



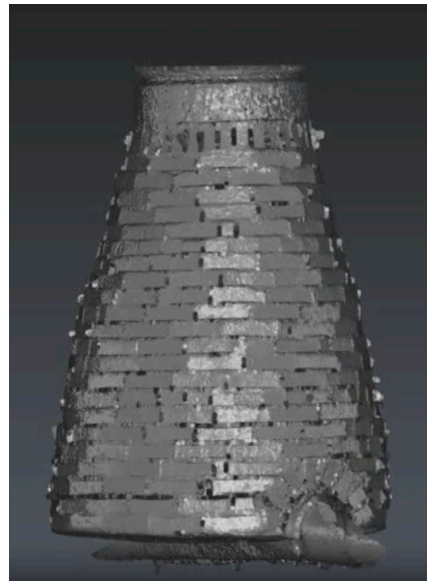
Manhole Virtual Modeling

Virtual Reality Manholes / Wet Wells



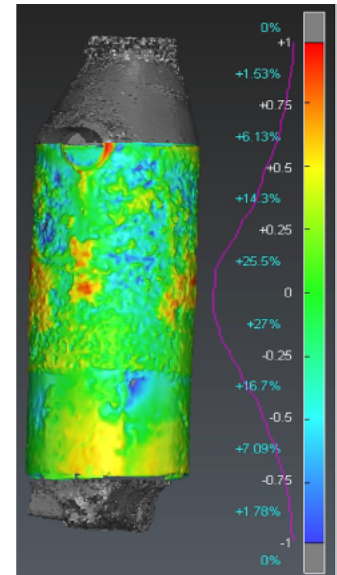
- ▶ Enter manhole *virtually*
- ▶ No confined space hazards
- ▶ Share with stakeholders

High-Density Point Clouds



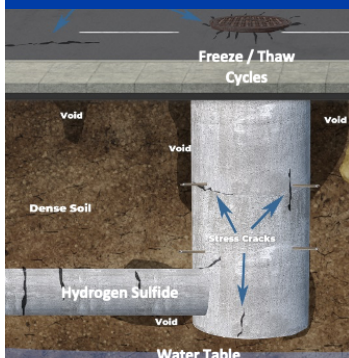
- ▶ Measure any dimension
- ▶ Set as-is baseline
- ▶ Share data with a link

Wall Degradation Analysis



- ▶ Quantify degradation
- ▶ Make data-driven decisions
- ▶ Improve asset management

Stress on Aging Manholes:



- H₂S Gas
- Roots
- Stress Cracks
- Infiltration
- Freeze/Thaw



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