

3745-9-01

DefinitionsWell standard definitions.

Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code shall apply to this chapter.

~~(A) Except as otherwise noted, the definitions in rule 3745-81-01 of the Administrative Code shall apply to this chapter.~~

~~(B)~~(A) "Abandoned"

(1) "Abandoned well" means a well, test hole, or dry hole whose use has been permanently discontinued.

~~(C)~~(2) "Alter" or "alteration" means to make a substantial change in construction or configuration of a public water system, including without limitation: changing well pump design capacity; converting a well with a buried seal to a well with a pitless adapter or well house installation; converting a well that uses a well pit to a well with a pitless adapter or well house type of construction; deepening a well; installing a liner; or modifying, extending, or replacing any portion of the casing or borehole.

~~(D)~~(3) "API" means American petroleum institute.

(4) "Anticipated permanent design pumping rate" means the rate at which the public water system anticipates to pump water from the well during normal operation using the permanent well pump.

~~(E)~~(5) "ASTM" means the American society for testing and materials.

~~(F)~~(6) "AWWA" means American water works association.

~~(G)~~(7) "ANSI" means American national standards institute.

~~(H)~~(B) "Bentonite" means a plastic, colloidal clay which has an extensive ability to absorb water and swell in volume, and which is composed predominantly of the mineral sodium montmorillonite.

~~(I)~~(C) "Casing"

(1) "Casing" means an impervious durable pipe that is placed in a well and is used to prevent the walls from caving, and to exclude surface drainage, undesirable water or other fluids, or unwanted or harmful materials from a well.

~~(J)~~(2) "Coarse grade bentonite" means bentonite that has been crushed to a size of

three-eighths to three-quarters of an inch.

~~(K)~~(3) "Conductor pipe--gravity" means allowing cement grout to flow by gravity through a funnel or hopper connected to a conductor pipe.

~~(L)~~(4) "Conductor pipe--pumped" means pressure grouting with a conductor pipe that is lowered to the bottom of the annular space with grout pumped from the bottom up in a continuous operation. The end of the conductor pipe remains submerged and full of grout at all times.

~~(M)~~(5) "Construction and demolition debris facility" means as defined in ~~paragraph (G)~~ of rule 3745-400-01 of the Administrative Code.

~~(N)~~(D) "~~Develop~~"

(1) "Develop" or "development" means to physically remove or the process of removing all fine materials, and sediment generated during construction of the well, by means including but not limited to surging, air surging or lifting, over pumping, backwashing, high velocity jetting or bailing of the completed well.

~~(O)~~(2) "Drinking water source protection area" means the surface and subsurface area surrounding a public water supply well which will provide water from an aquifer to the well within five years as delineated or endorsed by the agency under Ohio's wellhead protection and source water assessment and protection programs.

~~(P)~~(3) "Drive shoe" means a hardened steel collar with a beveled cutting edge that is attached to the lower end of a casing by threading or welding to protect the casing as it is driven.

~~(Q)~~(4) "Drop pipe" means a pipe or pipes within a well casing which conducts water from the well to the pitless adapter or pitless unit.

~~(R)~~(5) "Dry hole" means a well that does not produce water in sufficient quantity for the intended use.

~~(S)~~(E) "Effective grain size" means the ninety per cent retained size of a sediment as determined from a grain size analysis.

~~(T)~~(F) "~~FEMA~~"

(1) "FEMA" means federal emergency management agency.

~~(U)~~(2) "Floodplain" means the area adjoining any river, stream, watercourse, or lake that has been or may be covered by flood water.

~~(V)~~(3) "Floodway" means the channel of a river or stream, and those portions of the floodplain adjoining the channel required to carry the flood discharge.

~~(W)~~(4) "Formation stabilizer" or "filter pack" means siliceous, well-rounded, clean and uniform sand or gravel that is free of contaminants and foreign matter, properly sized, washed and placed between the borehole wall and the well screen to prevent formation material from entering through the screen and to stabilize the borehole.

~~(X)~~(G) "Granular

(1) "Granular bentonite" means bentonite that has been processed to coarse granular particles ranging in size from thirty-three to ninety-three thousandths of an inch.

~~(Y)~~(2) "Grout" means a slurry of cement, bentonite, clay, or other impervious material that is used to seal a well, test hole, dry hole, or annular space. Grout specifications for sealing are in rule 3745-9-07 of the Administrative Code.

~~(Z)~~(3) "Grout displacement" method means placing a calculated volume of grout sufficient to fill the annular space plus fifteen per cent extra grout into the borehole through a conductor pipe. The grout is then pressurized to force the grout into the annular space.

~~(AA)~~(4) "Grout shoe--continuous injection" means pressure grouting by using a grout shoe with a check valve installed in the bottom of the permanent well casing and connected by a conductor pipe to the surface through which grout is pumped until the entire annular space is filled with grout. The conductor pipe is removed, the permanent casing set at the bottom of the borehole, and the grout allowed to set until cured.

~~(BB)~~(H) "Human

(1) "Human or animal waste management facility" means any of the following:

~~(+)~~(a) A class I, II, or III compost facility as defined in ~~paragraph (C) of rule 3745-27-01 and classified in~~ rule ~~3745-27-40~~ 3745-560-02 of the

Administrative Code;~~or~~.

~~(2)~~(b) A regional sewage sludge storage facility and other bulk storage facility for non-exceptional quality biosolids as defined in ~~paragraph (A) of~~ rule 3745-40-01 of the Administrative Code;~~or~~.

~~(3)~~(c) A manure storage or treatment facility, fabricated manure storage structure, manure storage pond, or manure treatment lagoon as defined in rule 901:10-1-01 of the Administrative Code;~~or~~.

~~(4)~~(d) A wastewater treatment facility as defined in rule 3745-33-01 of the Administrative Code or storage facility as defined ~~paragraph (A) of~~ in rule 3745-42-13 of the Administrative Code.

(2) "Hydrogeologic investigation" means a study of the subsurface and geologic conditions used to select the location of a well to minimize the risk that contaminants will be drawn into the well and maximize the probability that a sufficient quantity of ground water exists for the intended purpose.

~~(E)~~(I) "Inner management zone" means the surface and subsurface area within a drinking water source protection area for a public water supply system using ground water surrounding a public water supply well that will provide water to the well within one year as delineated or endorsed by the agency under Ohio's wellhead protection and source water assessment and protection programs.

(J) [Reserved.]

(K) [Reserved.]

~~(D)~~(L) "~~Land~~

(1) "Land application area", for the purposes of this chapter, means any of the following:

~~(1)~~(a) A ~~land application field, staging, stockpiling~~ beneficial use site or area used for field storage ~~area~~ for non-exceptional quality biosolids as defined ~~in paragraph (A) of~~ rule 3745-40-01 of the Administrative Code;~~or~~.

~~(2)~~(b) A land application ~~field~~area, staging area, ~~stockpiling~~ or ~~field storage~~ stockpiling area as defined in rule 901:10-1-01 of the Administrative Code;~~or~~.

~~(3)~~(C) A wastewater land application area as defined in ~~paragraph (A) of~~ rule 3745-42-13 of the Administrative Code.

~~(EE)~~(2) "Landfill" means a sanitary landfill, industrial solid waste landfill or residual waste landfill as defined in ~~paragraph (S) of~~ rule 3745-27-01, ~~paragraph (B) of rule~~ 3745-29-01, or ~~paragraph (C) of rule~~ 3745-30-01 of the Administrative Code.

~~(FF)~~(3) "Lead free" means the same as defined ~~at~~ in section 6109.10 of the Revised Code.

~~(GG)~~(4) "Liner" means a ~~perforated non-permanent~~ well casing installed within ~~a permanent~~ another well casing ~~that. A liner~~ may ~~extend~~ include a perforated section that extends into the open portion of a borehole to support the walls of the borehole and ~~allows~~ allow movement of groundwater into the well.

~~(HH)~~(M) "Monitoring"

(1) "Monitoring well" means an excavation by digging, boring, drilling, driving, or other method that is done or used to extract samples of ground water or for the purpose of determining the quality, quantity, or level of ground water.

~~(H)~~(2) "Monofill" means a scrap tire monofill as defined in ~~paragraph (S) of~~ rule 3745-27-01 of the Administrative Code.

(N)

(1) "Nonpotable well" means any well described in section 6111.42 of the Revised Code that is not used for the provision of water for human consumption. Nonpotable wells include, but are not limited to, wells used to provide water for dewatering, irrigation, non-contact cooling water, water for use in commercial and industrial processes, and water for use in open-loop geothermal heating and cooling systems.

~~(JJ)~~(2) "NSF" means the ~~national~~ National sanitation foundation.

~~(KK)~~(O) "One hundred year floodplain" means a portion of a designated floodplain that may be inundated by a flood having a one per cent chance of being equaled or exceeded in any given year.

~~(LL)~~(P) "Paeker"

(1) "Packer" means a rubber or inflatable device used to temporarily or permanently seal off a portion of the borehole, annular space or well casing.

~~(MM)~~(2) "Pelletized bentonite" means bentonite that has been processed into pellets or tablets that have a diameter of one fourth to one half inch.

(3) "Permanent design pumping rate" means the nominal capacity of the installed pump, per the manufacturer's specifications.

~~(NN)~~(4) "Pitless adapter" means an assembly of parts which will permit water to pass through the casing or extension thereof; provides access to the well and to the parts of the water system within the well; and provides for the transportation of the water and the protection of the well and water therein from surface or near surface contaminants.

~~(OO)~~(5) "Pitless unit" means an assembly which extends the upper end of casing to above grade and prevents the entrance of contaminants into the well, to conduct water from the well, to protect water from freezing or extremes of temperature and to allow access to the well and components of the pumping equipment.

~~(PP)~~(6) "Point well" means a well with casing with an integral screen and drive point that is installed by driving or jetting.

~~(QQ)~~(7) "Pressure grouting" means any of the following methods of placing a grout slurry into a well or the annular space of a well: conductor pipe-pumped; grout shoe-continuous injection; well seal with conductor pipe-pumped; grout displacement method.

~~(RR)~~(8) "Private water system" means the same as defined ~~by~~ in division (A) of section 3701.344 of the Revised Code.

~~(SS)~~(9) "Public water system well" means a well, except a monitoring well, for use by a public water system.

(Q) [Reserved.]

~~(TT)~~(R) "Radial

(1) "Radial collector well" means a water collector that is constructed as a dug well that has been sunk as a caisson. Screens are installed radially and approximately horizontally from the caisson into the aquifer.

~~(UU)~~(2) "Repair" means any work performed on a well for the purpose of servicing or replacing a component with a comparable component. Repair includes, without limitation, servicing pumps or pumping equipment, and couplings. Repair does not include a modification to the casing or wall of a well.

~~(VV)~~(S) "Seal"

(1) "Seal" means to close a well or to close a portion of a well or the annular space of a well.

~~(WW)~~(2) "Shale basket" means a conical shaped rubber packer that is attached to the bottom of the casing to seal the annular space and prevent grout from entering the open borehole or screened area of the well.

~~(XX)~~(3) "Soil absorption system" means the final treatment component of an onsite sewage treatment system that utilizes absorption and adsorption to treat and disperse the treated sewage into subsurface soils.

~~(YY)~~(4) "Source water assessment and protection program" means Ohio EPA's program based on the Safe Drinking Water Act as amended in 1996.

~~(ZZ)~~(5) "Specific capacity" means the rate of discharge of a water well per unit of drawdown, commonly expressed in gallons per minute per foot. It varies with duration of discharge and the pumping rate. Specific capacity is determined by dividing the pumping rate of the well by the measured stabilized drawdown.

~~(AAA)~~(6) "Standard dimension ratio (SDR)" means the ratio of average outside pipe diameter to minimum pipe wall thickness.

~~(BBB)~~(7) "Static water level" means the level of the water when measured from the established ground surface to the water surface in a well that is neither being pumped nor under the influence of pumping.

~~(CCC)~~(8) "Susceptibility" is the likelihood (~~high, moderate, low~~) for the source of ~~ground~~ water used by a public water system to become contaminated as determined through the source water assessment and protection program.

~~(DDD)~~(T) "Test"

(1) "Test hole" means any excavation, regardless of design or method of

construction, for the purpose of determining the most suitable site for removing ground water from an aquifer.

~~(EEE)~~(2) "Thermoplastic" means polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS).

~~(FFF)~~(U) "Uniformity coefficient" means a ratio of the sieve-size opening that will pass sixty per cent of a representative sample of the filter material divided by the sieve-size opening that will pass ten per cent of the material.

(V) [Reserved.]

~~(GGG)~~(W) "Well"

(1) "Well" means any excavation by digging, boring, drilling, driving, or other method for the purpose of removing ground water from an aquifer, except a private water system well or a monitoring well.

~~(HHH)~~(2) "Well cap" or "cap" means a device used to enclose the atmospheric termination of the well casing, and a device that covers and encloses the upper termination of a pitless unit or the well casing and provides protection to the top, exposed portion of the well casing by being tamper resistant, forming a protective cover from the elements, and being resistant to the entry of vermin or contaminants.

~~(HH)~~(3) "Wellhead protection program" means Ohio EPA's program based on the Safe Drinking Water Act as amended in 1986.

~~(JJ)~~(4) "Well house" or "pumphouse" means a building designed and constructed solely to house pumping and water system equipment.

~~(KKK)~~(5) "Well screen" or "screen" means an intake structure with uniform openings designed to retain the aquifer formation, prevent collapse of the borehole adjacent to the screen, and accommodate a yield adequate for the intended use of the well.

~~(LL)~~(6) "Well seal with conductor pipe--pumped" means pressure grouting by setting the permanent casing just above the bottom of the borehole and filling the casing and annular space with water, drilling mud or a bentonite slurry. Conductor pipe is then set inside the casing to the bottom of the borehole either through a watertight well seal or packer. Grout is pumped into the annular space displacing all other fluids in the annular space and the permanent casing set in place.

~~(MMM)~~(7) "Well vent" or "vent" means a screened opening in a well seal or cap to allow atmospheric pressure to be maintained in the well.