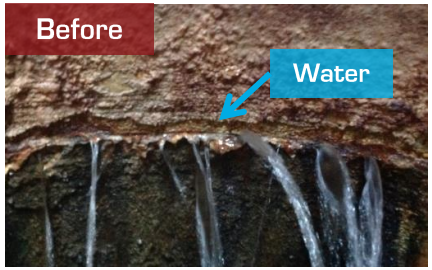
Manhole Infiltration Repair

Clarksville, IN

GROUND WORKS SOLUTIONS



Project Challenges	Solution	Support	Outcome
• TV inspection showed large amounts of Inflow and Infiltration (I&I) in 7 manholes • I&I caused flow to exceed pump station design • High ground water table (at grade in some locations) • Failure in structure joints and pipe to structure joints	• Inject URETEK 486Star Polymer directly through manhole walls and through base of structure, beneath pipe invert to fill voids and seal leaks • Where other methods failed, GWS successfully mitigated infiltration	• Designed injection quantity, depth, and location to address I&I in the 12" sanitary manhole intersections as well as the structure joints	• Work completed in a day and a half • Stopped high pressure leaks in minutes • Significantly reduced I&I flowing through sanitary system to pump station saving the City over $90K per month • **Since repair, 49 pump hours per week reduced to 17** • **Cost savings of $100k per month since repair**