

# The **SENTRY**™ system was installed at four **Parks Canada** sites across **Alberta** and **British Columbia**.

“**SENTRY** has been providing real-time feedback on wastewater strength at several of our treatment plants across the Agency. **The data is presented in a simple, graphical format, which helps us to better understand our operations and treatment plant performance.** We are learning how BOD varies throughout the day and how plant performance responds at various locations within the treatment process.”

Quote from Dwayne Doucette, Water and Wastewater Engineer,  
Parks Canada / Government of Canada

## Parks Canada Installation

SENTRY provides Parks Canada wastewater treatment operators with the ability to remotely monitor wastewater treatment plant performance in real-time at four park locations in the Rocky Mountains.

The SENTRY team installed four SENTRY systems in a variety of wastewater treatment systems, across three of Canada's National Parks in the Spring of 2019. The installations were aimed to help operators better understand health of biology and treatment plant performance through the fluctuation of tourism seasons. The installations are relevant for operators of return activated sludge (RAS), enhanced on-site septic, rotating biological contactors (RBC) and membrane bio-reactor (MBR) treatment plants.



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## **Banff National Park (Alberta)**

### **Lake Louise WWTP**

Sensors were installed on the influent and effluent of the aerated bioreactor to monitor the overall treatment efficiency of the process. The plant experiences a large range of fluctuations in loading throughout the year due to seasonal and small industry sources. Using the SENTRY dashboard, operators can remotely monitor daily and weekly trends in performance of the aeration system.

### **Johnson Canyon WWTP**

Sensors installed in this remote location monitor the treatment efficiency of a fixed film reactor, as well monitor final system effluent. Key goal was to understand if excess organic loading is being directed to the leach field during the Summer season when increasing people are visiting the area.

## **Jasper National Park, (Alberta)**

### **Miette Hot Springs WWTP**

This is a relatively small plant and does not have full-time, on-site operators, therefore remote monitoring of key equipment is hugely beneficial. Using the SENTRY online dashboard and alerts system, the local operator can schedule maintenance based on imbalance notifications from the biology in the treatment plant.

## **Yoho National Park, (British Columbia)**

### **Field WWTP**

The SENTRY sensors are installed at 4 key process locations throughout the membrane bio-reactor (MBR) providing key insight on plant performance and real-time alerts. By remotely observing the daily trends on the SENTRY dashboard, operators can decrease the frequency and dependency of check-ins at the station while helping to maintain key treatment standards.



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