

MONITORING WELL DESIGN REQUIREMENTS

- 1) The screen in a ground water monitoring well must extend a minimum of fifteen feet into the ground water unless hydrogeologic conditions warrant otherwise. The screen must extend a minimum of one (1) foot above the seasonal high water table.
- 2) The filter pack must extend a minimum of one (1) foot above the top of the screened interval. The filter pack must be gravel with sieve analysis appropriate for the screen slot size.
- 3) A five (5) foot solid section of pipe should extend below the perforations.
- 4) The well must be capped at both ends.
- 5) The top of the well must be protected from damage and vandalism. Where subject to traffic there must be an appropriate box. If subject to flooding, the top of the well should extend a minimum of twelve (12) inches above the ground surface with an appropriate cover. In all locations a locking device must be provided.
- 6) There shall be a seal surrounding the well casing to prevent the flow of surface water in and along the edge of the bore hole. A bentonite plug of no greater than two foot thickness shall be placed directly above the gravel pack. The annulus must be sealed from the bentonite plug to the surface with cement and bentonite mixture.
- 7) An upgradient groundwater monitoring well shall be located at the most distant upgradient point of the facility property, but not more than 250 feet from the outer edge of the land disposal system.
- 8) A downgradient groundwater monitoring well shall be located at least 10 feet and not more than 50 feet from the outer edge of the land disposal system and in the direction of the underground flow of the pollutant plume.
- 9) Casing must have a minimum inside diameter of 2 inches.
- 10) All monitoring wells must be drilled by a water well driller licensed in the State of Nevada.
- 11) Monitoring wells constructed pursuant to Division of Environmental Protection permit of Order require design approval prior to well construction.
- 12) All monitoring well construction requires a waiver from Nevada Division of Water Resources (702) 687-4380.

NDEP 10/90