

INFRASTRUCTURE RENEWAL



CURED IN PLACE LINING FOR NATURAL GAS & PRESSURE PIPELINES

NEW! BROADBAND ELECTRO-MAGNETIC (BEM) PIPELINE INTEGRITY ASSESSMENT FOR TRUE NDT

FULL RANGE OF PIPELINE INSPECTIONS INCLUDING CROSS BORE INVESTIGATIONS

ENVIRONMENTAL RESPONSE & INDUSTRIAL PROJECT STAFFING



PROGRESSIVE PIPELINE MGT
SINCE 2002
Genuine **PPM** Quality



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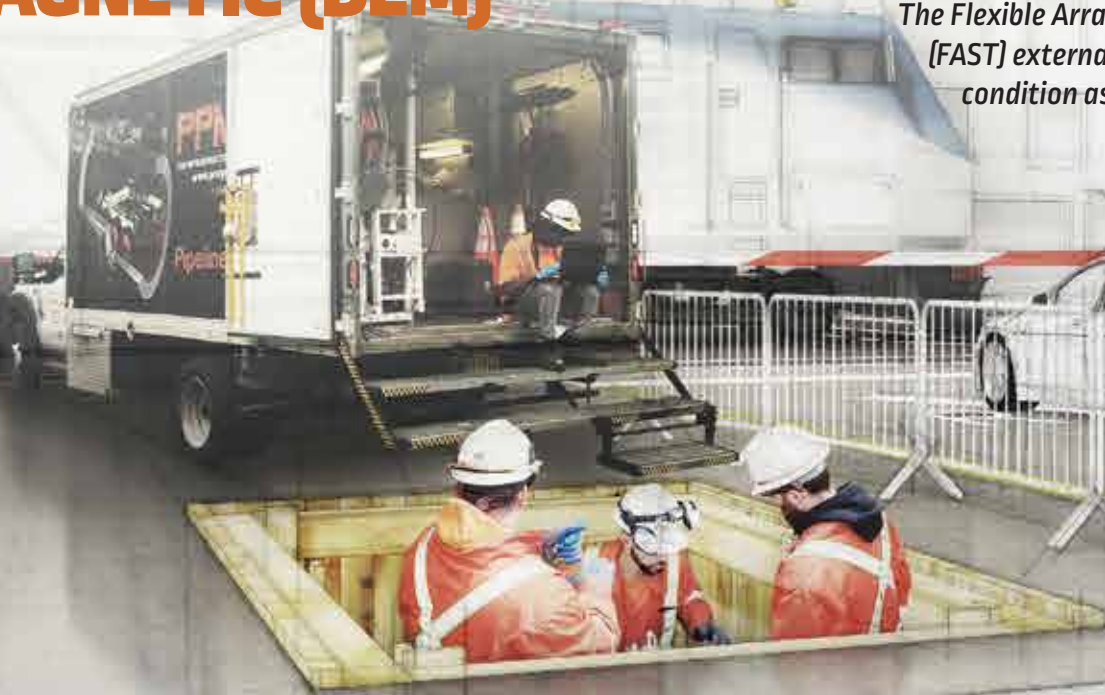
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PIPELINE WALL CONDITION ASSESSMENT: BROADBAND ELECTRO MAGNETIC (BEM)

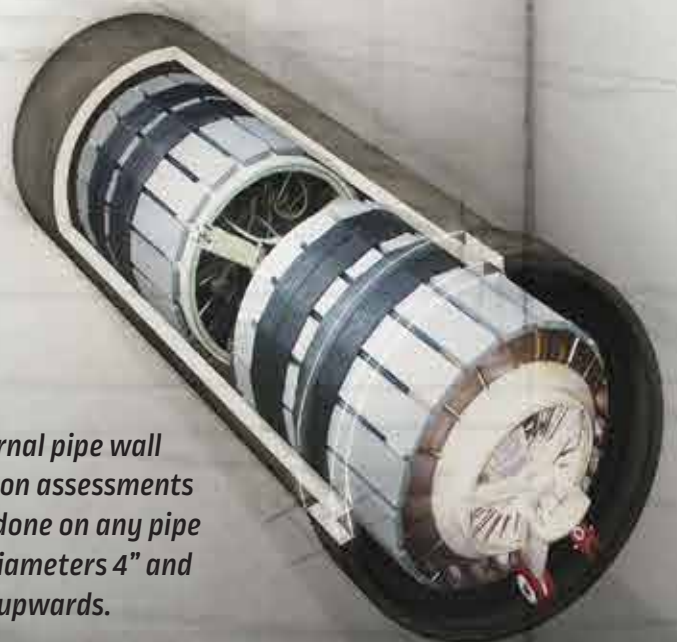


The Flexible Array Scanning Tool (FAST) external ferrous wall condition assessment.



BEM is a patented technology for main ferrous assessment. The nondestructive testing method investigates cast iron, ductile iron and steel pipelines of all diameters. The technology identifies loss of metal as little as 1mm through corrosion, abrasion or graphitization.

- Pipes of Any Size From 110mm (4inches) Diameter Upward Can be Investigated
- Surveys Through Thick Coatings and Linings Such as Epoxy, Cement Mortar, Plastic or Concrete
- A Major Advantage Over Alternative Approaches Such as Ultrasonics
- Effective for Reducing Installation Costs



Internal pipe wall condition assessments can be done on any pipe from diameters 4" and upwards.

CURED IN PLACE LINING FOR NATURAL GAS & PRESSURE PIPELINES

- Extends the Life of Cast Iron and Steel Pipelines by 100 Years
- More Than 1M feet of Starline® CIPL have Been installed Across 18 States
- Over \$14M Invested in Independent Testing by NYSEARCH/PHMSA and Cornell University
- Significant Cost Savings Compared to Direct Replacement

| | |
|--------------------------|--|
| Pipe Construction | Metallic Materials (Cast/Ductile Iron, Steel, Copper) |
| Pipe Sizes | Metallic Pipelines from 4" - 48" |
| Pipe Lengths | One-way Distances of up to 1500 feet |
| Pressure Ratings | Three liners Available - 100 psi, 180 psi & 250 psi |
| Line Thru Offsets | Multiple 45s, Open Valves, Tees |
| In-Pipe Robotics | Services/Laterals Reinstated Without Excavation |
| Longevity ASTM Standards | 100 + Years of Service Tested by NYSEARCH Fully Conforms to F2207-02 and F2207-06 |



FULL RANGE OF PIPELINE INSPECTIONS



- Latest in Pipeline Inspection Technology Including Cross Bore Lateral Investigations
- Identify and Locate Sewer Laterals Prior to Drilling
- Team Backed by Investment of \$3 M in Equipment, Staff, Training and Infrastructure
- Full Inspection Services for Pipelines from 1" to 60"
- Inspects laterals from Mainline Sewer up to 150 feet and 360°
- Pre-drill Markouts, Inspections and Post-drill Inspections



- Master Controller Enables Remote Control Operation
- Forward Camera Captures Mainline Video and Monitors Lateral Camera Launch
- Rear-facing Camera Monitors Push Cables When in Reverse and During Retrieval

ENVIRONMENTAL RESPONSE & INDUSTRIAL PROJECT STAFFING



EMERGENCY RESPONSE

- Oil Spill Response
- 24 hr Land and Marine Based Response
- Inland Area Response Specialists
- Advanced Rail Car Specialists
- NIMS Incident Command System Staff
- Infectious Substance Specialists

ENVIRONMENTAL PROJECT STAFFING

- OSHA 40 HAZWOPER Trained Employees
- Confined Space Entry (CSE) Specialists
- Facility, Warehouse & Plant Maintenance
- Continuous Training & Monitoring
- Industrial Vacuum Services (Air-Movers)



INNOVATION QUALITY TRUST

PPM is full service contractor and team of highly skilled infrastructure pipeline renewal specialists. Since 2002, the company has been committed to improving the safety and longevity of pipeline infrastructure. PPM's primary expertise include trenchless technologies to restore aging, damaged or leaking underground infrastructure and pipelines of all types and sizes.

PPM **PROGRESSIVE
PIPELINE
MANAGEMENT**

THE INFRASTRUCTURE RENEWAL SPECIALISTS

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