

Presentation Title:

MassDEP Underground Injection Control Program Guidelines for Ground Source Heat Pump Wells

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Abstract: Ground source heat pump (GSHP) wells installed in Massachusetts have required registration with the Underground Injection Control (UIC) Program since May 1982. Due to the increase in the number of GSHP wells being installed in Massachusetts in recent years, MassDEP has developed a document titled *Guidelines for Ground Source Heat Pump Wells*. These guidelines were adopted by MassDEP in February 2009 and revised in March 2009. This presentation will indicate the types of GSHP wells that are regulated by the UIC program and the UIC registration submittal requirements. The most significant requirements related to GSHP well installations will be addressed including the required set-back distances, the types of well additives that are allowed, well installation requirements, and water quality testing requirements. Other state and local regulations that may apply will also be presented. Finally, concerns about water quality and long-term aquifer storage impacts will be addressed.