



494-2012 ADDENDUM 1

2012 INTERCEPTOR INSPECTIONS

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE BID
OPPORTUNITY**

ISSUED: August 7, 2012
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE BID OPPORTUNITY AND SHALL
FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: A20120228

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid may render your Bid non-responsive.

PART B – BIDDING PROCEDURES

Revise: B2.1 to read: The Submission Deadline is 12:00 noon Winnipeg time, August 10, 2012.

PART E – SPECIFICATIONS

Add: E6.3.1 (e) as follows:

- (e) The Contractor shall note that the sewers to be inspected encompass a wide range of flow conditions including large quantities of sewers with very low flow conditions that will make the use of float systems complex and some sewers with very high flow conditions where even the diurnal low flows may make the use of track-mounted platforms complex. The Contractor shall select his Sewer Inspection Equipment in accordance with Specification E7.1 and the site specific flow conditions.

Revise: E7.3.1 (c) (i) to read:

- (i) SONAR scanning equipment shall accurately measure the depth to sediment or pipe surface below the fluid level at regular intervals throughout the inspection and shall include collection of X, Y, and Z coordinates of the inner pipe surface, where possible, using dual sonar heads.

Revise: E10.2.2 to read:

E10.2.2 SONAR Scanning Inspection:

- (a) Graphical summaries of sediment thickness and cumulative sediment volumes in the trough of the pipe below the water line versus pipe location, and pipe capacity depicting actual versus original theoretical storage capacity. Cross-sectional representation of the pipe wall in graphical form, based on the sonar imaging, shall be a true representation of the pipe wall shape showing true orientation of ovality, reverse curvature, holes, or other potential features. The graphical form of the pipe cross-section shall also show the debris profile.
- (b) Statistical average, minimum, and maximum values of sediment accumulation along the sewer, where appropriate, as determined by calculating the portion of the pipe obstructed by sediment and presented as a percentage of the pipe area.
- (c) Video file of SONAR data in AVI file format. The full raw sonar images shall be provided. There shall be no cropping of sonar images. Sampling interval of sonar images shall be no greater than 0.5 metres along the pipe length.

- (d) Sonar data collected with X, Y, and Z coordinates shall be used to produce a three dimensional surface model of the pipe interior at specific feature and defect locations. The three dimensional model shall show relative change in pipe elevation (Z-coordinate) along the pipe length and the cross-section variation (X- and Y-coordinate). The data shall be in the form that it can be displayed and manipulated in AutoCAD.

The interior surface of the pipe produced from the sonar data shall be converted to a flat image, analogous to the form of an image produced from laser scan data. Clock position on the pipe circumference shall be noted relative to the edges of the flat sonar image.

The specific feature and defect locations that are required to be captured in this manner include all significant defects, all significant changes in direction or other unique pipeline features such as bends or reducers and other locations where there is significant cross sectional change in the pipeline.