
Purpose:

This procedure has been prepared in accordance with Environmental Compliance Approval (No. 1488-B8JL5F) issued for the Haileybury Wastewater Treatment System on March 27, 2019. The purpose of the procedure is to notify the public and downstream users that could be impacted by an overflow, bypass or spill event that may occur in the system.

Definitions:

Event - means an action or occurrence, at a given location within the Works that causes a overflow or bypass. An event ends when there is no recurrence of bypass or overflow in the 12-hour period following the last bypass or overflow. Overflows and bypasses are separate events even when they occur concurrently.

Overflow - means a discharge to the environment from the Works at designed location(s) other than the approved effluent disposal facilities or via the effluent disposal facilities downstream of the Final Effluent sampling point.

Bypass - means diversion of sewage around one or more treatment processes, excluding Preliminary Treatment System, within the Sewage Treatment Plant with the diverted sewage flows being returned to the Sewage Treatment Plant treatment train upstream of the Final Effluent sampling point(s) and discharged via the approved effluent disposal facilities.

Spill – A discharge of a pollutant into the natural environment from or out of a structure, vehicle or other container which is abnormal in quality or quantity in light of all circumstances of the discharge (EPA)

Background:

The Haileybury Sewage Treatment Plant is located at 275 View Street in the City of Temiskaming Shores and serves a population of approximately 4200 residents within the former Town of Haileybury. There are two pumping stations in the collection system; one located on Farr Drive and the other on Brewster Street. The Ontario Clean Water Agency (OCWA) is the operating authority and is designated as the Overall Responsible Operator for both the wastewater treatment and collection facilities. Temiskaming Shores is located outside of the source protection area established under the Clean Water Act of 2006.

Lake Temiskaming is the receiving water body for all bypass and overflow events that may occur in the Haileybury wastewater system. Lake Temiskaming is almost 300 km² and is widely used for recreational activities.

There are no downstream water plants or known users that could be impacted by a bypass, overflow or spill from the Haileybury Sewage Treatment System.

A review of historical data (2012 to 2018) indicates that all abnormal discharge events occurred at the Farr Drive Sewage Pumping Station and discharged to Lake Temiskaming.

Three overflow events occurred from 2012 to 2014 during heavy rains and snow melt and two events occurred from power issues. The highest volume of chlorinated wastewater discharged from these events was 80 m³. One spill occurred from 2015 to 2018 and discharged approximately 350 m³ of untreated wastewater into Lake Timiskaming.

All wastewater overflows, bypasses and spills are immediately reported to the Ministry of the Environment's Spills Action Center and the local Medical Officer of Health and sampled for parameters outlined in the system's Environmental Compliance Approval.

In an effort to reduce and/or eliminate these occurrences, an emergency backup generator is installed at the wastewater treatment plant which also supplies power to the Farr Drive pumping station, a SCADA system is used to accurately monitor the sewage network and an alarm system is in place at key points in the process and at the sewage pumping stations to alert operators of any issues; power failures, high levels, equipment failures, loss of communication and intrusion.

Notification Procedure:

1. Notification to the public and downstream users is required when a bypass, overflow or spill event discharges a total volume of 500 m³ or more. OCWA will notify the City and provide the following information:
 - Location of the event
 - Nature of the event (overflow/bypass/spill)
 - Start date of the event
 - Start time of the event
 - Cause of event (ex. rain, snowmelt, power outage, mechanical failure)
 - Whether or not the event is on-going

This information will be recorded on OCWA's Environmental Incident Report specifically prepared for the Haileybury Wastewater Treatment Plant.

2. The City will then post an Emergency Bypass/Overflow/Spill Report (found in the Appendix) with the details of the event on their website as soon as reasonably possible.

<http://www.temiskamingshores.ca>

3. After the event is terminated, OCWA will contact the City with the stop date, stop time and total volume of the discharge. The City will then update the Emergency Bypass/Overflow/Spill Report on the website.

4. Emergency Contacts at the City of Temiskaming Shores are:

Primary Contact - Steven Burnett, Technical and Environmental Compliance Coordinator

Work: 705 672-3363 ext. 4132

Cell: 705 647-2410

Secondary Contact – Doug Walsh, Director of Public Works

Work: 705 672-3363 ext. 4126

Cell: 705 622-2285

Revision History

Date	Revision No.	Reason for Revision
September 18, 2019	0	Procedure issued
September 26, 2019	1	Corrected City website in Step 2

Appendix

Emergency Bypass/Overflow/Spill Report



Emergency Bypass/Overflow/Spill Report

Name of Wastewater Treatment System	Haileybury Wastewater Treatment System
Location:	
Nature of Event:	<input type="checkbox"/> Overflow <input type="checkbox"/> Bypass <input type="checkbox"/> Spill
Start Date (Month/Day/Year):	
Start Time (24 hour clock):	
Cause of the Event:	
Stop Date (Month/Day/Year):	
Stop Time (24 hour clock):	
Total Volume of Discharge (m ³):	