

3M™ Scotchkote™ Pipe Renewal Liner 2400

Rehabilitation Case Study

Town of Rothesay, Rothesay, New Brunswick/Canada
CBCL Limited Consulting Engineers, Kent Tays

September, 2011

Project Background:

- Pipe/Asset Owner: Rothesay
- Pipe History/Age: 1968
- Pipe Material: Unlined Cast Iron
- Pipe Diameter: 6" (150 mm)
- Pipe Length: 1,000 meters

Project Issues and Objectives:

- Water Main Issues:
 - Water discoloration
 - Poor pressure
 - Tuberculation
- Client Project Objectives
 - Water Quality improvement
 - Pressure
- Competing Solutions Considered
 - Pipe Replacement

Project Outcome:

- Lining Solution: 1.2 mm Scotchkote Liner 2400
- Cleaning Method: Rack Feed Bore
- Project Timeframe: 2 weeks
- Volume of Material: 570 Liters

Application Contractor:

- Alltech Solutions Inc.

Customer Comments / Reaction:

"The 3M™ Scotchkote™ Pipe Renewal Liner 2400 product was the perfect application for the needs of the Town of Rothesay. The town has a lot of existing infrastructure that is 150 mm and 200 mm of unlined cast iron distribution mains that were constructed in the late 1960's. The town has experienced water quality and hydraulic issues with the buildup of scale in the lines. Flushing programs in the past have been implemented with little or no improvements. The use of the Scotchkote Liner 2400 allowed the town to do the project with only daytime shutdowns. All water was put back into service at the end of each day with only boil advisory required until sample results were returned and the advisory removed. The cure time for the Scotchkote Liner 2400 was a major advantage in allowing the system to be turned back in each day."

Kent Tays, Project Manager
CBCL Limited Consulting Engineers

As-Found Condition (Pre Cleaning & Lining)



As-Left Condition (Post Cleaning & Lining)

Scotchkote Liner 2400 features a unique polyurea formula, which resurfaces existing infrastructure, thereby serving to:

- Restore pipe internal diameter
- Increase water-flow rates
- Minimize water loss throughout the system

