



Meeting Date: November 24, 2021

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Report No: PWE 43-2021

Subject: Birr Water System 2021 Annual Inspection Summary

Recommendation:

THAT Report PWE 43-2021, re: 2021 Ministry of Environment, Conservation & Parks (MECP) Annual Inspection Report for the Birr Water System be received for information.

Purpose:

To advise Council of the 2021 MECP Annual inspection finding at the Birr Water System.

Background:

Under the Safe Drinking Water Act, 2002 (SDWA) Section 81 the MECP undertakes annual inspections of Municipal Drinking Water Systems (DWS). Inspections cover operational and process details, as well as the system condition and maintenance practices. The 2021 inspection was an announced inspection by the MECP and was performed on-site June 16, 2021 and finalized on September 21, 2021.

Analysis:

The Drinking Water System Inspection Report are typically broken in to two (2) sections:

1. Non-compliance based upon a “No” response captured for a legislative or best practice (BMP) question, and
2. Inspection Details related to questions that were assessed during the drinking water inspection Summary of Recommendation and Best Practice Issues.

Non-compliance with Regulatory Requirements and Actions Required

Over the inspection period, two (2) non-compliance with regulatory requirements were identified. The non-compliances were related to security of the facility and have been addressed. A new reservoir hatch cover was installed and reported to the MECP on October 6, 2021. According to the Operating Authority, security of the SCADA system is

based solely from their internet provider. A project has been initiated with Middlesex County IT and a SCADA Engineering Consultant to determine the state of the water & wastewater IT systems and roadmap out what the system should look like and function. This will included internet providers, security measure and standardization.

Question Group: Security

Question ID	MRDW1069000		
Question	Question Type	Legislative Requirement	
Are all storage facilities completely covered and secure?	BMP	Not Applicable	
Observation/Corrective Action(s)			
<p>All storage facilities were not completely covered and secure.</p> <p>At the time of the site inspection the hatch cover for the reservoir was observed to be rusted and degraded on one corner and in need of repair.</p> <p>Corrective Actions:</p> <p>It is strongly recommended that the Owner / Operating Authority immediately repair the damage to the existing reservoir hatch to mitigate the entry of foreign material to the reservoir as recommended by the Recommended Standards for Waterworks - Section 7.0 Finished Water Storage. Upon completion of this work, the Owner / Operating Authority shall forward documentation describing the work completed on the reservoir hatch to Neville Rising of the MECP.</p>			

Question ID	MRDW1071000		
Question	Question Type	Legislative Requirement	
Has the owner provided security measures to protect components of the drinking water system?	BMP	Not Applicable	
Observation/Corrective Action(s)			
<p>The owner had not provided security measures to protect components of the drinking water system. The Treatment Plant remains locked at all times and is equipped with an entry alarm which is connected to a dialing system to alert the Operating Authority / Owner of unathourized entry. It is visited daily and the property on which the Treatment Plant is located is fully fenced and locked to mitigate unwanted access to the Treatment Plant property.</p> <p>According to the Operating Authority, security of the SCADA system is based solely from their Internet provider.</p> <p>Corrective Actions:</p> <p>It is recommended that the Owner / Operating Authority assess the current state of their cyber-security to protect the confidentiality and integrity of transmitted information and deter identity theft by outside attackers as referenced in the 2012 Edition of the Recommended Standards for Waterworks</p>			

Inspection Details

The inspection Details related to questions that were assessed during the drinking water inspection Summary of Recommendation and Best Practice Issues are identified in the attached inspection report.

The MECP inspection objective is to determine the drinking water system compliance with the Safe Drinking Water Act and associated regulations. Based upon the results of the inspection an overall inspection rating is calculated and the Birr Drinking Water System received a 100% Inspection Rating.

Financial Implications:

None

Strategic Plan:

This matter aligns with following strategic priorities:

- Responsive Municipal Government
- Sustainable Infrastructure and Services

Attachments:

Birr Drinking Water System Inspection Report

Birr Drinking Water System – Inspection Summary Rating Record (Reporting Year 2021-2022)