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HDD CONSTRUCTION OF TWO GRAVITY DRAINAGE LEAKAGE WELLS IN MUNICIPAL SOLID WASTE

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ABSTRACT: This paper describes the construction and instrumentation of two gravity drainage wells in municipal solid waste. The first well, 740 feet long, was constructed in the summer of 2005 with the second well, 900 feet long, being constructed during the winter of 2006. Instrumentation was installed on the drill rig and on the carrier casing to monitor the drill rig operation during pilot bore drilling and carrier pipe installation. Sensors were installed inside the carrier casing to determine leachate temperature, pipe load, pipe strain, and pipe ring deflection. Lessons learned from these two unique installations are also presented.