



FAILURE ANALYSIS

OUTCOMES

- Root causes for pipeline and structural failures
- Litigation and regulatory review support
- Design, operation and maintenance improvements to prevent future failures
- Recommendations for repair and mitigation plans

EXPERTISE

- Structural engineering
- Large scale testing
- Finite element analysis
- Fracture mechanics assessment
- Material testing

EXAMPLE APPLICATIONS

- Pipeline girth weld failure due to large ground movement
- Thermal-induced buckling and rupture of oil pipeline
- Mechanical connection failure in pipeline
- Vibration-induced failure of piping and valve components
- Material wear and fracture of rotating equipment

