Testing Methods for Asbestos Cement Pipe (yes there are ACP sewer lines)

Presented to:
SCAP Collection Systems Committee
Irvine, CA

Presented By:
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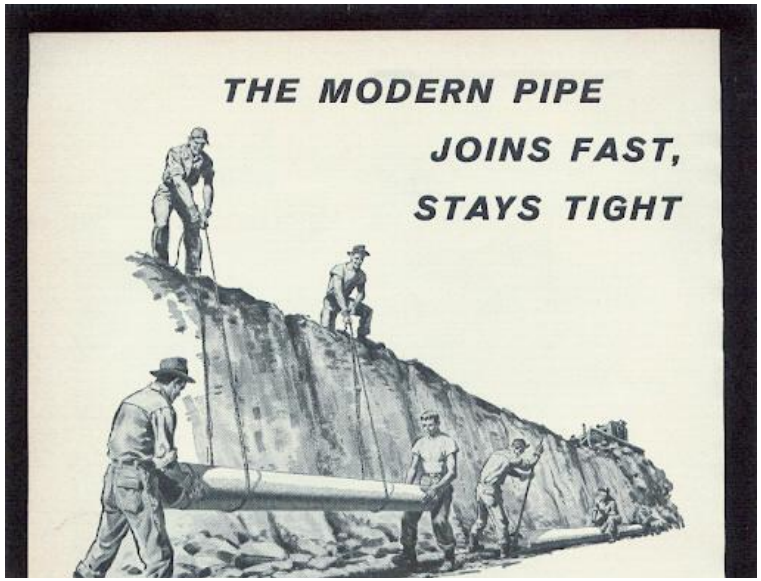
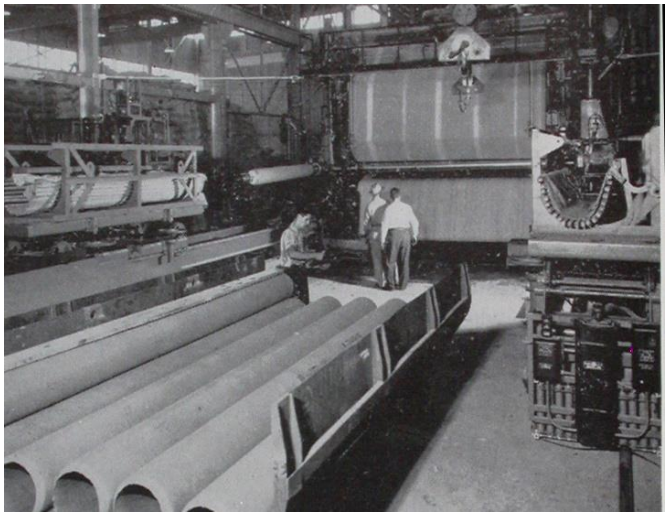
Dudek

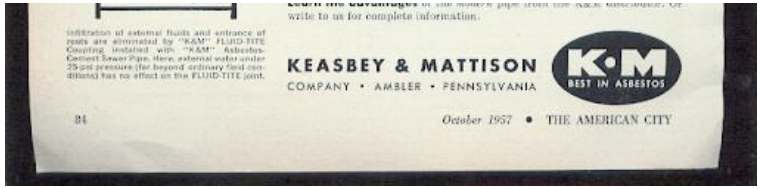
DUDEK

History of AC Pipe

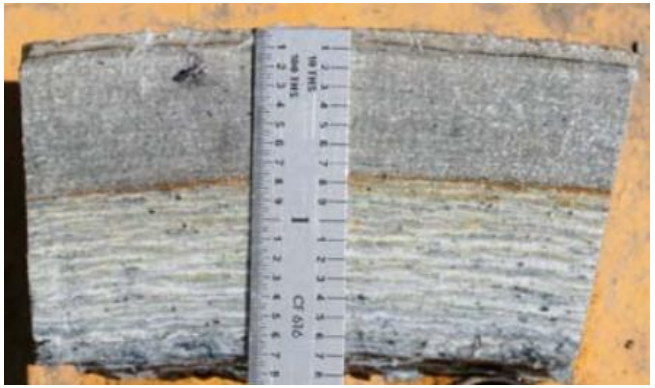




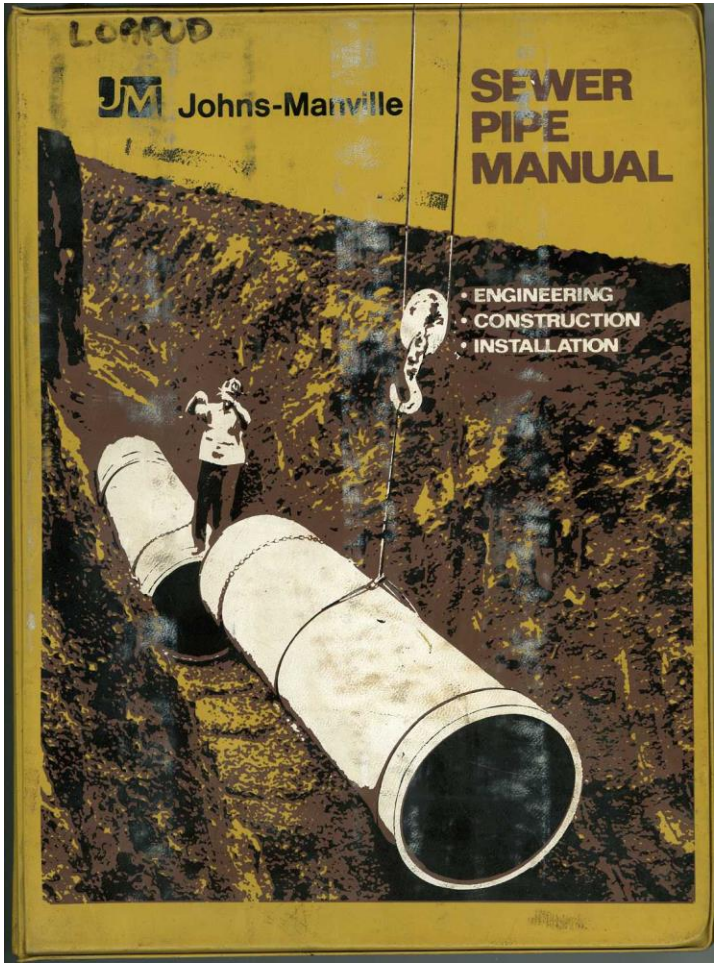
"For gravity sewer systems, 'K&M' Asbestos-Cement non-pressure pipe is the modern answer to the need for low-cost, permanent, water-tight connections"

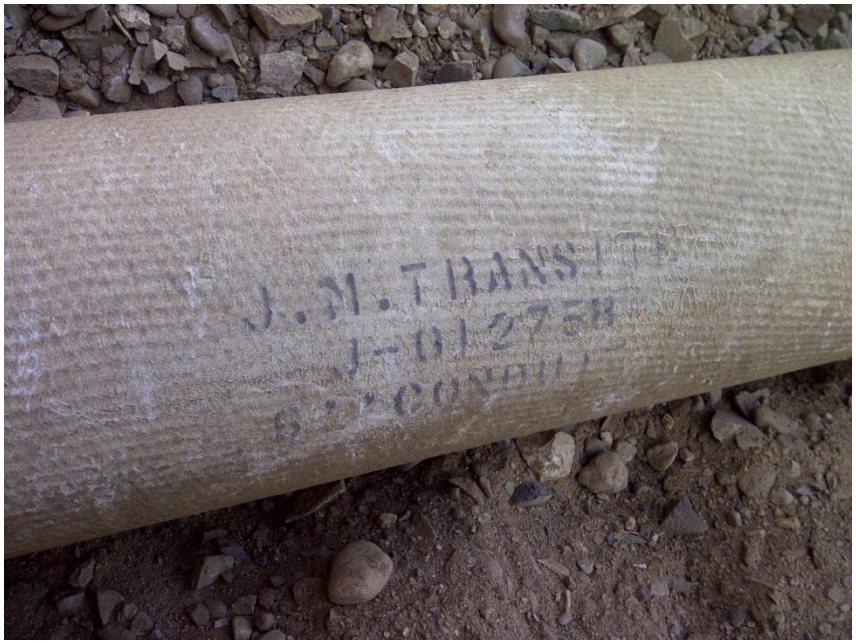


Failure Modes of AC Pipe



Who has AC Pipe?





Test Methods Overview

Phenolphthalein Dye Test

Acoustic Velocity Test

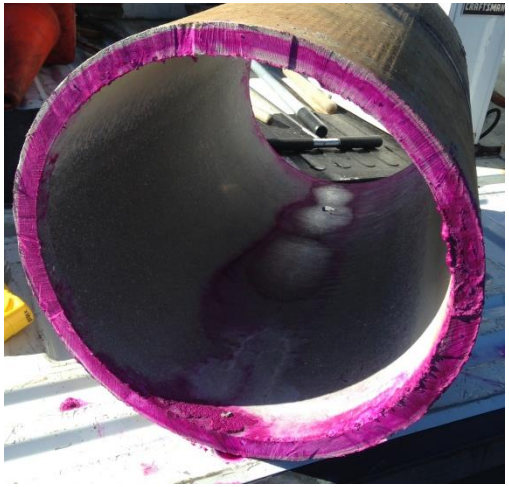
SEM-EDX Test

Crushing Strength Test

Hardness Test

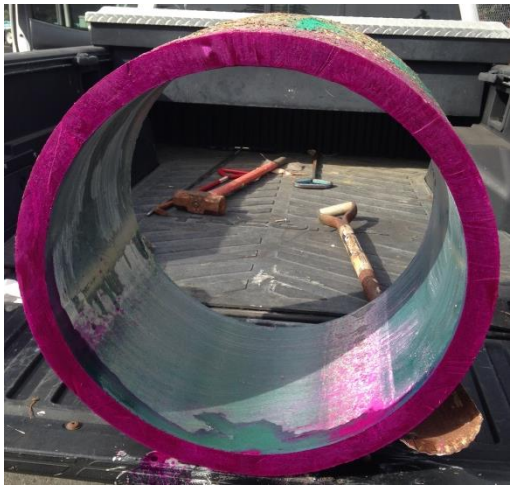
Phenolphthalein Dye Test

Effluent Outfall Condition Assessment Results



Sample #1

Sample #2



Sample #3

Sample #4

Sample #5

Sample #6

Hardness Testing

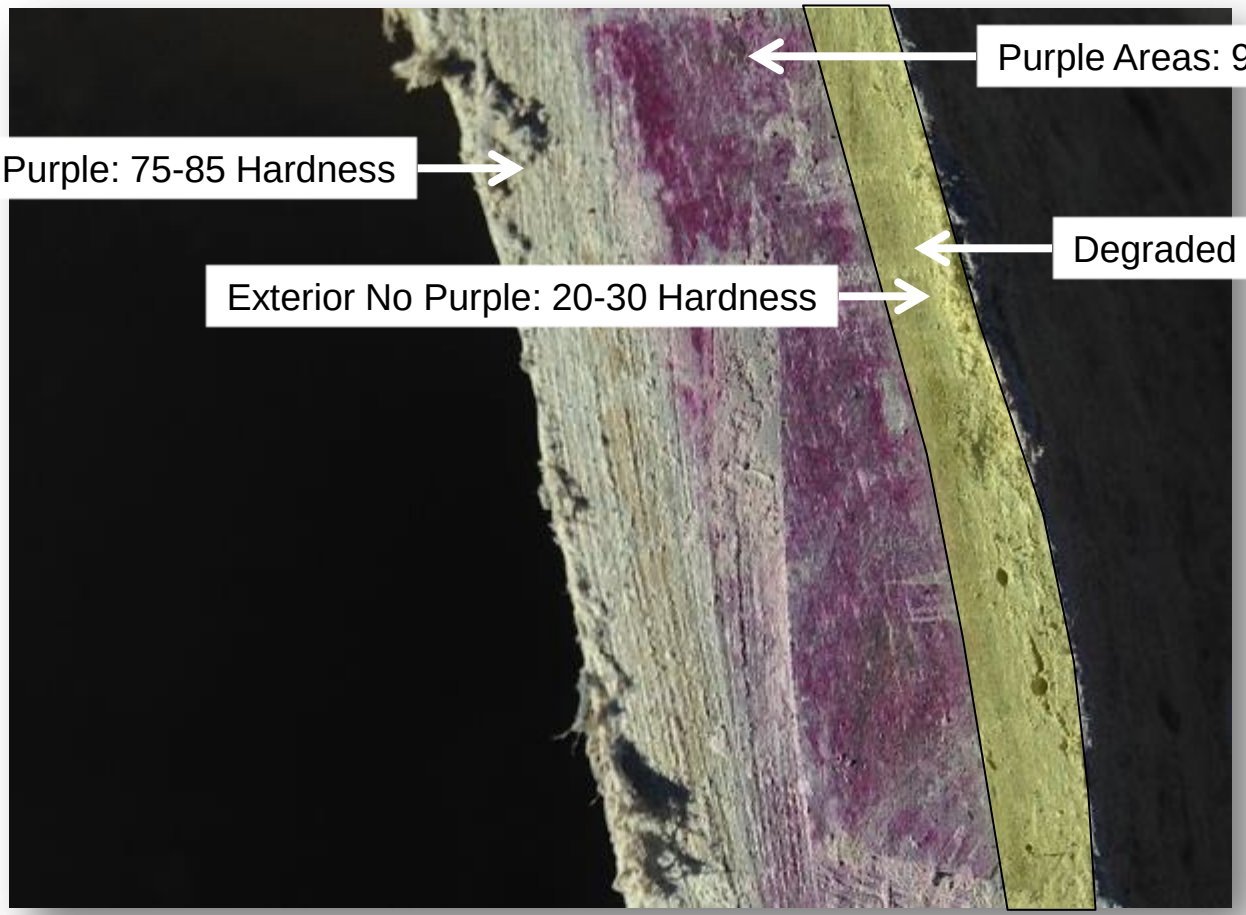
Test on Pipe Cross Section

Durometer Measures Relative Hardness (Scale 0-100)

Hardness Testing

Effluent Outfall Condition Assessment

Sample #1



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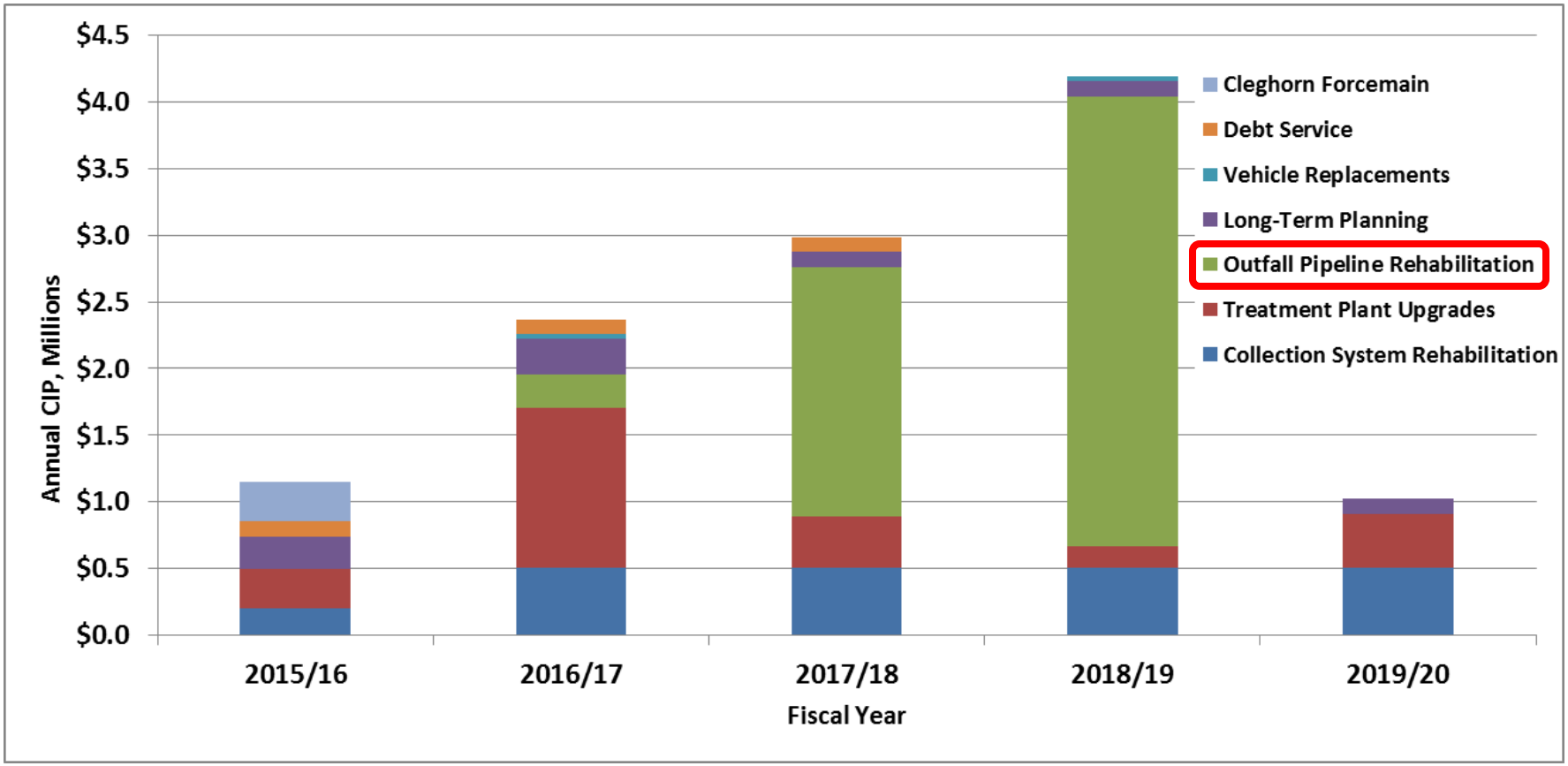
Cost/Savings Potential



Questions?

We talked about…

- History of AC Pipe
- Failure Modes of AC Pipe
- Testing Methods for AC Pipe
- Phenolphthalein dye test
- Hardness test
- Cost/Savings potential