

01-06-15-03

WATER WELL, CLOSED LOOP WELL, AND WATER SUPPLY ORDINANCE

Preamble

This ordinance is established to eliminate disease transmission and chemical poisons through provision of a safe, potable, and adequate supply of water for drinking, culinary, geo-thermal and sanitary purposes for every individual within the health jurisdiction.

SECTION I DEFINITIONS

Closed Loop Well means a sealed, watertight loop of pipe buried outside of a building foundation intended to recirculate a liquid solution through a heat exchanger but is limited to the construction of the bore hole, piping in the bore hole, heat exchange fluid, and the grouting of the bore hole and does not include the piping and appurtenances used in any other capacity. Closed loop well does not include any horizontal closed loop well systems where grouting is not necessary by law or standard industry practice.

County Health Department means the Bond County Health Department.

Public Water System means a system for the provision to the public of piped water for human consumption, if the system has at least 15 service connections or regularly serves an average of at least 60 days per year. A public water system is either a community water system (CWS) or a non-community water system (non-CWS). The term Public Water System includes any collection, treatment, storage and distribution facilities under control of the operator of such system and used primarily in connection with such system and any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system.

Community Water System means a public water system which serves at least 15 service connections used by residents or regularly serves at least 25 residents at least 60 days a year.

Non-Community Water System means a public water system that is not a community water system, and has at least 15 service connections used by non-residents, or regularly serves 25 or more non-resident individuals daily for at least 60 days a year.

Semi-Private Water System means a water supply which is not a public water system, yet which serves a segment of the public other than an owner-occupied single family dwelling.

Water Well means any excavation that is drilled, cored, bored, washed, driven, dug, jetted, or otherwise constructed when the intended use of the excavation is for the location, diversion, artificial recharge or acquisition of ground water, but such term does not include an excavation made for the purpose of obtaining or prospecting for oil, natural gas, minerals or products of mining or quarrying or for inserting media to re-pressure an oil or natural gas bearing formation or for storing petroleum, natural gas, or other products for observation or any other purpose in connection with the development or operation of a gas storage project.

SECTION II ADOPTION BY REFERENCE

In addition to those provisions set forth, this Ordinance shall be interpreted and enforced in accordance with provisions set forth in the following statutes, rules, and regulations of the State of Illinois, Department of Public Health and any subsequent amendments or revisions thereto, which publications are incorporated herein and adopted by reference as part of this Ordinance. Copies of the below Regulations shall be available at the County Health Department Office.

- 1) "Illinois Water Well Construction Code" (77 Ill. Adm. Code 920)
- 2) "Illinois Water Well Pump Installation Code." (77 Ill. Adm. Code 925)
- 3) "Public Area Sanitary Practice Code." (77 Ill. Adm. Code 895)
- 4) "Drinking Water Systems Code." (77 Ill. Adm. Code 900)
- 5) "Surface Source Water Treatment Code." (77 Ill. Adm. Code 930)
- 6) "Illinois Water Well and Pump Installation Contractor's License Code." (77 Ill. Adm. Code 915)

SECTION III WATER SUPPLY LOCATION, CONSTRUCTION, AND REPAIR

- A. Water wells. Except as otherwise herein provided, the location, construction, repair, deepening, modifying, sealing, and disinfection of water wells, and the installation of water well pumps, shall be in accordance with the requirements set forth by the Illinois Department of Public Health Illinois Water Well Construction Code (77 Ill. Adm. Code 920) and Illinois Water Well Pump Installation Code (77 Ill. Adm. Code 925).
- B. Surface Water Supplies. All water systems which receive their source of water from ponds, lakes, streams, rivers or other surface collectors of water shall be designed, constructed, and operated in accordance with the Illinois Department of Public Health Surface Source Water Treatment Code (77 Ill. Adm. Code 930).
- C. Cisterns. Cisterns shall not be used for a water supply except where adequate groundwater resources are not available. Cistern water and surface water supplies shall

receive treatment in accordance with the Illinois Department of Public Health Surface Source Water Treatment Code (77 Ill. Adm. Code 930).

- D. Closed Loop Wells. Except as otherwise herein provided, the location, construction, modifying, and sealing of closed loop wells shall be in accordance with the requirements set forth by the Illinois Department of Public Health Illinois Water Well Construction Code (77 Ill. Adm. Code 920.)

SECTION IV DISINFECTION AND ANALYSIS

All components of a new water well construction and/or modification shall be thoroughly disinfected with a sufficient chlorine solution which will yield a dosage of at least 100 parts per million to the water in the well and piping system. After purging the water system of any chlorine residual, a water sample shall be taken and analyzed by a certified laboratory and satisfactory results obtained prior to utilizing the water system for drinking and culinary purposes. The copy of the analysis shall be filed with the County Health Department. The water obtained from a semi-private water supply shall meet the requirements of the Public Area Sanitary Practice Code, Section 895.20 b), and the water obtained from a private well shall meet the bacteriological and nitrate requirements of the Primary Drinking Water Standards (35 Ill. Adm. Code 611). The water from a private water system, having surface water as its source, shall meet the nitrate/nitrite, bacteriological and turbidity requirements of the Primary Drinking Water Standards (35 Ill. Adm. Code 611).

SECTION V EXEMPTIONS

The requirement for permit in this ordinance shall not be applicable to wells intended to serve a community public water supply system, and to monitoring wells.

SECTION VI PERMIT REQUIRED

- A. No water well shall be constructed, deepened, modified, or sealed in this county, except in accordance with these regulations, and it shall be unlawful to proceed with the construction, deepening, modifying, or sealing of a water well without first obtaining a permit from the County Health Department.

- B. A non-community public water supply shall not be operated without first obtaining a permit from the Illinois Department of Public Health.
- C. No closed loop well shall be constructed, modified, or sealed, in this county, except in accordance with these regulations, and it shall be unlawful to proceed with the construction, modifying, or sealing of a closed loop well without first obtaining a permit from the County Health Department.

SECTION VII
APPLICATION FOR PERMIT

- A. Applications for permits for water wells shall be in writing and in such form that shall be prescribed by the County Health Department. All applications for permit shall include a plan and drawing of the proposed location. At a minimum the plan shall include all items included in Section 920.130 b) 1-9) in the Illinois Water Well Construction Code. A permit is void if construction has not commenced within one year after the date of issuance. The fee for the permit shall be \$100.00.
- B. Applications for permits for closed loop wells shall be in writing and in such form that shall be prescribed by the County Health Department. All applications for permit shall include a plan and drawing of the proposed location. At a minimum the plan shall include all the items included in Section 920.200 b) 1-6) in the Illinois Water Well Construction Code. A permit is void if construction has not commenced within one year after the date of issuance. The fee for the permit shall be \$100.00 for the first 10 closed loop well boreholes drilled, and \$10.00 for each additional borehole drilled. The fee to abandon each individual closed loop well system using up to 10 closed loop wells shall be \$100.00 and \$10.00 for each additional closed loop well after 10.

SECTION VIII
REQUIRED INSPECTION

The County Health Department shall be notified by telephone or in writing at least 48 hours prior to the commencement of any work to construct, modify, deepen, or seal a water well for which a permit has been issued, or any work to construct, modify, or seal a closed loop well for which a permit has been issued.

SECTION IX
VIOLATIONS

Any person violating any provision of this ordinance, upon conviction, shall be fined not less than one hundred dollars (\$100.00), nor more than seven hundred fifty dollars (\$750.00). Each day the violation continues shall constitute a distinct and separate offense.

SECTION X
LICENSING OF WELL DRILLERS AND PUMP INSTALLERS

- A. All individuals who construct water wells and install well pumps shall be licensed by the Illinois Department of Public Health in accordance with the Water Well and Pump Installation Contractor's License Code (77 Ill. Adm. Code 915).
- B. All individuals who construct closed loop wells shall hold a Certificate of Registration from the Illinois Department of Public Health in accordance with the Illinois Water Well Construction Code (77 Ill. Adm. Code 920).

SECTION XI
REPEAL AND DATE OF EFFECT

All ordinances and parts of ordinances in conflict with this ordinance are hereby repealed, and these rules and regulations shall be in full force and effect immediately upon its adoption and publication as provided by law.

SECTION XII
UNCONSTITUTIONALITY CLAUSE

Should any section, paragraph, sentence, clause or phrase of this ordinance be declared unconstitutional or invalid for any reason, the remainder of this ordinance shall not be affected thereby.

SECTION XIII
EFFECTIVE DATE

This ordinance shall become effective after JANUARY 6, 2015.

Passed this 6th day of JANUARY, 2015 by the Bond County Board.

Bond County Clerk
