



OLIPHANT DRINKING WATER SYSTEM
Physical Address: 7 FIDDLEHEAD LANE, , SOUTH
BRUCE PENINSULA, ON N0H
2T0

INSPECTION REPORT

Entity: ONTARIO CLEAN WATER
AGENCY
THE CORPORATION OF THE
TOWN OF SOUTH BRUCE
PENINSULA
Inspection Start Date: July 17, 2024
Site Inspection Date: July 17, 2024
Inspection End Date: July 18, 2024
Inspected By: Robert Graham
Badge #: 1667



(signature)

INTRODUCTION

Purpose

This announced, focused inspection was conducted to confirm compliance with Ministry of the Environment, Conservation and Parks' (MECP) legislation and conformance with ministry drinking water policies and guidelines.

Scope

The ministry utilizes a comprehensive, multi-barrier approach in the inspection of water systems that focuses on the source, treatment, and distribution components as well as management and the operation of the system. The inspection of the drinking water system (DWS) included both the physical inspection of the component parts of the system listed in section 4 "Systems Components" of the report and the review of data and documents associated with the operation of the DWS during the review period.

This DWS is subject to the legislative requirements of the Safe Drinking Water Act, 2002 (SDWA) and regulations made therein, including Ontario Regulation 170/03, "Drinking Water Systems" (O. Reg. 170/03). This inspection has been conducted pursuant to Section 81 of the SDWA. This inspection report does not suggest that all applicable legislation and regulations were evaluated. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

Facility Contacts and Dates

The Oliphant DWS is a Small Municipal Residential DWS owned by the Corporation of the Town of South Bruce Peninsula (Owner) and operated by the Ontario Clean Water Agency (OCWA/Operating Authority/OA). At the time of the inspection, drinking water was being transported from the Wiarton Water Treatment Plant to the pumphouse and the Oliphant DWS was operating as a storage reservoir and a re-chlorination station.

Information reviewed for this inspection covered the time period of July 21, 2023, the day following the previous inspection, to the inspection date on July 17, 2024. MECP Water Compliance Officer Bob Graham, and MECP summer students Darryl Blair and Sophia Fairbairn met with OCWA staff members, Senior Operations Manager, Leo-Paul Frigault, Process & Compliance Technician, Karla Young and Operator, Cole Hutchinson, as part of the inspection process.

Systems/Components

The DWWP components associated with primary disinfection were not in use at the time of inspection and the Oliphant DWS was operating as a storage reservoir and a re-chlorination

station. However, the following system components, as documented in the DWWP, were visited as part of the inspection of the drinking water system:

The Oliphant Drinking Water System, located at 7 Fiddlehead Lane (UTM Coordinates NAD 83: UTM Zone 17, 478305.00 m E., 4953547.00 m N.), consisting of two (2) wells, a treatment plant building housing chlorination equipment and facilities, pressure adsorption clarifier, filtration treatment system for iron and organic carbon removal, UV, high lift pumps, secondary disinfection using ammonium sulphate, process piping and valves, instrumentation and control systems, one underground storage reservoir and approximately 2.8 kilometers of distribution water mains. In addition, there are facilities to truck water from the Warton Drinking Water System. Drinking water to supply the Oliphant Drinking Water System is currently being transported from the Warton Drinking Water System's bulk drinking water station situated at 897 Bayview Street across from the Warton Water Treatment Plant.

Permissions/Approvals

This drinking water system was subject to specific conditions contained within the following permissions and/or approvals at the time of the inspection, in addition to the requirements of the SDWA and its regulations (please note this list is not exhaustive):

- Municipal Drinking Water Licence, Number: 094-105, Issue Number: 5, dated March 6, 2020.,
- Drinking Water Works Permit, Permit Number: 094-205, Issue Number: 4, dated March 6, 2020,
- As a transported water system, the Oliphant DWS Permit To Take Water has expired and was not renewed by the Owner.

Background and Compliance

At the time of the inspection drinking water was being transported from the Warton Water Treatment Plant to the pumphouse and the Oliphant DWS was operating as a storage reservoir and a re-chlorination station. Previous to the use of a transported water system, in an effort to reduce trihalomethanes (THMs) in the distribution system, the Oliphant water treatment plant switched to chloramination for secondary disinfection. The chloraminated water was stored in the clearwells and was also being used to backwash the filters. It became apparent after the 2010/2011 MECP DWS inspection of the DWS that the use of chloraminated water to backwash the filters was interfering with the disinfection process. Given that the Owner could not demonstrate that adequate disinfection was being achieved the decision to use transported water from the Warton drinking water system was put in place and transported water continues at this time.

Ontario Regulation 170/03 Section 5 Exemptions: residential systems gives Oliphant DWS relief from sampling nitrate and nitrite, sodium, fluoride, inorganic and organics while transporting

water. During the inspection review time period there were no Adverse Water Quality Incidents (AWQIs) reported to the MECP Spills Action Centre.

NON-COMPLIANCE

This should not be construed as a confirmation of full compliance with all potential applicable legal requirements. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

RECOMMENDATIONS

This should not be construed as a confirmation of full conformance with all potential applicable BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

INSPECTION DETAILS

This section includes all questions that were assessed during the inspection.

Ministry Program: DRINKING WATER | **Regulated Activity:** DW Municipal Residential

Question ID	DWMR1007001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 1-2 (1)1;			
Question: Was the owner maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials?			
Compliance Response(s)/Corrective Action(s)/Observation(s): The owner was maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials. At the time of the inspection the production wells were not in use and drinking water was being transported from the Warton Water Treatment Plant to the pumphouse and the Oliphant DWS was operating as a storage reservoir and a re-chlorination station. A visual assessment of the above-ground portions of the well(s) determined that the owner is maintaining the well(s) in a manner sufficient to prevent the entry of surface water and other foreign materials as prescribed in the Wells Regulation and Schedule 1 of O. Reg. 170/03.			

Question ID	DWMR1009001	Question Type	Legislative
Legislative Requirement(s): SDWA 31 (1);			
Question: Were measures in place to protect the groundwater and/or GUDI source in accordance with the Municipal Drinking Water Licence and Drinking Water Works Permit?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Measures were in place to protect the groundwater and/or GUDI source.			

Question ID	DWMR1014001	Question Type	Legislative
Legislative Requirement(s): SDWA 31 (1);			
Question: Was flow monitoring performed as required by the Municipal Drinking Water Licence or Drinking Water Works Permit?			

Compliance Response(s)/Corrective Action(s)/Observation(s):

Flow monitoring was performed as required.

The Municipal Drinking Water Licence (MDWL) for the Oliphant DWS (Licence Number 094-105, Issue Number 5) requires monitoring and recording of flow rate and the daily volume of water conveyed into the treatment system and conveyed into the distribution system. Transported water is currently delivered directly into the clearwell so monitoring of flow rate into the treatment system is not necessary. The operating authority continues to monitor and record flow rate and the daily volume of water conveyed into the distribution system.

Question ID	DWMR1016001	Question Type	Legislative
Legislative Requirement(s): SDWA 31 (1);			
Question: Was the owner in compliance with the conditions associated with maximum flow rate or the rated/operational capacity in the Municipal Drinking Water Licence?			
Compliance Response(s)/Corrective Action(s)/Observation(s): The owner was in compliance with the conditions associated with maximum flow rate and/or the rated/operational capacity conditions. The MDWL for the Oliphant drinking water system requires monitoring and recording of flow rate and the daily volume of water conveyed into the treatment system and conveyed into the distribution system. Transported water is currently delivered directly into the clearwell so monitoring of flow rate into the treatment system is not necessary. The operating authority continues to monitor and record flow rate and the daily volume of water conveyed into the distribution system.			

Question ID	DWMR1018001	Question Type	Legislative
Legislative Requirement(s): SDWA 31 (1);			
Question: Did the owner ensure that equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?			
Compliance Response(s)/Corrective Action(s)/Observation(s): The owner ensured that equipment was installed as required. At the time of inspection the Oliphant DWS was receiving transported water from the Wiarnton DWS. Selected equipment was maintained for operation including the high lift pumps, the reservoir/clearwell, the trim chlorination system, analyzers, SCADA system and the back-up power supply system.			

Question ID	DWMR1024001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 1-2 (2);			
Question: Did records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required.			

Question ID	DWMR1034001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 7-2 (5); SDWA O. Reg. 170/03 7-2 (6);			
Question: Was secondary disinfectant residual tested as required for the small municipal residential distribution system?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Secondary disinfectant residual was tested as required. Subsection 7-2 (5) of schedule 7, O.Reg.170/03 the owner of a small municipal residential system that provides secondary disinfection and the operating authority for the system shall ensure that at least two distribution samples are taken each week in accordance with subsection (6) and are tested immediately for, (a) free chlorine residual. Records provided by the owner and reviewed during the inspection indicate that the owner complied with these requirements, testing free chlorine residual for secondary disinfection monitoring purposes 2 days each week and at least 48 hours apart.			

Question ID	DWMR1035001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)1-4;			
Question: Were operators examining continuous monitoring test results and did they examine the results within 72 hours of the test?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Operators were examining continuous monitoring test results as required.			

Question ID	DWMR1038001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)1-4;			
Question: Was continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements performing tests for the parameters with at least the minimum frequency and recording data with the prescribed format?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements was performing tests for the parameters with at least the minimum frequency and recording data with the prescribed format.			

Question ID	DWMR1037001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)5-10; SDWA O. Reg. 170/03 6-5 (1.1);			
Question: Were all continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or Municipal Drinking Water Licence or Drinking Water Works Permit or order, equipped with alarms or shut-off mechanisms that satisfied the standards described in Schedule 6?			
Compliance Response(s)/Corrective Action(s)/Observation(s): All required continuous monitoring equipment utilized for sampling and testing were equipped with alarms or shut-off mechanisms that satisfied the standards The distribution water chlorine analyzer has a low, low alarm set point of 0.50 mg/L and a high, high alarm setpoint of 2.0 mg/L, which if triggered notifies operators via an alarm dialer and locks out the high lift pumps. Should the chlorine analyzer read 1.26 mg/L concentration in the clearwell(s) a trim chlorinator is activated to increase chlorine concentration in the clearwell(s).			

Question ID	DWMR1040001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)1-4; SDWA O. Reg. 170/03 6-5 (1)5-10;			
Question: Were all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?			
Compliance Response(s)/Corrective Action(s)/Observation(s): All continuous analysers were calibrated, maintained, and operated as required.			

Question ID	DWMR1108001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 6-5 (1)5-10; SDWA O. Reg. 170/03 6-5 (1.1);			
Question: Where continuous monitoring equipment used for the monitoring of free chlorine residual, total chlorine residual, combined chlorine residual or turbidity, required by O. Reg. 170/03, Municipal Drinking Water Licence, Drinking Water Works Permit, or order triggered an alarm or an automatic shut-off, did a qualified person respond as required and take appropriate actions?			
Compliance Response(s)/Corrective Action(s)/Observation(s): A qualified person responded as required and took appropriate actions.			

Question ID	DWMR1099001	Question Type	Information
Legislative Requirement(s): Not Applicable			
Question: Do records show that water provided by the drinking water system met the Ontario Drinking Water Quality Standards?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Records showed that all water sample results met the Ontario Drinking Water Quality Standards.			

Question ID	DWMR1082001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 11-2 (1); SDWA O. Reg. 170/03 11-2 (2); SDWA O. Reg. 170/03 11-2 (6);			
Question: Were distribution microbiological sampling requirements prescribed by Schedule 11-2 of O. Reg. 170/03 for small municipal residential systems met?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Distribution microbiological sampling requirements were met. For SMR DWS, distribution bacteriological samples shall be taken: 1) once every 2 weeks provided that the system is in compliance with Schedule 1 of O.Reg. 170/03, or 2) one sample every week if the system does not meet the requirements of Schedule 1 of O.			

Reg.170/03.

Each sample must be tested for EC + TC and, if secondary disinfection is provided, must also be tested for HPC.

Question ID	DWMR1096001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 6-3 (1);			
Question: Did records confirm that chlorine residual tests were conducted at the same time and location as microbiological samples?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Records confirmed that chlorine residual tests were conducted as required.			

Question ID	DWMR1086001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 13-6.1 (1); SDWA O. Reg. 170/03 13-6.1 (2); SDWA O. Reg. 170/03 13-6.1 (3); SDWA O. Reg. 170/03 13-6.1 (4); SDWA O. Reg. 170/03 13-6.1 (5); SDWA O. Reg. 170/03 13-6.1 (6);			
Question: Were haloacetic acid sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Haloacetic acid sampling requirements were met. Section 13-6.1 (1) of Schedule 13, O.Reg.170/03 requires the Owner and the Operating Authority to ensure that at least one distribution sample is taken every 3 months from a point in the drinking water system's distribution system that is connected to the drinking water system, that is likely to have an elevated potential for the formation of Haloacetic Acids (HAA), and tested for HAAs. Section 6-1.1 of Schedule 6, O.Reg.170/03 requires that these samples be taken at least 60 days, and not more than 120 days, after a sample was taken for that purpose in the previous three month period. The standard for Haloacetic Acids is 80 ug/L, expressed as a Running Annual Average (RAA), where the RAA is defined as the average for quarterly HAA results for a drinking water system. The required sampling for the inspection period was completed and the RAA results were below the O. Reg. 169/03 standard of 80 ug/L.			

Question ID	DWMR1087001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 13-6 (1); SDWA O. Reg. 170/03 13-6 (2); SDWA O. Reg.			

170/03 | 13-6 | (3); SDWA | O. Reg. 170/03 | 13-6 | (4); SDWA | O. Reg. 170/03 | 13-6 | (5); SDWA | O. Reg. 170/03 | 13-6 | (6);

Question:

Were trihalomethane sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Trihalomethane sampling requirements were met.

Section 13-6 of Schedule 13, O.Reg.170/03 requires the Owner and the Operating Authority to ensure that at least one distribution sample is taken every 3 months from a point in the drinking water system's distribution system, or in plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of Trihalomethanes (THMs), and tested for THMs. Section 6-1.1 of Schedule 6, O.Reg.170/03 requires that these samples be taken at least 60 days, and not more than 120 days, after a sample was taken for that purpose in the previous three month period. The standard for THMs is 100 µg/L, expressed as a Running Annual Average (RAA), where the RAA is defined as the average for quarterly THM results for a drinking water system. The required sampling for the inspection time period was completed and the RAA results were below the O.Reg. 169/03 standard of 100 ug/L.

Question ID	DWMR1060001	Question Type	Legislative
Legislative Requirement(s): SDWA 31 (1);			
Question: Did the operations and maintenance manual(s) meet the requirements of the Municipal Drinking Water Licence?			
Compliance Response(s)/Corrective Action(s)/Observation(s): The operations and maintenance manual(s) met the requirements of the Municipal Drinking Water Licence.			

Question ID	DWMR1062001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 7-5;			
Question: Did records or other record keeping mechanisms confirm that operational testing not performed by continuous monitoring equipment was done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was done by a certified operator, water			

quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03.

Question ID	DWMR1071001	Question Type	BMP
Legislative Requirement(s): Not Applicable			
Question: Did the owner provide security measures to protect components of the drinking water system?			
Compliance Response(s)/Corrective Action(s)/Observation(s): The owner provided security measures to protect components of the drinking water system. The pump house and treatment facility has lockable doors equipped with an intruder alarm. The drilled wells were locked and signage restricts access to the site. At the time of inspection there was no apparent visual evidence of unauthorized access/vandalism and no reports of cyber security issues.			

Question ID	DWMR1073001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 128/04 23 (1);			
Question: Was an overall responsible operator designated for all subsystems which comprise the drinking water system?			
Compliance Response(s)/Corrective Action(s)/Observation(s): An overall responsible operator was designated for all subsystem.			

Question ID	DWMR1074001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 128/04 25 (1);			
Question: Were operators-in-charge designated for all subsystems which comprise the drinking water system?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Operators-in-charge were designated for all subsystems.			

Question ID	DWMR1075001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 128/04 22;			
Question: Were all operators certified as required?			
Compliance Response(s)/Corrective Action(s)/Observation(s): All operators were certified as required.			

Question ID	DWMR1076001	Question Type	Legislative
Legislative Requirement(s): SDWA O. Reg. 170/03 1-2 (2);			
Question: Were adjustments to the treatment equipment only made by certified operators?			
Compliance Response(s)/Corrective Action(s)/Observation(s): Adjustments to the treatment equipment were only made by certified operators.			

Ministry of the Environment, Conservation and Parks - Inspection Summary Rating Record (Reporting Year - 2024-25)

DWS Name:	OLIPHANT DRINKING WATER SYSTEM
DWS Number:	220007695
DWS Owner:	THE CORPORATION OF THE TOWN OF SOUTH BRUCE PENINSULA
Municipal Location:	SOUTH BRUCE PENINSULA
Regulation:	O.REG. 170/03
DWS Category:	DW Municipal Residential
Type of Inspection:	Focused
Compliance Assessment Start Date:	Jul-17-2024
Ministry Office:	Owen Sound District Office

Maximum Risk Rating: 312

Inspection Module	Non Compliance Risk (X out of Y)
Capacity Assessment	0/30
Certification and Training	0/42
Logbooks	0/14
Operations Manuals	0/14
Reporting & Corrective Actions	0/21
Source	0/14
Treatment Processes	0/126
Water Quality Monitoring	0/51
Overall - Calculated	0/312

Inspection Risk Rating:	0.00%
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Final Inspection Rating:	100.00%
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Ministry of the Environment, Conservation and Parks - Detailed Inspection Rating Record (Reporting Year - 2024-25)

DWS Name:	OLIPHANT DRINKING WATER SYSTEM
DWS Number:	220007695
DWS Owner Name:	THE CORPORATION OF THE TOWN OF SOUTH BRUCE PENINSULA
Municipal Location:	SOUTH BRUCE PENINSULA
Regulation:	O.REG. 170/03
DWS Category:	DW Municipal Residential
Type of Inspection:	Focused
Compliance Assessment Start Date:	Jul-17-2024
Ministry Office:	Owen Sound District Office

All legislative requirements were met. No detailed rating scores.

Maximum Question Rating: 312

Inspection Risk Rating:	0.00%
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FINAL INSPECTION RATING:	100.00%
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Key Reference and Guidance Material for Municipal Residential Drinking Water Systems

Many useful materials are available to help you operate your drinking water system. Below is a list of key materials owners and operators of municipal residential drinking water systems frequently use.

To access these materials online click on their titles below or use your web browser to search for their titles. Contact the Ministry if you need assistance or have questions at 1-866-793-2588 or waterforms@ontario.ca.

For more information on Ontario's drinking water visit www.ontario.ca/page/drinking-water



Click on the publication below to access it

- [Drinking Water System Profile Information Form - 012-2149E](#)
- [Laboratory Services Notification Form – 012-2148E](#)
- [Adverse Test Result Notification Form – 012-4444E](#)
- [Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils](#)
- [Procedure for Disinfection of Drinking Water in Ontario](#)
- [Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids](#)
- [Filtration Processes Technical Bulletin](#)
- [Ultraviolet Disinfection Technical Bulletin](#)
- [Guide for Applying for Drinking Water Works Permit Amendments, & License Amendments](#)
- [Certification Guide for Operators and Water Quality Analysts](#)
- [Training Requirements for Drinking Water Operator](#)
- [Community Sampling and Testing for Lead: Standard and Reduced Sampling and Eligibility for Exemption](#)
- [Drinking Water System Contact List – 7128E01](#)
- [Ontario's Drinking Water Quality Management Standard - Pocket Guide](#)
- [2020 Watermain Disinfection Procedure](#)
- [List of Licensed Laboratories](#)