

Methods for Rehabilitation: Service Laterals & Tap Connections

Clearly, based on a community’s circumstances, there is not one methodology that rules, but there are guidelines that honor priorities. Referencing the Decision Support Matrix, draw your own conclusions for the optimum trenchless methodology for rehabilitating service laterals in your community.

Decision Criteria	Lateral Injection Grouting	CIPP Lateral Connection Lining	Pipe Bursting	Open Cut
Time to Benefit	Immediate	1-2 days	3-4 days	5 days
Disruption to Owner	None	Minimal	Moderate	Considerable
Disruption to Community	None to Minimal	Minimal	Moderate	Considerable
Cost per Lateral Tap Connection	\$350 - \$450	\$1,500 - \$3,000	\$1,000 - \$1,500	\$1,000 - \$1,500
Cost per Lineal Foot	\$20 - \$25 per Lineal Foot	\$60 - \$75 per Lineal Foot	\$80 - \$90 per Lineal Foot	\$100 per Lineal Foot
Longevity	25 years (WEF, 2017)	50 Years	50 Years	50 Years
Advantages	Least cost, lateral trench stabilization, no reduction of capacity. Air test before and after to validate seal.	Full pipe renewal minimally invasive	New HDPE or PVC pipe installed and upsized as necessary	New HDPE or PVC pipe in-stalled and upsized as necessary
Disadvantages	Non-structural only, no renewal of pipe	High cost, may not stop infiltration. Many systems require cleanout .	Costly and requires access pits	Most disruptive
Other Considerations	Whether or not a structural solution is needed	Need to specify seals, clean out most likely required	Access/disruption to surface, soil type, heave potential , surrounding utilities	Surface restoration, surrounding utilities, down time