



Missouri Department of Health and Senior Services

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TO: Local Public Health Agencies and other local Onsite Sewage Agencies
Environmental Public Health Specialist V's

THROUGH: Mark Jenkerson, Chief
Bureau of Environmental Health Services

FROM: James Gaughan, P.E.
Onsite Wastewater Treatment Program

SUBJECT: Experimental Protocol for Quick4 EQ36, Quick4 Plus EQ36 LP, and Quick4 Plus
Standard LP chambers

DATE: April 23, 2012

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The Department of Health and Senior Services, Onsite Wastewater Treatment Program has reviewed and accepted the Infiltrator Systems, Inc. (ISI) proposed innovative/experimental system protocol for sizing soil treatment systems using Quick4 EQ36, Quick4 Plus EQ36 LP, and Quick4 Plus Standard LP chambers. A copy of the experimental protocol is available from the Onsite Wastewater Treatment Program. The Quick4 EQ36 chamber is described as 22 inches wide by 12 inches tall, the Quick4 Plus EQ36 LP chamber as 22 inches wide by eight (8) inches tall, and the Quick4 Plus Standard LP chamber as 34 inches wide by eight (8) inches tall. Installation of up to 500 of each chamber system is allowed under this protocol. Following are general guidelines for considering proposed chamber systems under the accepted protocol.

Where these chambers are to be used, the chamber and sizing must be specified in the design and permit application. Under the experimental protocol, the Quick4 EQ36 and Quick4 Plus EQ36 LP would be sized at 3.0 square feet per foot of trench length, and the Quick4 Plus Standard LP chambers would be sized at 4.0 square feet per foot of trench length. Except for the sizing allowed under this protocol, system designs must comply with accepted design practices and with state and local standards including minimum vertical separation, layout, and distribution requirements. A DHSS registered onsite wastewater treatment system installer must install the chamber systems in compliance with state and local standards. In addition, the installer must follow the manufacturer's recommended installation procedures.

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Under the innovative/experimental protocol, Infiltrator Systems, Inc. will notify property owners regarding the experimental status and will warrant system performance. Ten of the first 20 installations of each model will be selected for monitoring. After 24 months, a licensed engineer will conduct a field evaluation of the ten systems selected for each model. In addition, evidence of any system malfunction and any potential warranty issue related to systems installed under this protocol must be reported to the Onsite Wastewater Treatment Program.

DHSS does not endorse any brand or specific product model. However, a system using the Quick4 EQ36, Quick4 Plus EQ36 LP, and Quick4 Plus Standard LP chambers may be approved by local administrative authorities as part of an onsite wastewater treatment system when the proposed system design complies with the experimental sizing and the requirements of the state minimum standards, or local standards, which can be more stringent. Approval may be discontinued at any time, if warranted by subsequent field experience with installed systems.