

## Stormceptor Shines in 200-yr Storm

Project: Peterborough 200-yr Storm

Location: Peterborough, Ontario, Canada

Owner: City of Peterborough

Product: Stormceptor®



On July 15, 2004, the City of Peterborough's streets turned into rivers as a record-breaking storm dumped over 220 mm (8.7 inches) of rain on the region. Estimated to be a 200-year storm, thousands of homes and businesses filled with six to eight feet of water, forcing residents to evacuate and the city to declare a State of Emergency. At the peak of the event, storm sewer flow rates were five times higher than typically expected, surging with stormwater filled with harmful pollutants. Emergency crews worked frantically to minimize the damage that was initially estimated at over \$80 million. In fact, the cost to the city could have been much greater, both economically and environmentally, had it not been for the city's 46 Stormceptor units that effectively prevented pollutants from entering nearby lakes and streams.

In 2001, Peterborough chose the Stormceptor oil and sediment separator (OGS) because it had been tested and verified to remove and retain more pollutants from stormwater than any other OGS separator, treating the broadest range of sediment particle sizes, as well as harmful hydrocarbons. To ensure optimum performance, a maintenance and inspection plan supplied by Hanson Pipe & Precast for the Stormceptor units followed installation. Each of the region's 46 Stormceptor units was inspected by Minotaur Guardian Services shortly before the storm.



A week after the flood, Minotaur returned to inspect the Stormceptor units and found they performed exceptionally well during the heavy rain event. The average amount of sediment found in the units was 165 mm (6.5 inches). Considering the average sediment level was 100 mm (4 inches) in the months leading up to the storm, the sheer volume of pollutants captured and retained during the storm was remarkable. The Stormceptor's patented scour prevention technology and verified performance successfully retained oils and sediment despite the enormous flow and volume of stormwater, reducing the dangers of releasing harmful pollutants.

While extensive laboratory and field-testing had already proven the Stormceptor's effectiveness, the Peterborough flood demonstrated just how well the Stormceptor works under real-world, extreme conditions. Minotaur's inspection service and report reinforces the exceptional performance of Stormceptor, specifically, its ability to prevent scouring during the most intense rainfall. With units operating worldwide, Stormceptor performs and protects every day, in every storm.