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**NOTICE**

To: Underground Storage Tank (UST) Owners and Operators and Eligible Contractors

From: Edward Winner, UST Branch Manager

Date: August 11, 2016

Subject: Double-Cased, Bedrock Monitoring Wells Specifically Directed by the UST Branch

401 KAR 42:250 Section 2.8 of the Contractor Cost Outline (July 2011), provides a cost for installation of a PVC monitoring well in bedrock. While the cited cost is sufficient for many such wells, it is insufficient for double-cased wells in which the overburden is greater than five (5) feet. UST Branch will, if site conditions necessitate, direct double-cased, bedrock monitoring wells. Reimbursement for such wells will be consistent with TABLE 1 Additions, below.

<b>TABLE 1 Additions</b>		
<b>TASK</b>	<b>PREVIOUS RATE</b>	<b><u>INCREASED RATE</u></b>
Installation of PVC monitoring well in bedrock: includes but is not limited to, decontamination of down-hole equipment, grout or backfill material, development of well, personnel time for soil sample collection, surface completion, preparation and submission of well records. An additional \$75 per foot will be added for each well installed over 30'.	\$2,355 per well up to 30' in depth (with soil sampling)	<b><u>\$3,155</u></b> per well up to 30' in depth (with soil sampling)
	\$2,055 per well up to 30' in depth (without soil sampling)	<b><u>\$2,855</u></b> per well up to 30' in depth (without soil sampling)

In order to receive reimbursement at the increased rate for bedrock well installation, the contractor shall:

1. Install permanent outer casing one (1) foot below the soil/bedrock interface. Permanent outer casing shall be installed in accordance with 401 KAR 6:350 Section 2(3). **Temporary outer casing is NOT permitted.**
2. Install the bedrock well i) as specified in the directive received from the UST Branch; and ii) in accordance with Kentucky monitoring well construction practices and standards.<sup>1</sup>

<sup>1</sup> 401 KAR 42:250 Contractor Cost Outline

3. Provide all documentation confirming as-built well construction design. At a minimum, this includes the following: well installation photos, soil-boring logs, rock coring logs, well construction diagrams, and Uniform Kentucky Well Construction Records.<sup>2</sup> All as-built documentation for bedrock monitoring wells shall be certified by a professional geologist (P.G.) registered in the Commonwealth of Kentucky.

At least two (2) weeks prior to installing **any** bedrock monitoring wells, the contractor shall contact the UST Branch to verify the drilling plan and well construction design included in the written directive, and to provide UST Branch staff an opportunity to be onsite during drilling and well installation activities.

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<sup>2</sup> 401 KAR 6:350