

Comparison of Coolvision and Cues Pipeline Inspection Systems

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Introduction and Analysis Results

Deformation analysis of a sample pipeline was performed using two different pipeline profiling systems. Cues Laser Profiler¹ and Coolvision Laser Profiler² systems were selected for the comparison of the results obtained by two independent systems. The Inspection was performed on the same culvert under identical load conditions. Figures 1 and 2 show the deformation graphs obtained by both systems. The positions of both graphs vary by 7 to 8 feet due to the fact that both systems have established an arbitrary starting position.

Note: This comparison is presented in order to compare the deformation plots obtained by multiple measurement tools on a culvert since we have conducted deformation data analyses on multiple underground structures in a parallel research project. It is not the intention of the authors to endorse either of the systems used during this inspection. The authors are merely reporting the deformation graphs obtained by the two different equipment systems on the same culvert under the same loading condition.

Deformation Analysis

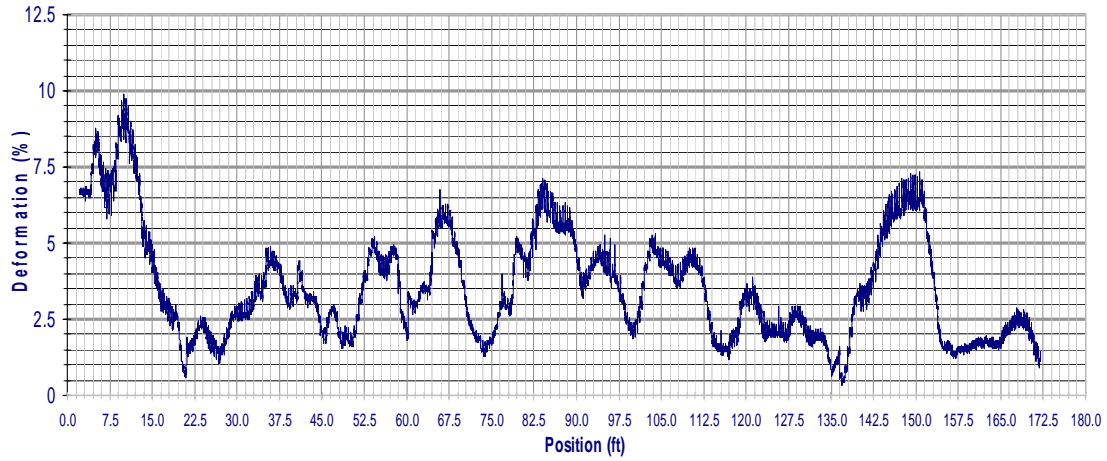


Figure 1 Cues Laser Profiler

Deformation analysis

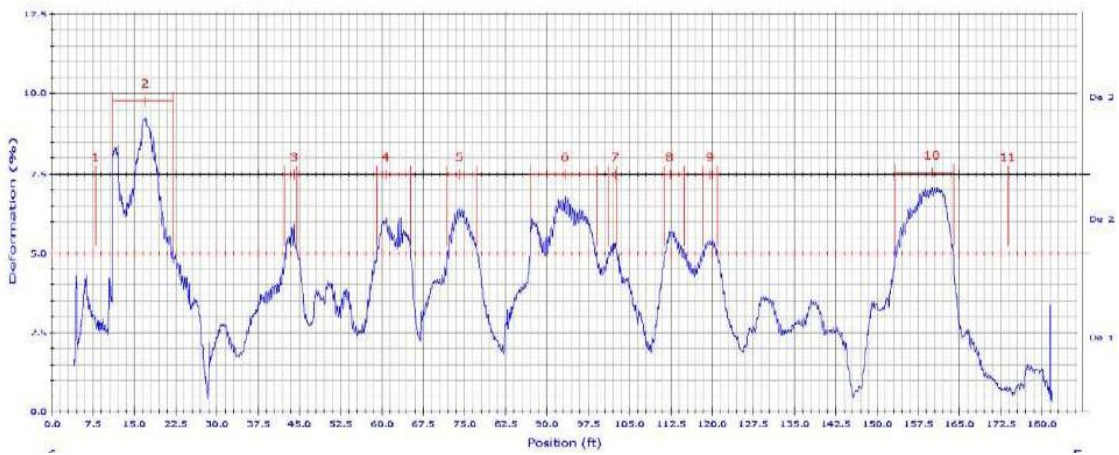


Figure 2 Coolvision Laser Profiler [Provided by Coolvision]