of Water Works will eventually be exhausted.
- This alternative represents what would likely occur if none of the alternative solutions were implemented.
- Irresponsible to “Do Nothing”.

Alternative # 2: Limit Growth

- Does not address problem of significant watermain losses.
- Maintain existing WW and associated distribution system in existing condition and limit future growth.
- No increase in serviced population.
- Requires a change to municipal planning documents.

Alternative # 3: Reduce Water Losses and Improve Conservation

- Continue to utilize current WTP and distribution system.
- Address “water loss from distribution system”.
- Aggressively implement existing water conservation measures.
- Enforce lawn watering restrictions.
- Difficult to find water loss location(s).
- Several streets with cast iron watermain.
- A long-term solution.

Alternative # 4: Increased Water Supply from Existing Well(s)

- Hydrogeological investigation to determine if existing well(s) can supply more water.
- If yes, obtain permits and approval from MECP.
- Increase treatment equipment capacity as needed to match increased water supply.
- Investigation did not support this alternative.

Alternative # 5: Construct New Water Supply Well and Associated Treatment Plant

- Drill new water well for additional water supply, preferably near existing water treatment building locations.
- Construct new or upgrade existing water treatment equipment and building.
- Procure new land(s) as needed.

Alternative # 5: Construct New Water Supply Well and Associated Treatment Plant…Continued

- Undertake detailed hydrogeological investigation to ensure long-term water supply capabilities.
- Connect to existing water distribution network.
- Risks are associated with new drilled well capability of supplying adequate quantity, or water quality not complying with ODWS.
- Relatively easier method to add additional treatment capacity.

Alternative #6 - Construct New Surface Water Supply Source Intake and Associated Treatment Plant

- Saugeen River is a potential water supply source.
- Surface water sources are more prone to contamination and have more variable water quality.
- Suitable location and river water intake needed, after obtaining approvals.

Alternative #6: Construct New Surface Water Supply Source Intake and Associated Treatment Plant…Continued

- Need raw water pumping station to supply water to treatment plant.
- Treatment process shall be more complex and expensive.
- Construct new WTP building or expand existing treatment plant building and connect to existing water distribution networks.

Alternative #6: Construct New Surface Water Supply Source Intake and Associated Treatment Plant…Continued

- Existing plant building shall not have room to accommodate new treatment equipment.
- Operators need to remain on guard during period of water quality changes during spring and fall and take timely corrective steps. Highly skilled operation is required.

Alternative #6 - Construct New Surface Water Supply Source Intake and Associated Treatment Plant…Continued

- Obtain PTTW and also complete Source Water Protection Study.
- Capital Project Cost is anticipated to be highest among all alternatives.
- Timeline for this alternative is anticipated to be much longer than other viable alternatives.

Alternative #7 - Treated Water Supply from Another Water Works in West Grey or Adjacent Municipality

- Will require approval from County and neighbouring municipality that could supply water.
- West Grey has Neustadt WW, but with insufficient spare capacity to support Durham's needs.
- Require construction of long watermains, associated booster pumping system and re-chlorination facility(ies).
- Hanover is another Water Works that may be able to spare supply but is at a significant distance.

Screening of Alternative Solutions

ALTERNATIVE	DECISION	RATIONALE FOR NOT CARRYING FORWARD
1. Do nothing.	✓	Carried forward – must be considered.
2. Limit growth.	X	Screened – does not address the problem.
3. Reduce water loss and improve conservation.	✓	Carried forward-must be considered in conjunction with additional water supply(ies).
4. Increased water supply from existing well(s).	X	Desktop assessment confirmed insufficient additional supplies.
5. Construct new groundwater supply source and associated treatment plant.	✓	Carried forward – feasible alternative.
6. Construct new surface water supply source and associated treatment plant.	X	Screened – addresses the problem but time consuming and expensive and with operational challenges.
7. Treated water supply from another Water Works in West Grey or adjacent Municipality.	X	Screened – not a feasible alternative.

New Well Construction Program

- Search began for a new well.
- New well location narrowed down to Rockwood Terrace site.
- Drilling and well construction took place in October and November 2024.
- 12-inch diameter well completed in bedrock at 71 m (232 ft) depth, similar to other municipal wells.
- Downhole testing indicated virtually all inflow to the well occurred below a depth of 45 m (149 ft).
- More than 80% of inflow come from three major fractures, at depths of 59, 63, and 68 m.


0
50
100
Metres
N
SADDLER STREET EAST
ROCK STREET
ALBERT STREET SOUTH
ELGIN STREET SOUTH
KINGARDINE STREET SOUTH
CARAFAXA STREET SOUTH
SOUTH STREET EAST
SITE OF NEW ROCKWOOD TERRACE LONG TERM CARE FACILITY
WELL 1C
2022 TEST WELL
WELL 1
WELL 1B
WELL 1A
Well 1C Location Plan and Land Use
Hydrogeological Assessment
New Durham Well 1C
Municipality of West Grey
Design: WBB
Drawn: TDL
APPROVED: WBB
Date: AUG. 2025

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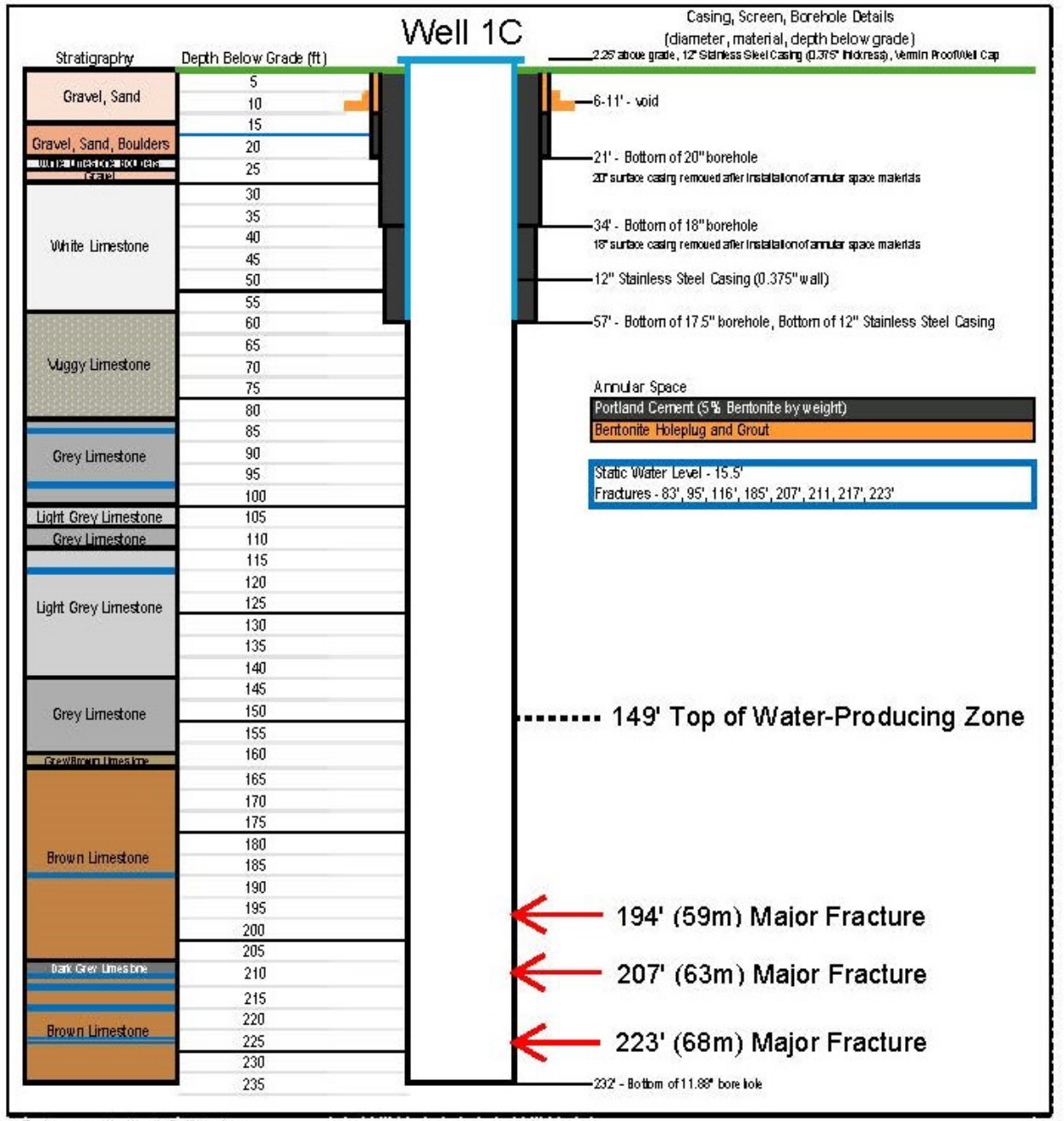
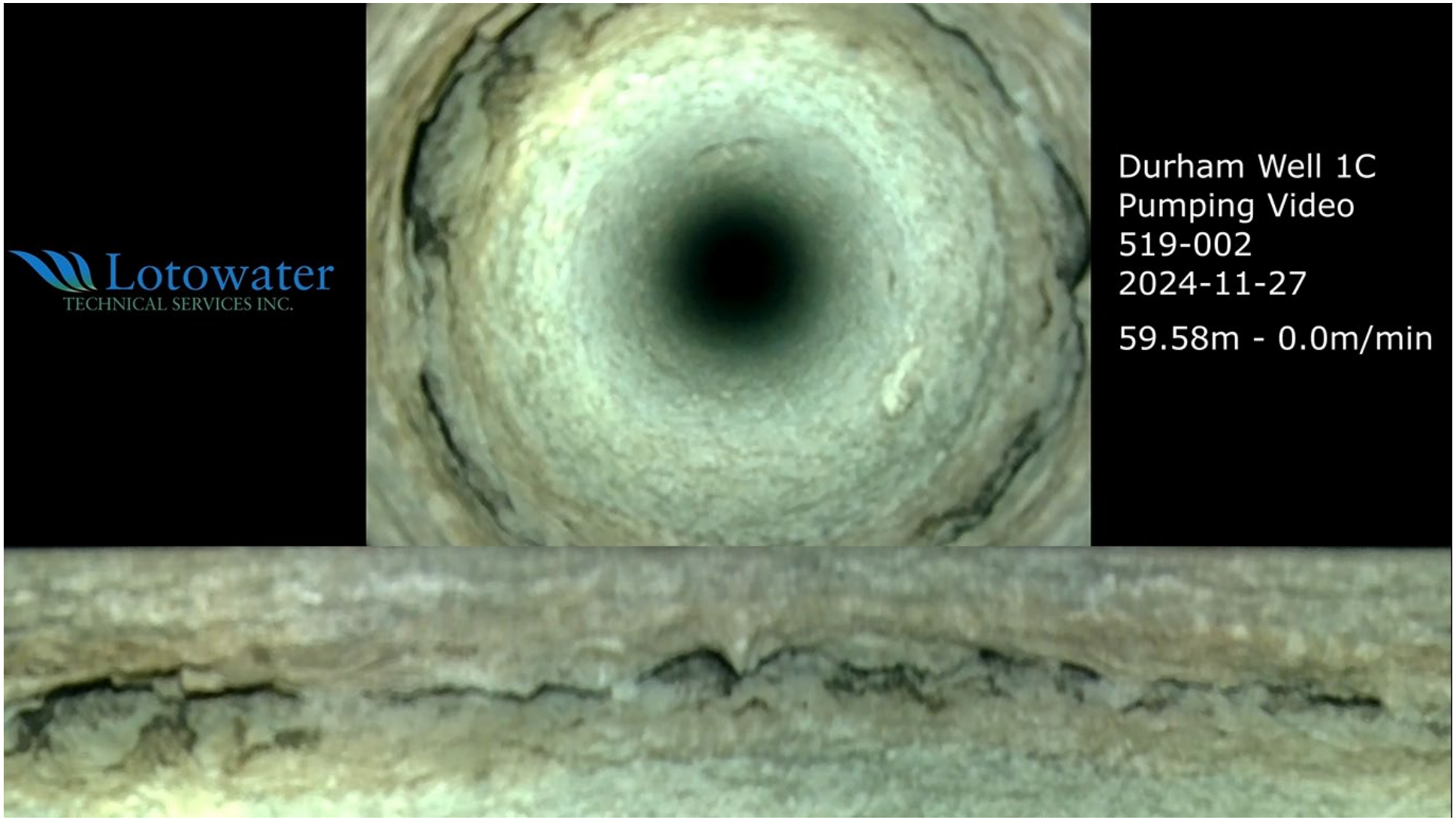
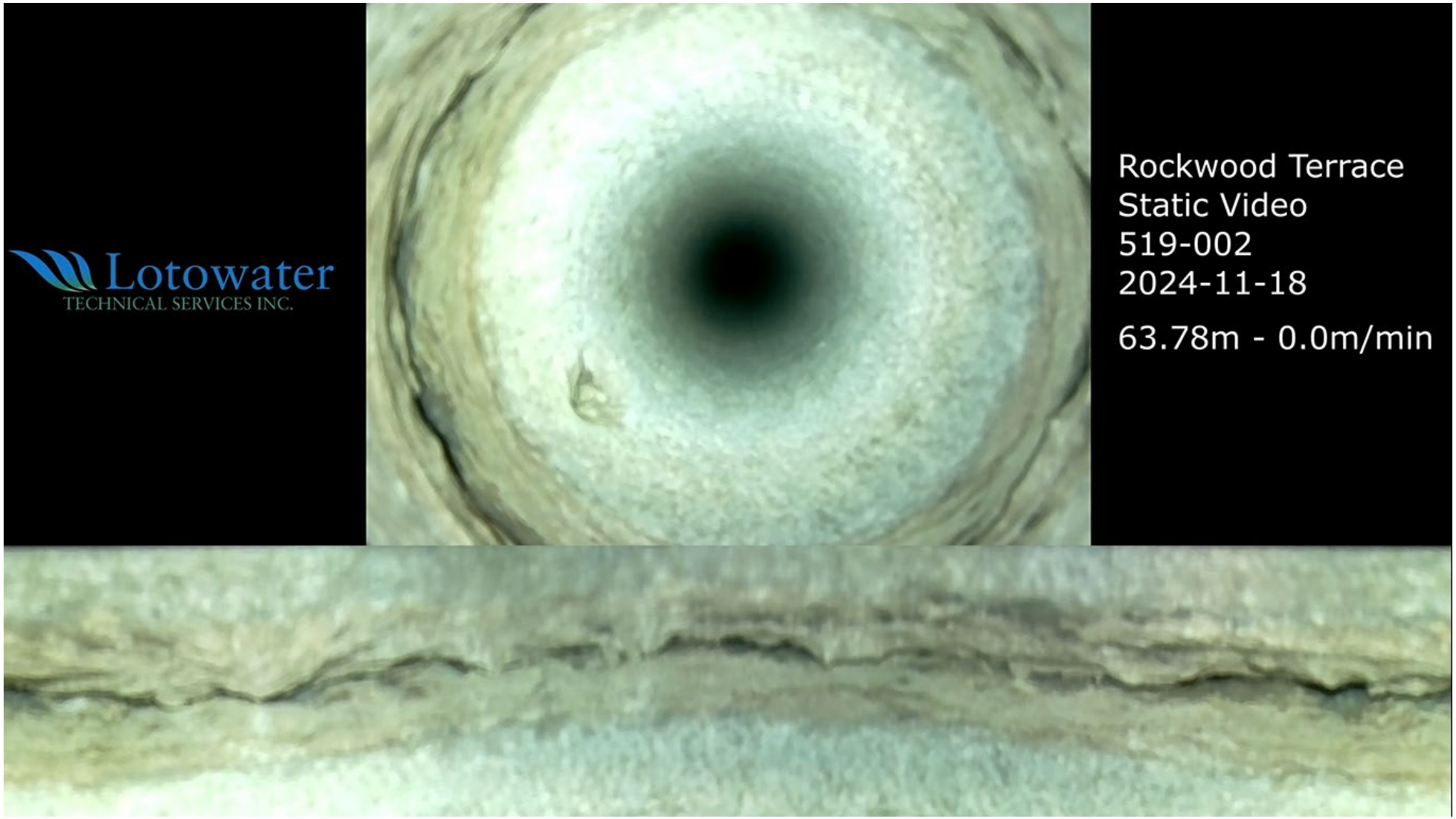
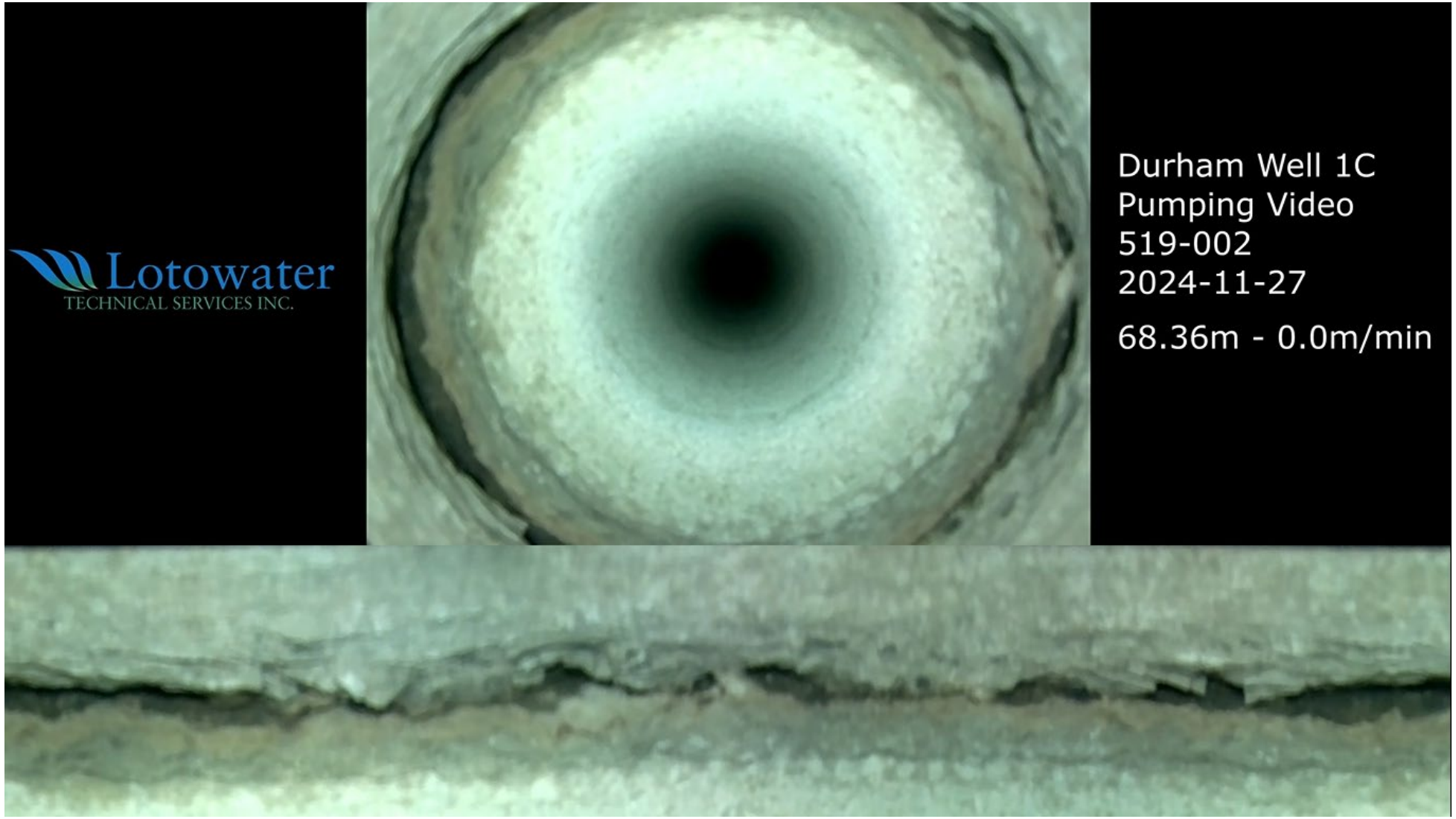


Reference: Aardvark Drilling Inc.

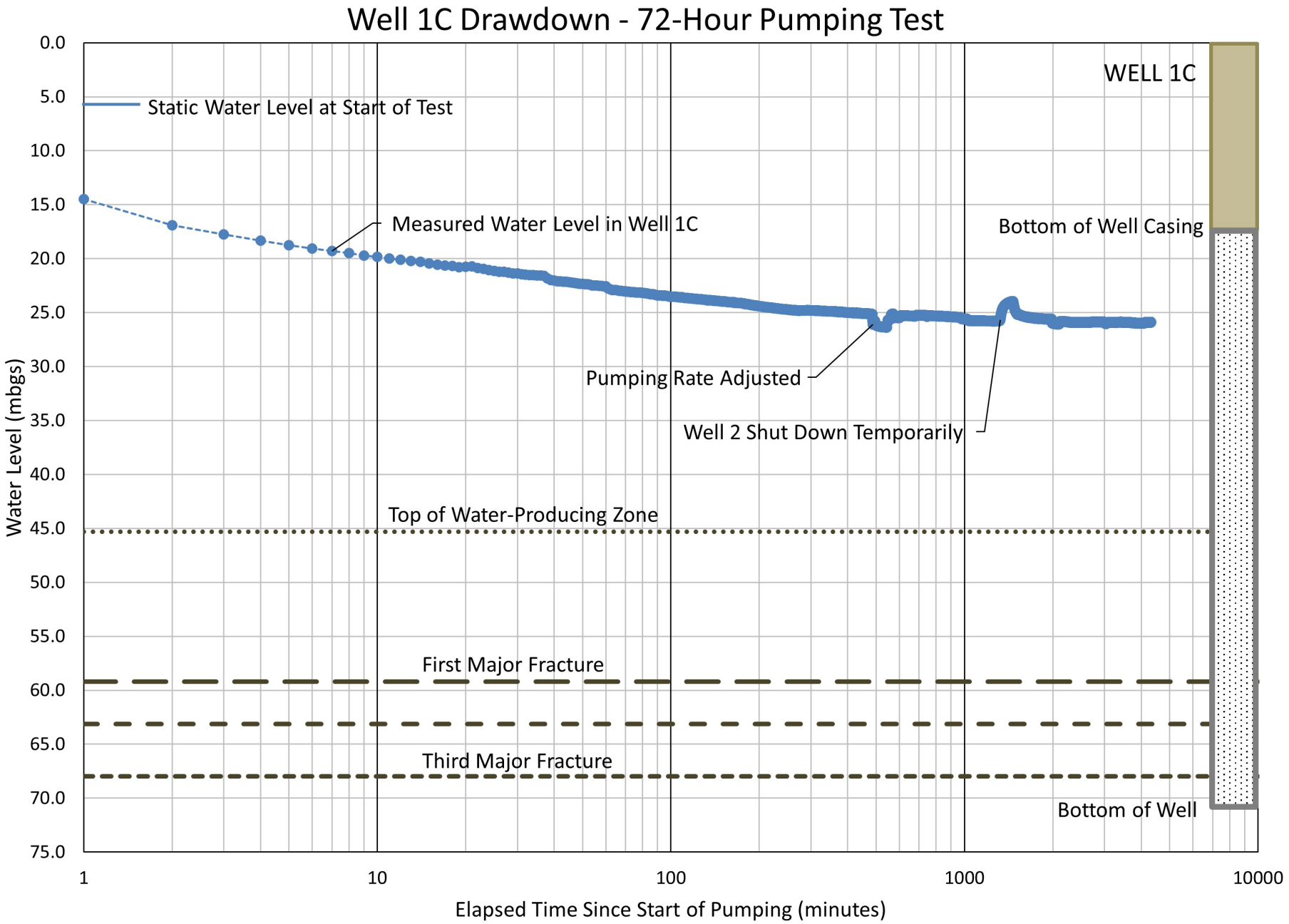

Lotowater
TECHNICAL SERVICES INC.
Durham Well 1C
Pumping Video
519-002
2024-11-27
59.58m - 0.0m/min

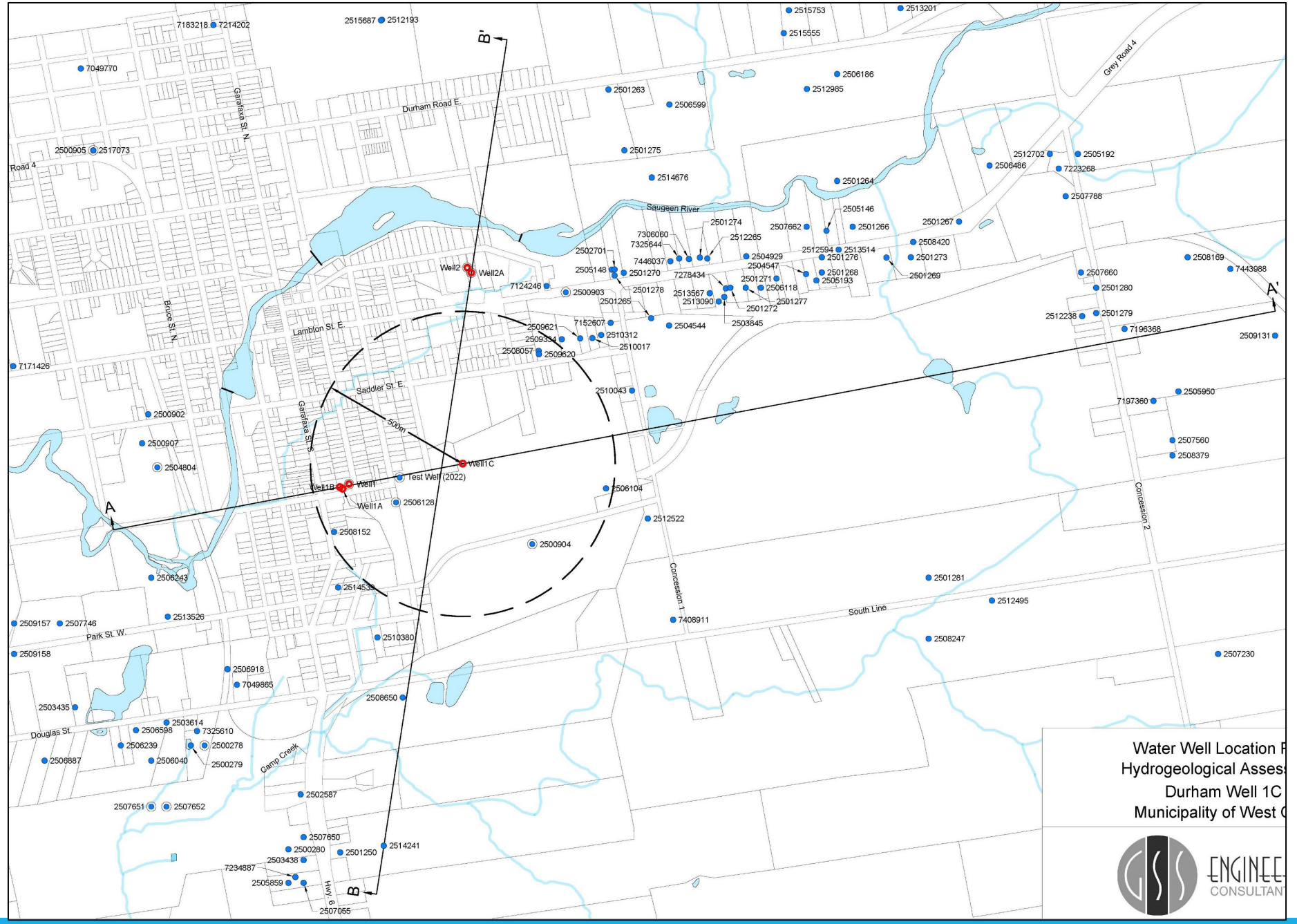

Lotowater
TECHNICAL SERVICES INC.
Rockwood Terrace
Static Video
519-002
2024-11-18
63.78m - 0.0m/min

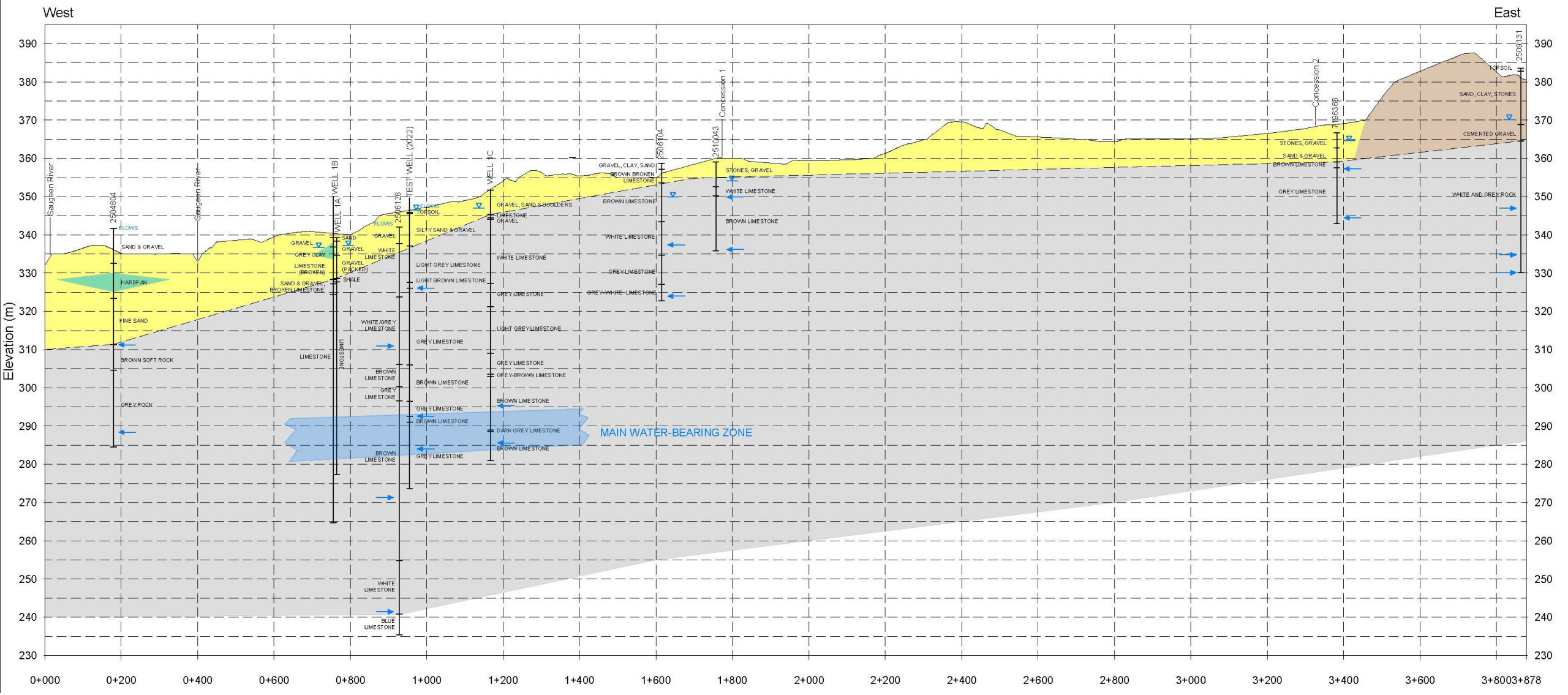

Lotowater
TECHNICAL SERVICES INC.
Durham Well 1C
Pumping Video
519-002
2024-11-27
68.36m - 0.0m/min

New Well Construction Program…Continued

- Long-term (72-hr) pumping test of Well 1C carried out in December 2024.
- Water levels continuously monitored in Well 1C, 2022 test well, and existing municipal wells.
- Notices distributed to nearest private well owners on Saddler St. E. and Concession 1 prior to test.
- No complaints of interference with private wells were received.
- Well records indicated that private wells obtained water from shallower zones in the bedrock.


Well 1C Drawdown - 72-Hour Pumping Test
WELL 1C
Static Water Level at Start of Test
Measured Water Level in Well 1C
Bottom of Well Casing
Pumping Rate Adjusted
Well 2 Shut Down Temporarily
Top of Water-Producing Zone
First Major Fracture
Third Major Fracture
Bottom of Well
Water Level (mbgs)
Elapsed Time Since Start of Pumping (minutes)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
55.0
60.0
65.0
70.0
75.0
1
10
100
1000
10000


Water Well Location P
Hydrogeological Assess
Durham Well 1C
Municipality of West G
ENGINEE
CONSULTAN


West
East
Elevation (m)
Saugeen River
Saugeen River
2504804
WELL 1A
WELL 1B
TEST WELL (2022)
2506128
WELL 1C
2506104
2510043
Concession 1
Concession 2
109636B
2509131
FLOWS
SAND & GRAVEL
HARDPAN
FINE SAND
BROWN SOFT ROCK
GREY ROCK
GRAVEL
GREY CLAY
LIMESTONE (BROKEN)
SAND & GRAVEL, BROKEN LIMESTONE
SHALE
LIMESTONE
SAND
GRAVEL
WHITE LIMESTONE
GRAVEL (PACKED)
TOPSOIL
SILTY SAND & GRAVEL
LIGHT GREY LIMESTONE
LIGHT BROWN LIMESTONE
WHITE/GREY LIMESTONE
GREY LIMESTONE
BROWN LIMESTONE
GREY LIMESTONE
BROWN LIMESTONE
BLUE LIMESTONE
GRAVEL, SAND & BOULDERS
LIMESTONE GRAVEL
WHITE LIMESTONE
GREY LIMESTONE
LIGHT GREY LIMESTONE
GREY LIMESTONE
GREY-BROWN LIMESTONE
BROWN LIMESTONE
DARK GREY LIMESTONE
BROWN LIMESTONE
GREY LIMESTONE
MAIN WATER-BEARING ZONE
GRAVEL, CLAY, SAND
BROWN BROKEN LIMESTONE
BROWN LIMESTONE
WHITE LIMESTONE
GREY LIMESTONE
GREY-WHITE LIMESTONE
STONES, GRAVEL
WHITE LIMESTONE
BROWN LIMESTONE
STONES, GRAVEL
SAND & GRAVEL
BROWN LIMESTONE
GREY LIMESTONE
TOP SOIL
SAND, CLAY, STONES
CEMENTED GRAVEL
WHITE AND GREY ROCK
390
380
370
360
350
340
330
320
310
300
290
280
270
260
250
240
230
0+000
0+200
0+400
0+600
0+800
1+000
1+200
1+400
1+600
1+800
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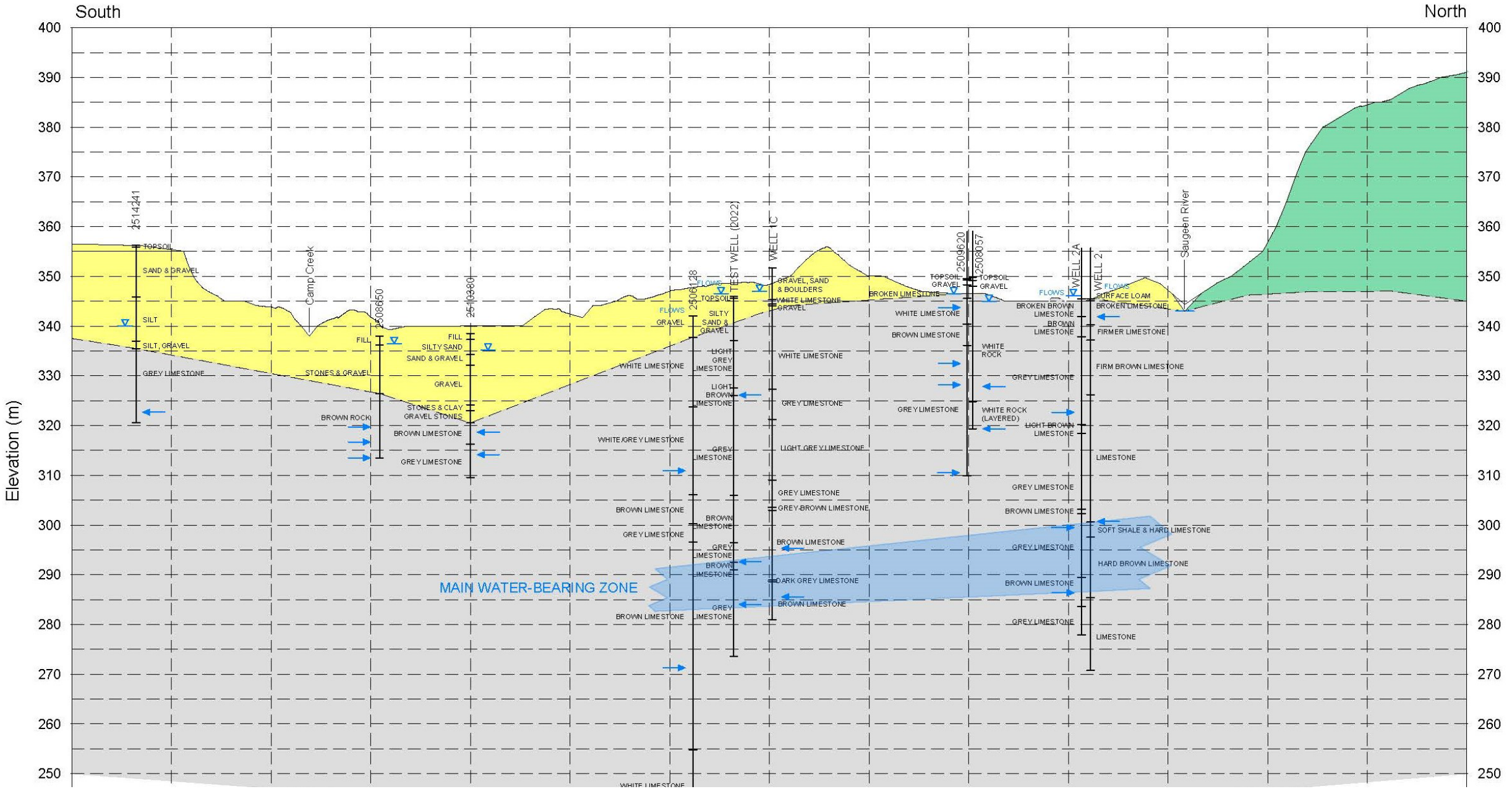
3+000
3+200
3+400
3+600
3+800
3+878


South
North
Elevation (m)
400
390
380
370
360
350
340
330
320
310
300
290
280
270
260
250
2514241
TOPSOIL
SAND & GRAVEL
SILT
SILT, GRAVEL
GREY LIMESTONE
Camp Creek
STONES & GRAVEL
2508650
FILL
BROWN ROCK
BROWN LIMESTONE
GREY LIMESTONE
2510380
FILL
SILTY SAND
SAND & GRAVEL
GRAVEL
STONES & CLAY
GRAVEL STONES
2506128
FLOWS
GRAVEL
TOPSOIL
SILTY SAND & GRAVEL
WHITE LIMESTONE
LIGHT GREY LIMESTONE
LIGHT BROWN LIMESTONE
WHITE/GREY LIMESTONE
GREY LIMESTONE
BROWN LIMESTONE
BROWN LIMESTONE
GREY LIMESTONE
GREY LIMESTONE
BROWN LIMESTONE
GREY LIMESTONE
WHITE LIMESTONE
TEST WELL (2022)
WELL 1C
GRAVEL, SAND & BOULDERS
WHITE LIMESTONE
GRAVEL
WHITE LIMESTONE
GREY LIMESTONE
LIGHT GREY LIMESTONE
GREY LIMESTONE
GREY-BROWN LIMESTONE
BROWN LIMESTONE
DARK GREY LIMESTONE
BROWN LIMESTONE
MAIN WATER-BEARING ZONE
2509620
2508057
TOPSOIL
GRAVEL
TOPSOIL
GRAVEL
BROKEN LIMESTONE
WHITE LIMESTONE
BROWN LIMESTONE
WHITE ROCK
GREY LIMESTONE
GREY LIMESTONE
WHITE ROCK (LAYERED)
BROWN LIMESTONE
WELL 2A
FLOWS
BROKEN BROWN LIMESTONE
BROWN LIMESTONE
LIGHT BROWN LIMESTONE
GREY LIMESTONE
BROWN LIMESTONE
GREY LIMESTONE
BROWN LIMESTONE
GREY LIMESTONE
WELL 2
FLOWS
SURFACE LOAM
BROKEN LIMESTONE
FIRMER LIMESTONE
FIRM BROWN LIMESTONE
LIMESTONE
SOFT SHALE & HARD LIMESTONE
HARD BROWN LIMESTONE
LIMESTONE
Saugeen River

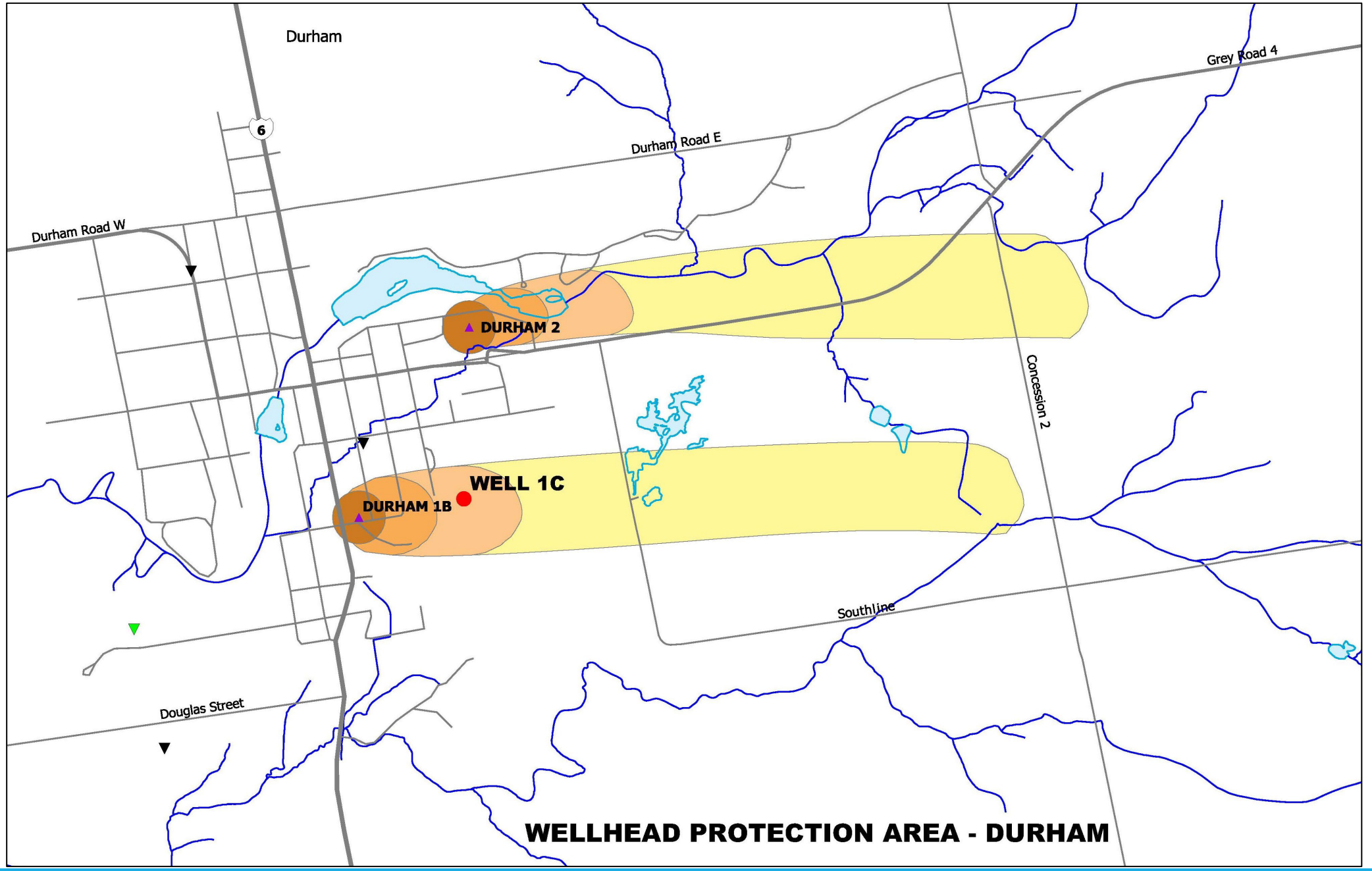
New Well Construction Program…Continued

- Monitoring showed strong hydraulic connection between Well 1C and Wells 2, 2A; subdued connection with Well 1B.
- Testing indicated Well 1C will sustainably yield water at the test rate of 2,160 m^3/day (330 Igpm).
- Alternative #5 meets Problem Definition Requirements.
- Alternative #5 is the Preliminary PREFERRED SOLUTION.

New Well Construction Program…Continued

Next Steps for Well 1C

- Complete hydrogeological assessment report to support application for Permit to Take Water.
- Update existing wellhead protection area under source water protection program, as necessary.


Durham
6
Durham Road E
Grey Road 4
Durham Road W
DURHAM 2
Concession 2
WELL 1C
DURHAM 1B
Southline
Douglas Street
WELLHEAD PROTECTION AREA - DURHAM

Water Treatment

- Water quality is similar to Well #2 and #2A.
- Raw water can be treated at Well #1B or #2 pumphouse.

Factors to Be Considered:

- Distance/length of raw watermain.
- Raw water quality issue during travel to pumphouse.
- Ability to accommodate additional equipment in pumphouse.
- Standby power.
- Site space restriction.

Alternative Design Concepts for Preferred Solution

Design Concepts include:

A) Construct new WTP building at Well #1C location.

B) Treatment of raw water at existing treatment plant at:

(i) Well #2 pumphouse, or

(ii) Well #1B pumphouse.

Design Concepts Highlights: Alternative A

- Will require new treatment plant building
- Building to accommodate cartridge filter, UV reactor
- New diesel generator for backup power.
- New PLC and control equipment.
- Most expensive Alternative.

Design Concepts Highlights: Alternative B

- Irrespective of Well #2 or Well #1B pumphouse raw watermain construction required.
- Expansion of treatment building is required.
- Additional cartridge filter and UV reactor are needed
- SCADA/PLC upgrades.
- Associated civil, electrical and mechanical upgrades

Design Concepts Highlights: Alternative B(i): Well #2 Pumphouse

Less desirable Alternative due to:

- Long length of raw watermain.
- Raw watermain construction is very expensive due to tearing apart of several existing streets.
- Possible raw water quality issues due to water stagnation.
- No room at site to expand building.

Design Concepts Highlights: Alternative B(ii): Well #1B Pumphouse

More desirable Alternative due to:

- Shorter length of raw watermain.
- Lesser or no issues due to water stagnation.
- Raw watermain construction relatively less expensive due to shorter distance.
- Lesser or no issues due to water stagnation.

Design Concepts Highlights: Alternative B(ii)…Continued

- Majority of construction on new road access to Rockwood Terrace
- Only one (1) existing street block will be disrupted.
- Building site is tight but better than Well #2 pumphouse site.

Screening of Alternative Design Concepts for Preferred Solution

ALTERNATIVE1.	DECISION	RATIONALE FOR NOT CARRYING FORWARD
Alternative A: New WTP Building	X	Most expensive option, but feasible.
Alternative B(i): Accommodate at Well #2 Pumphouse	X	Feasible but much more expensive than B(ii)
Alternative B(ii): Accommodate at Well #1B Pumphouse	✓	Feasible and least expensive
1. Do Nothing	✓	Carried forward-must be considered
2. Reduce Water Loss and Improve Conservation	✓	Carried forward – must be considered in conjunction with Alternative B(i)

Evaluation of Screened Alternative Design Concepts

Due to the advantages of Alternative B(ii), this Alternative was evaluated further for impact on:

- Public Health and Safety
- Natural Environment
- Social/Cultural/Legal Jurisdictional
- Economic/Financial
- Technical

Evaluation Criteria

Public Health and Safety

- Ability to comply with Provincial ODWQS

Natural Environment

- Potential effects to natural environment (air, land, water)
- Environmentally Sensitive Area
- ANSI (Areas of Natural & Scientific Interest)

Evaluation Criteria:
Natural Environment…Continued

- Woodlots
- Creeks
- Wetlands
- Wildlife and birds
- Vegetation
- Air Quality
- Groundwater

Evaluation Criteria…..Continued

Social/Cultural/Legal Jurisdictional

- Conformity with local, county and Provincial policies and guidelines:
  - Official Plan
  - Zoning by laws
  - Provincial Policy Statement
  - MECP Policies
- Potential Private Wells Interference

Evaluation Criteria:
Social/Cultural/Legal Jurisdictional…Continued

- Compatibility with Cultural/Heritage/Agricultural Resources:
  - Heritage Sites
  - Agricultural Lands
  - Archaeology, Native land claims and Indian Affairs
  - Aesthetics
  - Property requirements including negotiations and agreements

Evaluation Criteria ….Continued

Technical

- Capability, reliability, flexibility
- Utilization of existing infrastructure
- Operating complexity
- Construction issues-on and off site
- Approvals, implementation requirements

Evaluation Criteria ....Continued

Economic/Financial

- Capital cost
- Annual O & M costs

Evaluation of Alternative Solutions

Shortlist Alternative Solution	Public Health & Safety	Natural Environment	Evaluation Summary
	Ability to comply with ODWO, License & Permits	Potential Effects for Natural Environment:	Least Preferred ● ↓ ● Most Preferred ●
<u>Alternative 1</u> Do Nothing	✶ Non-Compliance if Growth Continues	✶ None	●
<u>Alternative B(ii)</u> New Groundwater Supply Well with Existing Well #1B Pumphouse	✶ Can comply with Ontario Drinking Water Standards	✶ Impact on Aquifer, <u>but</u> per Provincial Approval	●

Evaluation of Alternative Solutions…Continued

Shortlist Alternative Solution	Social/Cultural/Legal Jurisdictional		Evaluation Summary
	Conformity with local, county, provincial planning policies & guidelines	Potential land use impacts & cultural/heritage/agricultural resources	
<u>Alternative 1</u> Do Nothing	Incompatible with: ✶ Municipal goals and ✶ Provincial policies		
<u>Alternative B(ii)</u> New Groundwater Supply Well with Existing Well #1B Pumphouse	Will Meet: ✶ Provincial Policies ✶ MECP License & Permit	✶ Interference with Well #2 and #2A	

Evaluation of Alternative Solutions…Continued

Shortlist Alternative Solution	Technical			Evaluation Summary
	Capability, Reliability, flexibility	Implementation & Operability	Construction Issues & Approvals	
Alternative 1 Do Nothing	* Cannot meet capacity requirements	* None	* No construction impact	
Alternative B(ii) New Groundwater Supply Well with Existing Well #1B Pumphouse	* Will meet water supply requirements * Provides source redundancy	* Maximizes existing infrastructure use * Plant operation will not change significantly	* Construction impact limited to site * Some traffic impact * Construction impact minimal (with proper mitigation measures * Approvals under West Grey control	

Evaluation of Alternative Solutions…Continued

Shortlist Alternative Solutions	Public Health & Safety and Natural Environment	Social/Cultural Legal Jurisdictional	Technical	Overall
Alt # 1	●	●	●	●
Alt # B(ii)	●	●	●	●

PRELIMINARY RECOMMENDED ALTERNATIVE B(ii)

Involves:

- Construction of raw watermain from Well #1C to #1B pumphouse.
- Standby power for Well #1C from #1B pumphouse diesel generator.
- Chlorination facility at Well #1C pumphouse.
- Additional cartridge filter and UV reactor for Well #1C.

Also:

- Continue program to reduce watermain losses.

MUNICIPALITY OF West Grey
nestled in nature

Thank You
Comment Sheets
Questions?????

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