

Well Installation

Well Installation Capabilities

Lankelma Inc installs wells using the direct push method. Typical well dimensions include 0.5 to 2.0 inches nominal diameter. Lankelma Inc is highly adaptable and can work with a wide variety of site and sampling requirements.

Advantages

The installation rate of direct push wells are unparalleled when compared to conventional drilling techniques. In softer soils, average installation rates of 70 feet per hour are typical for simple wells.

Lankelma Inc's wells are "pushed" rather than "drilled", so there is no soil waste that can potentially be defined as hazardous. Conventional rotary drilling methods can produce several cubic feet of expensive hazardous waste.

Direct push well types

Listed below are the most common well installation techniques used by Lankelma Inc. The development of each method is traced back to fit a client's specific needs. Screen materials can vary, although the most common are slotted PVC, stainless steel, or porous filter material. Miniature soil gas sampling wells can also be installed.

0.5 inch OD PVC well: For deep well installation, Lankelma Inc developed a method for installing 0.5 inch OD PVC pipe fitted with a PVC screen(s). The screen and riser sections are protected during the penetration by the push rods. These wells, or piezometers, have been placed by Lankelma at depths of up to 200 feet.

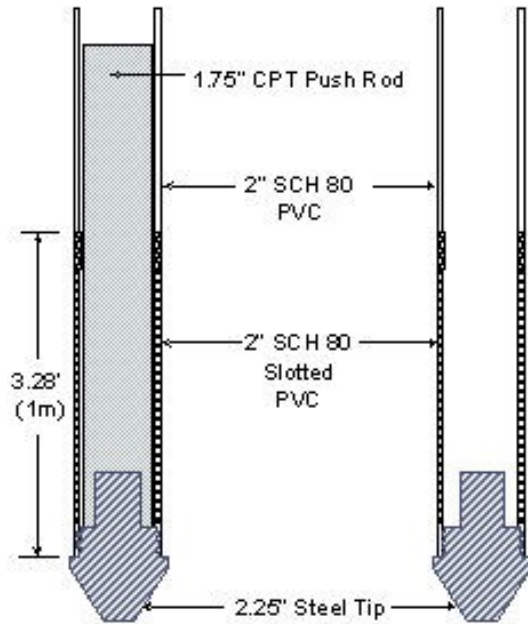
1.5 inch ID PVC well : For routine temporary well installation, Lankelma Inc installs a 1.5 inch ID PVC pipe fitted with PVC screen(s). Because these wells are installed with the PVC casing on the outside, no grout or sand-pack is required. Developing the well by purging, usually unnecessary, can clear the screen and immediate area of silts increasing the recharge rate. These wells have been set by Lankelma at depths of up to 80 feet.

2.0 inch ID PVC Well (see figure on next page) : A 2.0 inch ID PVC well is installed using the same method as the 1.5 inch PVC well, only using larger proportions. The PVC well material and the CPT rod dimensions are larger. The steel well tip can be replaced with nylon, saving material costs. At a 2.0 inch ID, most sampling equipment can be lowered. Two-inch wells, even with added surface friction, have been installed deeper than 60 feet.

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2.0 inch well

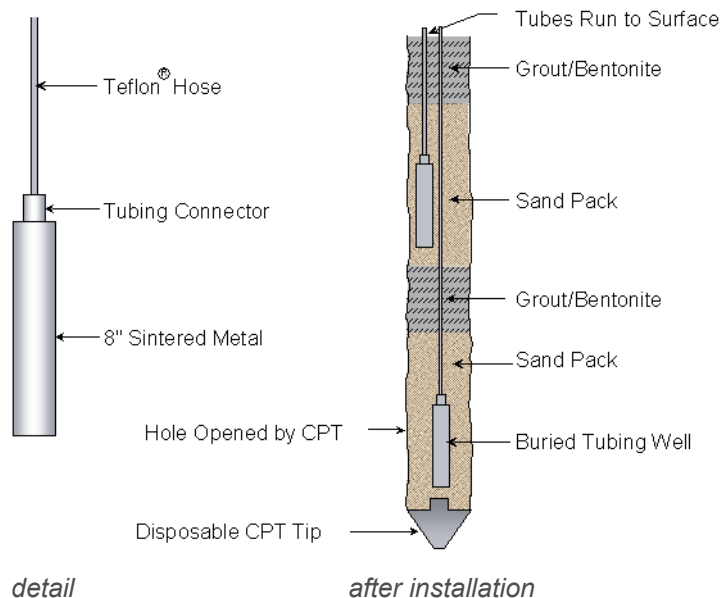


during installation

after installation

CPT Push Rod Well - Temporary Well : This method is similar to one of Lankema Inc's water sampling techniques, only the push rods themselves are left in place to act as well casing. The rods can be later retrieved.

Miniature Point Monitoring Well (see figure below) : The CPT push rods can be used to install water or soil gas sampling points.



detail

after installation

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