

NOTIFICATION OF NON-COMPLIANCE

May 4th, 2023

Andrew Winkler
 MECP-London District Office
 733 Exeter Road
 London, ON N6E 1L3

Re: Notification of Non-compliance with ECA Effluent Limit

This is a notification of non-compliance with an effluent limit at the Thorndale Wastewater Treatment Plant that is being submitted in accordance with the terms and conditions of Environmental Compliance Approval 0955-8MKJNP, and provisions of the *Ontario Water Resources Act* and *Environmental Protection Act*. This written notice confirms the verbal notification provided to Andrew Winkler on May 3th, 2023.

The following effluent parameter(s) were exceeded:

Parameter	Date of Non-Compliance (yyyy-mm)	Type of Limit	Type of Sample	Result (Specify Units)	ECA Effluent Limit
Effluent E.coli	2023-04	Monthly Geometric Mean	Grab	260.1cfu/100mL	100cfu/100mL
Total Suspended Solids	2023-04	Monthly Average	*Composite	60 mg/L	10 mg/L
TSS Loading	2023-04	Monthly Average	*Composite	29.9 kg/day	6.74kg/day

*Additional sample was a grab sample obtained during peak flow of high rainfall event.

Comments/Actions Taken:

The monthly geometric mean for effluent E.coli, monthly average concentration for effluent total suspended solids (TSS), and monthly average TSS loading were exceeded during the month of April, 2023. This exceedance was caused by a heavy rainfall event that occurred on April 1st, 2023. As per the Environmental Compliance Approval 0955-8MKJNP, the UV disinfection system is designed to handle a peak flow rate of 2,436m³/day which was exceeded on April 1st. On April 1st, the total daily flow treated at the facility was 3,706.34m³. The monthly average daily flow for the month was 499.9 m³/day.

The increase in flow due to the heavy rainfall caused the Thorndale WWTP to operate in storm mode which reduces the cycle time periods by 25% to process flows up to the peak flow rate. Additional grab samples were collected during this peak flow rate exceedance to capture the effluent quality and monitor plant performance. Excluding the additional sample, all other E.coli and TSS sample results and loadings during the month of April would have averaged within the compliance limits.

The following table outlines the individual sample results as reported by SGS Laboratories for the month of April:

Date	E.coli Result (cfu/100mL)	TSS (mg/L)	TSS Loading (Kg/Day)
*April 1 st	62,000	279	139.5
April 4 th	420	11	5.5
April 11 th	19	5	2.5
April 18 th	56	3	1.5
April 25 th	43	2	1.0

*Additional sample was a grab sample obtained during peak flow of high rainfall event.

If you have any questions or concerns, please contact me at 519-870-7841.

Sincerely,

Matthew Belding

Process and Compliance Technician

cc: Adam Grant, MECP Water Compliance Supervisor
Dale LeBritton, OCWA Regional Hub Manager
Mark Harris, OCWA Senior Operations Manager
Maegan Garber, OCWA Safety, Process and Compliance Manager
Jarrod Craven, Thames Centre Director of Public Works
Kevin Willson, Superintendent of Environmental Services