

# CASE STUDY NORDIPIPE™

MONTREAL, CANADA  
4600M (15092 ft)



**The water pipes in the old section of Montreal, Canada, are over 100 years old. In a two-year project they are being effectively renewed with NORDIPIPE™.**

Jean-Francois Dubuc, Engineer in the Department of Infrastructure, Transport and Environment of the City of Montreal, was faced with a problem: "The water pipes beneath the historic section of

Montreal are old and badly in need of renewal. Most of them were laid over a hundred years ago. They are hardly able to cater for today's demands." The decayed pipes are located deep beneath the busy streets of Montreal's Old Town with its numerous historic buildings, shops and office complexes. SEKISUI NordiTube, a subsidiary of SEKISUI SPR in America, proposed a solution for the Montreal Old Town in the form of trenchless pipe rehabilitation.

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On-site impregnation of NORDIPIPE™



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#### Old pipes with a new lining

The contract to rehabilitate parts of the pipe network – 4,6 km (2.8 miles) in total – was awarded to Aqua Rehab construction company of Laval, Québec. The first phase to be tackled by the experienced pipe repairers was a 130 m (426.5 ft) long culvert beneath the busy Rue Saint Jacques and Rue Saint Pierre intersection in Montreal. In the evening hours, once the Montreal rush hour had ebbed, the Canadian construction company's team began with the installation of the NORDIPIPE™ cured in place lining inside the old pipes. Already, three further sections of the total of about 1,6 km (0.99 miles) of dilapidated culverts have been renewed by the proven cured in place lining process. By the conclusion of the two-year project – at an estimated cost to the City of Montreal of about \$ 5 million – all the city's decayed pipes will be as good as new.

#### Rehabilitation in record time

Jean-Francois Dubuc was impressed not only by the minimally disruptive procedure, but also the short time involved for pipe renewal with NORDIPIPE™.

With SEKISUI NordiTube Aqua Rehab took less than 24 hours to complete pipeline sections of up to 152 m (498.6 ft) – a fraction of the time needed for a conventional renewal with a trench. From a financial point of view the project likewise brings savings for Dubuc: the elaborate construction involved in "normal" pipe renewal beneath sensitive city districts such as Old Montreal would have cost the city fathers considerably more. And the approx. 4,000 inhabitants of the Old Town can heave a sigh of relief.

With the trenchless NORDIPIPE™ pipe renewal technology they were spared the usual dust, noise and traffic hold-ups.

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