

Ministry of the
Environment,
Conservation and Parks

Drinking Water and
Environmental
Compliance Division
West Central Region
Guelph District Office
1 Stone Road West
4th Floor
Guelph, Ontario N1G
4Y2 Tel.: 519 826-4255
Fax: 519 826-4286

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

Division de la conformité en
d'eau potable et
d'environnement Direction
régionale du Centre-Ouest
Bureau de district de Guelph
1, chemin Stone ouest
4 e étage
Guelph (Ontario) N1G 4Y2
Tél.: 519 826-4255
Télééc: 519 826-4286



July 4, 2022

Township of North Wellington
7480 Sideroad 7 W, PO Box 125
Kenilworth, Ontario N0G
2E0

****sent via email****

Attention: Matthew Aston, Director of Operations

Re: Mount Forest Wastewater Treatment Plant Inspection Report

On June 2, 2022, the Mount Forest Wastewater Treatment Plant was inspected by the Ministry of the Environment, Conservation and Parks.

Please find attached a copy of the Inspection Report #1-1V1150.

If you wish to discuss the results of the inspection in more detail, please feel free to contact me at (519) 837-7457.

Yours truly,

Signature: (Provincial Officer)

A handwritten signature in black ink, appearing to read "CS", written over a faint, larger signature.

Carola Serwotka
Provincial Officer
Drinking Water and Environmental Compliance Division
Guelph District Office West
Central Region

c.c.

Don Irvine, Senior Operations Manager, OCWA (email)
Melissa Irvine, PCT, OCWA (email)
Saugeen CA (email), Guelph District Office,
File: SI WE WN CO
Electronic File



Mount Forest Water Pollution Control Plant
651 CORK ST, WELLINGTON NORTH, ON, N0G 2E0

Inspection Report

System Number: 120001381

Entity: ONTARIO CLEAN WATER
AGENCY

THE CORPORATION OF THE
TOWNSHIP OF WELLINGTON
NORTH

Inspection Start Date: 06/02/2022

Inspection End Date: 06/23/2022

Inspected By: Carola Serwotka

Badge #: 808

Signature: (Provincial Officer)



NON-COMPLIANCE/NON-CONFORMANCE ITEMS

This should not be construed as a confirmation of full compliance with all potential applicable legal requirement and 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: SEWAGE | **Regulated Activity:**

Question ID	940010	Question Type	Information
Question: What was the scope of this inspection?			
Legislative Requirement	Not Applicable		
Observation			
<p>The primary focus of this inspection is to confirm compliance with Ministry of the Environment, Conservation and Parks (MECP) legislation as well as evaluating conformance with ministry policies and guidelines during the inspection period. This wastewater treatment system is subject to the legislative requirements of the Ontario Water Resources Act (OWRA) and the Environmental Protection Act (EPA) and regulations made therein. This inspection has been conducted pursuant to Section 15 of the OWRA and Section 156 of the EPA. 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. The physical inspection of the Mount Forest WPCP took place on June 2, 2022 with the main operator and a senior manager from OCWA. This conventional activated sludge plant is a Class II WPCP with a design capacity of 2,818 m³/d and was constructed in 2008. The waste activated sludge (WAS) is stored and processed on site. WAS is also received from the Arthur WPCP. Sludge treatment is by five aeration tanks and has a total storage volume of 3,951 m³. Final effluent is treated with sand filtration and UV disinfection and discharges to the South Saugeen River and eventually Lake Huron. When high flow events occur, bypass/overflow wastewater is treated with chlorination.</p> <p>This plant is undergoing a review for re-rating of the design capacity.</p> <p>The inspection period was June 1, 2017 to June 2, 2022.</p>			

Question ID	940100	Question Type	Legislative
Question: Does a valid Environmental Compliance Approval(s) exist for the facility?			
Legislative Requirement	OWRA 53 (1); OWRA 53 (2);		
Observation			

The owner had a valid Environmental Compliance Approval for the sewage works. Certificate of Approval #6134-73FHHU was issued June 19, 2007 for the Mount Forest WPCP and the North Street Pumping Station (old sewage treatment plant).

Question ID	940300	Question Type	Information
Question: Are there any orders or other control documents that have requirements outside of (or differing from) the Environmental Compliance Approval requirements?			
Legislative Requirement	Not Applicable		
Observation			
The facility has Orders or other control documents that have requirements outside of the ECA. There are three other pumping stations and associated Certificates of Approval (CofA): Cork Street - #2342-82GPAM (includes Generator) Durham Street - #1899-873P7E (includes Generator) Perth Street - #1843-98-006 (no Generator)			

Question ID	940750	Question Type	Legislative
Question: If there were any new works installed, has the owner of the sewage works prepared a written statement certified by a Professional Engineer confirming that the proposed works were constructed in accordance with the Environmental Compliance Approval?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The owner of the sewage works had prepared a written statement certified by a Professional Engineer confirming that the proposed works were constructed in accordance with the Environmental Compliance Approval.			

Question ID	941201	Question Type	Legislative
Question: Has the owner ensured that all equipment/components associated with the works have been installed in accordance with the Environmental Compliance Approval?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		

Observation
The owner had ensured that all equipment/components associated with the works was installed in accordance with the Environmental Compliance Approval.

Question ID	940451	Question Type	BMP
Question:			
Was the annual average daily flow below 80% of the rated capacity of the sewage works?			
Legislative Requirement	Not Applicable		
Observation			
The annual average daily flow was not approaching the rated capacity of the sewage works. According to the 2021 Mount Forest WPCP Annual Performance report, the 2021 annual average was 1,990 m3/d or 70 % of the design capacity of 2,818 m3/d. Also, in summary: 2020 - 1,937 m3/d or 69 % of 2,818 m3/d. 2019 - 1,960 m3/d or 70 % of 2,818 m3/d. 2018 - 2,043 m3/d or 73 % of 2,818 m3/d. 2017 - 2,234 m3/d or 84 % of 2,818 m3/d. 2016 - 1,948 m3/d or 69 % of 2,818 m3/d. 2015 - 1,746 m3/d or 62 % of 2,818 m3/d.			

Question ID	940800	Question Type	Legislative
Question:			
Are the flow measuring devices installed, calibrated and maintained in accordance with the requirements of the Environmental Compliance Approval?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
Flow measuring devices were installed, calibrated and maintained in accordance with the requirements of the Environmental Compliance Approval. Flow monitoring devices are calibrated annually.			

Question ID	941100	Question Type	Legislative
Question:			
Are all monitoring equipment other than flow monitoring devices installed, calibrated and maintained in accordance with any Environmental Compliance Approval?			

Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);
Observation	
All monitoring equipment other than flow monitoring devices were installed, calibrated and maintained in accordance with any Environmental Compliance Approval.	

Question ID	941950	Question Type	Information
Question:			
Was the sewage works in compliance with the effluent concentration limits/criteria for all parameters listed in the Environmental Compliance Approval, Ministry Order or guideline?			
Legislative Requirement	Not Applicable		
Observation			
The sewage works was in compliance with the concentration limits/criteria for all parameters reviewed.			

Question ID	942050	Question Type	Legislative
Question:			
Was the sewage works in compliance with the effluent BOD5/CBOD5 concentration limits or criteria listed in the Environmental Compliance Approval, an Order, or Ministry Guidelines?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The sewage works was in compliance with the effluent BOD5/CBOD5 concentration limits or criteria during the review period. The cBOD5 concentration limit is 12.5 mg/L.			

Question ID	942150	Question Type	Legislative
Question:			
Was the sewage works in compliance with the effluent total suspended solids concentration limits or criteria listed in by the Environmental Compliance Approval, an Order, or Ministry Guidelines?			
Legislative Requirement	EPA 186 (2); OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			

The sewage works was in compliance with the effluent total suspended solids concentration limits or criteria during the review period. The TSS concentration limit is 12.5 mg/L.

Question ID	942250	Question Type	Legislative
Question: Was sewage works in compliance with the effluent total phosphorous concentration limits or criteria listed in the Environmental Compliance Approval, an Order, or Ministry Guidelines?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The sewage works was in compliance with the effluent total phosphorous concentration limits or criteria during the review period. The TP concentration limit is 0.37 mg/L.			

Question ID	942450	Question Type	Legislative
Question: Was the sewage works in compliance with the effluent total ammonia/total ammonia-nitrogen (TAN) concentration limits listed in the Environmental Compliance Approval or an Order?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The sewage works was in compliance with the effluent total ammonia/total ammonia-nitrogen concentration limits or criteria during the review period. The TAN concentration limit is 6.0 mg/L from December 1 to April 30 and 2.5 mg/L from May 1 to November 30.			

Question ID	942570	Question Type	Legislative
Question: Was the sewage works in compliance with the effluent pH concentration limits listed in the Environmental Compliance Approval or an Order?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The sewage works was in compliance with the effluent pH limits listed in the ECA or Order during the review period. The pH of the effluent must be maintained between 6.0 to 9.0,			

inclusive.

Question ID	942520	Question Type	Legislative
Question: Was the sewage works in compliance with the effluent microbiological concentration limits listed in by the Environmental Compliance Approval or Order?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The sewage works was in compliance with the effluent microbiological limits listed in the ECA or Order during the review period. The E.coli limit is 200 counts/100 mL based on the monthly geometric mean density.			

Question ID	941970	Question Type	Information
Question: Was the sewage works in compliance with the effluent loading limits for all parameters listed in the Environmental Compliance Approval or Order?			
Legislative Requirement	Not Applicable		
Observation			
The sewage works was in compliance with the loading limits for all parameters reviewed.			

Question ID	942070	Question Type	Legislative
Question: Was the sewage works in compliance with the effluent BOD5 or CBOD5 loading limit listed in the Environmental Compliance Approval or an Order?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The sewage works was in compliance with the effluent BOD5 or CBOD5 loading limit during the review period. The cBOD5 loading limit is 35 kg/d.			

Question ID	942170	Question Type	Legislative
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Question:	
Was the sewage works in compliance with the effluent total suspended solids loading limit listed in the Environmental Compliance Approval or an Order.	
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);
Observation	
The sewage works was in compliance with the effluent total suspended solids loading limit during the review period. The TSS loading limit is 35 kg/d.	

Question ID	942270	Question Type	Legislative
Question:			
Was the sewage works in compliance with the effluent total phosphorous loading limit listed in the Environmental Compliance Approval or an Order?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The sewage works was in compliance with the effluent total phosphorous loading limit during the review period. The TP loading limit is 1.05 kg/d.			

Question ID	942480	Question Type	Legislative
Question:			
Was the sewage works in compliance with the effluent total ammonia/total ammonia-nitrogen (TAN) loading limit listed in the Environmental Compliance Approval or an Order?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The sewage works was in compliance with the effluent total ammonia/TAN loading limits during the review period. The TAN loading limit is 17.0 kg/d from December 1 to April 30 and 7.0 kg/d from May 1 to November 30.			

Question ID	942851-1	Question Type	Information
Question:			
Was the sewage works in conformance with the concentration and effluent loading objectives for all parameters listed in the Environmental Compliance Approval or Ministry Order?			

Legislative Requirement	Not Applicable
Observation	
The sewage works was in conformance with all effluent parameters for concentration and/or loading objectives during the review period.	

Question ID	942810	Question Type	BMP
Question:			
Was the sewage works in conformance with the effluent BOD5 or CBOD5 concentration and loading objectives listed in the Environmental Compliance Approval or Order?			
Legislative Requirement	Not Applicable		
Observation			
The sewage works was in conformance with effluent BOD5 or CBOD5 concentration and loading objectives during the review period. The cBOD5 concentration objective is 6.0 mg/L and the cBOD5 loading objective is 17 kg/d.			

Question ID	942820	Question Type	BMP
Question:			
Was the sewage works in conformance with the effluent total suspended solids concentration and loading objectives listed in the Environmental Compliance Approval or Order?			
Legislative Requirement	Not Applicable		
Observation			
The sewage works was in conformance with effluent total suspended solids concentration and loading objectives during the review period. The TSS concentration objective is 10.0 mg/L and the TSS loading objective is 28.2 kg/d.			

Question ID	942830	Question Type	BMP
Question:			
Was the sewage works in conformance with the effluent total phosphorous concentration and loading objectives listed in the Environmental Compliance Approval or Order?			
Legislative Requirement	Not Applicable		
Observation			
The sewage works was in compliance with the effluent total phosphorous concentration and			

loading objectives during the review period. The TP concentration objective is 3.0 mg/L and the cBOD5 loading objective is 0.85 kg/d.

Question ID	942850	Question Type	BMP
Question:			
Was the sewage works in conformance with the effluent total ammonia/total ammonia nitrogen concentration and loading objectives listed in the Environmental Compliance Approval or an Order?			
Legislative Requirement	Not Applicable		
Observation			
The sewage works was in conformance with the effluent total ammonia/total ammonia-nitrogen effluent concentration/loading objectives during the review period. The TAN concentration objective is 4.0 mg/L and the TAN loading objective is 11.3 kg/d for December 1 to April 30.			
The TAN concentration objective is 1.5 mg/L and the TAN loading objective is 4.2 kg/d for May 1 to November 30.			

Question ID	942870	Question Type	BMP
Question:			
Was the sewage works in conformance with the effluent microbiological parameter objectives listed in the Environmental Compliance Approval or an Order?			
Legislative Requirement	Not Applicable		
Observation			
The sewage works was in conformance with the effluent microbiological objectives during the review period. The E.coli concentration objective is 100 counts/100 mL based on the monthly geometric mean density.			

Question ID	949200	Question Type	Information
Question:			
Did the sewage works report less than two occurrences of non-compliance or non-conformance with final effluent parameter in the previous four years?			
Legislative Requirement	Not Applicable		
Observation			

The sewage works final effluent parameters had less than two occurrences of non-compliance/non conformance during the review period.

Question ID	949300	Question Type	Information
Question: Did the sewage works report less than two occurrences of non-compliance with final effluent parameter concentration limits in the previous four years?			
Legislative Requirement	Not Applicable		
Observation The sewage works final effluent concentration parameters had less than two occurrences of non-compliance during the review period. There were no exceedences in 2017, 2018, 2019, 2020 to 2021.			

Question ID	949400	Question Type	Information
Question: Did the sewage works report less than two occurrences of non-compliance with final effluent parameter loading limits in the previous four years?			
Legislative Requirement	Not Applicable		
Observation The sewage works final effluent loading parameters had less than two occurrences of non-compliance during the review period. There were no exceedences in 2017, 2018, 2019, 2020 to 2021.			

Question ID	949600	Question Type	Information
Question: Did the sewage works report less than ten occurrences of non-conformance with final effluent parameter concentration objectives in the previous four years?			
Legislative Requirement	Not Applicable		
Observation The sewage works final effluent objective parameters had less than ten occurrences of non-conformance during the review period. There were no exceedences in 2017, 2018, 2019, 2020 to 2021.			

Question ID	943650	Question Type	Legislative
Question: Were all sewage works influent sampling (raw sewage) requirements prescribed by the Environmental Compliance Approval being met?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
All sewage works influent (raw sewage) sampling requirements prescribed by the Environmental Compliance Approval were met.			

Question ID	943500	Question Type	Legislative
Question: Were all sewage works effluent sampling requirements prescribed by the Environmental Compliance Approval being met?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
All sewage works effluent sampling requirements prescribed by the Environmental Compliance Approval were met.			

Question ID	944050	Question Type	Legislative
Question: Were all additional monitoring requirements prescribed by the Environmental Compliance Approval being met?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
All additional monitoring requirements prescribed by the Environmental Compliance Approval were met. The ECA requires additional influent monitoring on a weekly basis for BOD5, TSS, TP and TKN as a 24 hour composite.			

Question ID	944750	Question Type	Information
Question: Were there no bypasses or overflows events reported for the sewage works during the			

inspection period?	
Legislative Requirement	Not Applicable
Observation	
There were by-passes or overflow events reported for the sewage works during the inspection period. During the inspection period, between June, 2017 and June, 2022, there were 2 bypass/overflow events that affected both the Mount Forest WPCP and the North Street Pumping Station (the old sewage treatment plant). One event occurred on June 23, 2017 and the second occurred on January 15, 2020 due to significant rainfall events.	

Question ID	944800	Question Type	Legislative
Question:			
For all bypasses/overflows which occurred from any portion of the sewage works, did the owner/operator maintain a logbook and/or records in accordance with the Environmental Compliance Approval?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
The owner/operator maintained a logbook and/or records of all bypasses/overflows which occurred from any portion of the sewage works in accordance with the Environmental Compliance Approval.			

Question ID	944900	Question Type	Legislative
Question:			
For all bypasses/overflows which occurred from the sewage treatment plant, were samples collected and analyzed in accordance with the Environmental Compliance Approval?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
For all bypasses/overflows which occurred from the sewage treatment plant, samples were collected and analyzed in accordance with the Environmental Compliance Approval.			

Question ID	945000	Question Type	Legislative
Question:			
For all bypasses/overflows which occurred from any portion of the sewage works, was			

disinfection provided in accordance with the Environmental Compliance Approval?	
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);
Observation	
Disinfection was provided in accordance with the Environmental Compliance Approval for all bypasses/overflows which occurred from any portion of the sewage works. There were two bypasses/overflows on the same day on January 22, 2020, during a significant wet weather event at the WPCP and the North Water Street pumping station. Chlorinated pucks were used to treat the wastewater before entering the outfall. There were two bypasses/overflows on the same day on June 23, 2017 due to a significant wet weather event. The bypasses/overflows also occurred at the WPCP and the North Water Street pumping station, both bypasses were chlorinated with chlorinated pucks.	

Question ID	945100	Question Type	Legislative
Question:			
Were notices and written reports provided to the Ministry for all bypasses/overflows which occurred from any portion of the sewage works in accordance with the Environmental Compliance Approval?			
Legislative Requirement	OWRA 16; OWRA 16.1; OWRA 16.2; OWRA 53 (1); OWRA 53 (2);		
Observation			
Notices and written reports of all bypasses/overflows were provided to the Ministry in accordance with the Environmental Compliance Approval.			

Question ID	941700	Question Type	Information
Question:			
On the day of the inspection, was the sewage works effluent essentially free of foreign substances?			
Legislative Requirement	Not Applicable		
Observation			
The sewage works effluent was essentially free of foreign substances on the day of the inspection. The treated wastewater leaving the WPCP was observed at the outfall.			

Question ID	941800	Question Type	Information
Question:			

On the day of inspection, was there no obvious evidence of groundwater/surface water impact?	
Legislative Requirement	Not Applicable
Observation	
There was no obvious evidence of groundwater or surface water impact from the sewage works on the day of inspection.	

Question ID	945790	Question Type	Legislative
Question:			
If biosolids have been transported directly off site to land apply as NASM at an Ag operation under the NMA did the record(s) reviewed demonstrate compliance with NMA sampling requirements?			
Legislative Requirement	NMA O. Reg. 267/03 93 (1); NMA O. Reg. 267/03 93 (2); NMA O. Reg. 267/03 93 (3); NMA O. Reg. 267/03 93 (4); NMA O. Reg. 267/03 95 ; NMA O. Reg. 267/03 98; NMA O. Reg. 267/03 98.0.2; NMA O. Reg. 267/03 98.0.3; NMA O. Reg. 267/03 98.0.4;		
Observation			
The sewage works met the NMA sampling requirements during the review period.			

Question ID	947250	Question Type	Legislative
Question:			
Do only operators having the appropriate level of licence for wastewater treatment systems make adjustments to the equipment?			
Legislative Requirement	OWRA O. Reg. 129/04 14-1 (1);		
Observation			
Only licenced operators made adjustments to the treatment equipment.			

Question ID	947300	Question Type	Legislative
Question:			
Has the overall responsible operator been designated for the wastewater treatment facility?			
Legislative Requirement	OWRA O. Reg. 129/04 15 (1);		
Observation			

The overall responsible operator had been designated for the wastewater treatment facility.

Question ID	948050	Question Type	Legislative
Question: Do logs or other record keeping mechanisms for sewage works comply with the record keeping requirements?			
Legislative Requirement	OWRA O. Reg. 129/04 19 (1); OWRA O. Reg. 129/04 19 (2); OWRA O. Reg. 129/04 19 (3); OWRA O. Reg. 129/04 19 (4); OWRA O. Reg. 129/04 19 (5); OWRA O. Reg. 129/04 19 (6);		
Observation			
The logs and other record keeping mechanisms complied with the record keeping requirements. The operators use both written logsheets and electronic logsheets.			