



## Pump & Treat System



# Case Study

## Emergency Treatment System

**Market:** Small Municipality

**Location:** Lac Mégantic, Quebec, Canada

**Capacity:** 120 (US) GPM (Treated 6,000,000 liters of crude oil that spilled)

**Installed:** In operation since 2013

On July 6, 2013, an unattended 74-car freight train carrying crude oil slowly rolled from a Quebec rail yard, picking up speed as it descended the rail line towards the small town of Lac Mégantic. As it reached the center of town, travelling at over 60 miles per hour, it derailed and exploded violently – killing 42 people and destroying almost half of the downtown area.

### Project Parameters

News of the derailment, fire, explosion, deaths and destruction in the small town in Quebec's Eastern Townships on July 6, 2013 spread far and wide. There were far fewer headlines about the 6,000,000 liters of crude oil that spilled onto the town centre and threatened the Chaudière River that winds through the town of nearly 6,000 people.

Within days of the disaster, authorities put emergency measures into place to stem the flow of polluted water and oil that had entered the river. But with the onset of winter approaching, a sound remediation plan was needed.

The Quebec Government hired an engineering consulting firm who hired remediation contractor that chose Newterra due to their proven ability to respond quickly with equipment and valuable technical expertise.

The Newterra system was capable of treating 120USGPM. The treatment systems include oil-water separation, bag filtration, clay filtration media and, finally, carbon vessels. The first system was delivered within a week, and the second quickly followed a week later. Start-up services were provided immediately after installation during the third week.

The start-up included testing to demonstrate the process's effectiveness in removing hydrocarbons, and the systems have been running since that time.

Newterra's ability to meet or exceed the specifications and provide additional features to make the end product more flexible, more energy-efficient and capable of withstanding Lac Mégantic's freezing winters sealed the deal.

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