

Date Submitted: 28/10/2016

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Abstract Title: Innovative Manhole and Pipeline Rehabilitation Techniques Prove Worth in Two Very Different Situations

Abstract Theme: Trenchless Pipe Materials

Abstract:

Edmonton-based OSCO Mudjacking & Shotcreting Ltd. (OSCO) is cost-effectively rehabilitating failing manholes (and sewers) without excavation or barrel replacement. Using the Permacast® and CentriPipe® systems developed by AP/M Permaform (AP/M) and distributed by Martech, Inc. of Edmonton, a Canada-wide sales and distribution company representing manufacturers focused on the construction industry, OSCO has applied Permacast® on two manhole projects with widely varying challenges:

- 1) A new 9-meter manhole installed as part of Edmonton's massive project converting the QE II Highway and 41 Avenue SW connection to a grade-separated interchange.
- 2) Six failing manholes in remote Carmacks, a Yukon village.

For horizontal application, OSCO is also finding success installing the CentriPipe® system.

In a 110 foot long twin steel sewer rehabilitation near Athabasca, CentriPipe® won the 2015 Alberta Government Minister's Award of Excellence for Construction Innovation.

Edmonton Sewer Line

The Edmonton project involved installing a new 9-meter (29.5-feet) manhole to provide access to the midpoint of a 145-meter section of existing 54-inch concrete sewer line. The sewer line needed to be structurally rehabilitated to withstand increased loads from a new overpass being constructed as part of an interchange project.