

## Pit And Alcove Wells

January 2026

Well pits and alcoves are below-ground enclosures that contain a wellhead, pressure tank and associated water system components. Well pits and alcoves are designed to prevent the wellhead and water supply equipment from freezing and to promote a sanitary wellhead area. Well pits and alcoves were common before the invention of the pitless adapter in the early 1950s. Pitless adapters rapidly replaced well pits and alcoves as the preferred method to provide protection from freezing. A pitless adapter creates less risk of contaminating groundwater and will cost significantly less to construct than well pits or alcoves.

### Important Facts About Well Pits And Alcoves

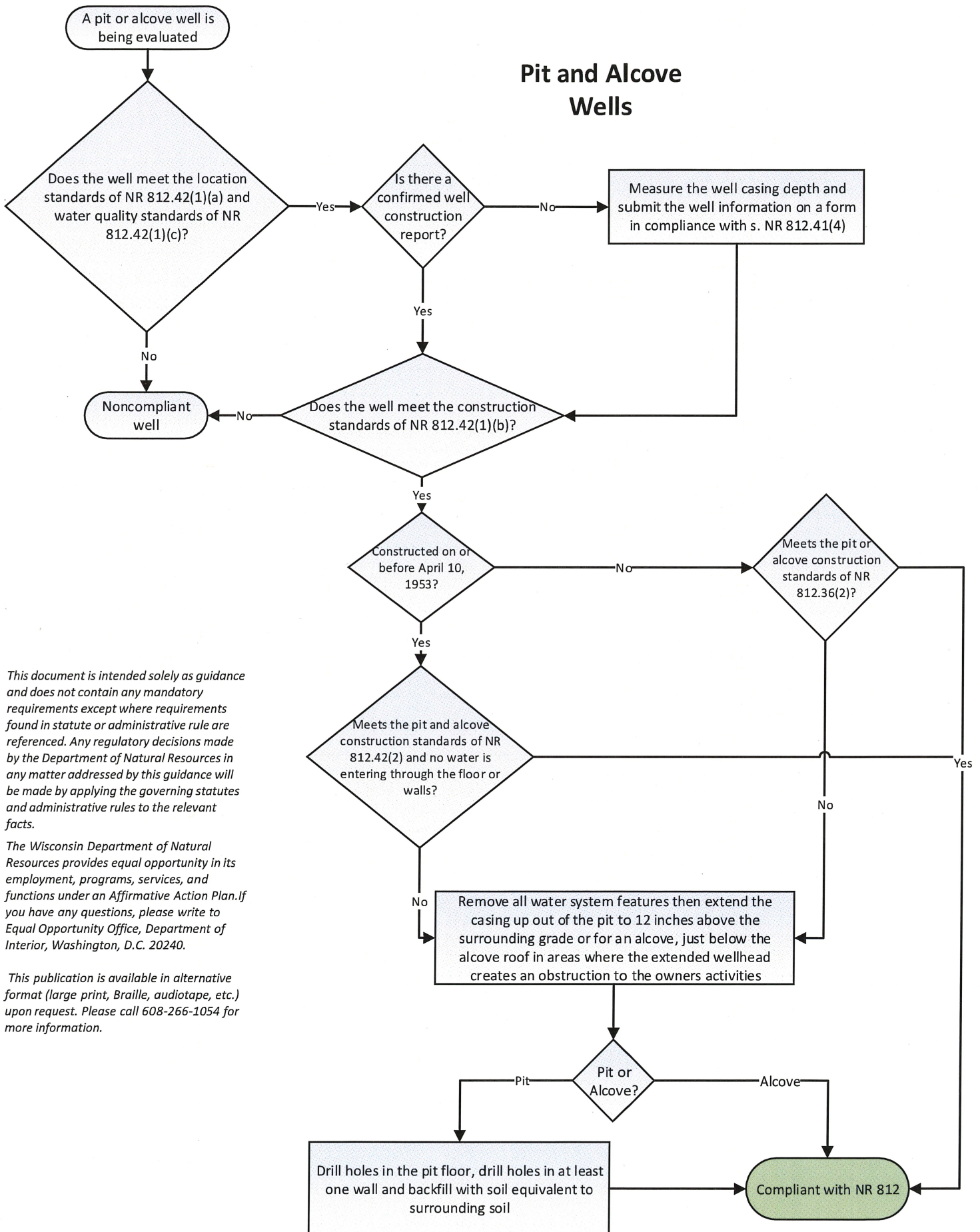
- **DNR Approval** – A well pit constructed after April 10, 1953, requires approval from the DNR to verify that the pit construction standards of NR 812.36 are met. The construction specifications are provided in s. NR 812.42(2) for well pits constructed on or before April 10, 1953, and in s. NR 812.36(2) for all other well pits. Extending the casing out of a noncompliant pit constructed on or before April 10, 1953, is a more common practice, requires no DNR approval and typically costs less than modifying the construction of the pit.
- **Alcoves** – An alcove (also referred to as a subsurface pumphouse) is a well pit that shares a wall with the foundation of a basement and has access from the basement. When a well is extended out of a pit, the pit must be backfilled. When a well is extended out of an alcove, the alcove does not have to be backfilled.
- **Casing Height** – The minimum casing height for an existing well installed within a pit or alcove is six inches if installed on or before April 10, 1953, and 12 inches if installed after April 10, 1953. A pit or alcove well installed on or before April 10, 1953, that has less than a six inch casing height must be extended out of the pit or alcove to 12 inches above the outside grade or the pit or alcove roof if the extension causes an obstruction.
- **Water Entry** – If water enters into a well pit through the walls or floor, the casing must be extended out of the pit and the pit backfilled. If water enters into an alcove through the walls or floor, the casing must be extended out of the alcove. If the basement adjacent to an alcove is subject to flooding, the well must be filled and sealed.

This document is intended solely as guidance and does not contain any mandatory requirements except where requirements found in statute or administrative rule are referenced. Any regulatory decisions made by the DNR in any matter addressed by this guidance will be made by applying the governing statutes and administrative rules to the relevant facts.

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