



Town of Chester
 Planning and Zoning
 P.O. Box 423
 Chestertown, NY 12817
 Telephone: (518) 494-7369

Application #: WP20____ - ____
 Date Received: ____/____/____
 Amt. Paid: _____

Application for Water Supply Well

Contact Information:

Property Owner's Name: _____

Mailing Address: _____

Phone (Cell and/or Home): _____ Email: _____

Applicant's Name: _____

Mailing Address: _____

Phone (Cell and/or Home): _____ Email: _____

Contractor's Name (Drilling Company): _____

Mailing Address: _____

Phone (Cell and/or Home): _____ Email: _____

Instructions for Completion of Water Supply Well Application:

It is imperative that **ALL** applicable spaces listed in this Application be completed and application is **SIGNED**. Other items that must be submitted with this Application are:

1. Site plan (*see below for minimum site plan requirements*);
2. Authorization Form. If the Application and plans are being submitted by someone other than the owner of record, the Authorization Form **must be** completed and attached with this Application; and,
3. Fee, as per Fee Schedule. Checks to be made payable to: **Town of Chester**.

General Property Information:

Physical Address (911 Location): _____ Tax Map #: _____

Proposed Well Information and Site Plan requirements:

NYSDEC Water Well Contractor (Driller) Reg. #:	GPS or approximate well location	DEC Well #

All applications for installation of a water supply well are required to be submitted to the Zoning Administrator prior to drilling. Applications shall include a site plan, as required by Section 7.24(B)(1) of the Town of Chester Zoning Local Law showing the following, as a minimum:

1. Location of the proposed water supply well;
2. Separation distance from on-site septic wastewater system;
3. Separation distance from nearby septic systems;
4. Separation distance from waterbody (i.e. stream, lake, watercourse, drainage ditch, wetland);
5. Refer to Part 5, Subpart 5-1 Standards for Water Wells, Appendix 5B "Table 1: Required Minimum Separation Distances to Protect Water Wells from Contamination", published by the New York State Department of Health (*please see attached*).

In addition, wells must meet or exceed construction standards established by County, State Law and the Town of Chester Zoning Local Law. A well may not be installed where it infringes on a neighbor's ability to develop their property for safe use and living. Further, the proposed well should not be prone to flooding or ponding of surface water.

Proposed separation distances from the proposed well to on-site septic wastewater system and common contaminant source(s) on the subject property:

Contaminant Source	Required Distance (in ft.) ¹	Proposed Distance (in ft.)
Septic Tank, Aerobic Unit, Watertight effluent line to distribution box	50 ft.	
Distribution Box	100 ft.	
Raised System or Mound	100 ft. ²	
Absorption Field or Bed	100 ft. ²	
Seepage Pit (Existing) – No longer permitted (Section 3.010 OSWT Local Law)	150 ft. ²	
Storage area for manure pile	200 ft. ³	
Stream, lake, watercourse, drainage ditch or wetland	25 ft.	

Proposed separation distance(s) from the proposed well to nearby septic wastewater systems and common contaminant sources on nearby properties:

Nearby Property Physical Address (#1): _____ **Tax Map Parcel #:** _____

Contaminant Source	Required Distance (in ft.) ¹	Proposed Distance (in ft.)
Septic Tank, Aerobic Unit, Watertight effluent line to distribution box	50 ft.	
Distribution Box	100 ft.	
Raised System or Mound	100 ft. ²	
Absorption Field or Bed	100 ft. ²	
Seepage Pit (Existing) – No longer permitted (Section 3.010 OSWT Local Law)	150 ft. ²	
Storage area for manure pile	200 ft. ³	
Stream, lake, watercourse, drainage ditch or wetland	25 ft.	

Nearby Property Physical Address (#2): _____ **Tax Map Parcel #:** _____

Contaminant Source	Required Distance (in ft.) ¹	Proposed Distance (in ft.)
Septic Tank, Aerobic Unit, Watertight effluent line to distribution box	50 ft.	
Distribution Box	100 ft.	
Raised System or Mound	100 ft. ²	
Absorption Field or Bed	100 ft. ²	
Seepage Pit (Existing) – No longer permitted (Section 3.010 OSWT Local Law)	150 ft. ²	
Storage area for manure pile	200 ft. ³	
Stream, lake, watercourse, drainage ditch or wetland	25 ft.	

Nearby Property Physical Address (#3): _____ **Tax Map Parcel #:** _____

Contaminant Source	Required Distance (in ft.) ¹	Proposed Distance (in ft.)
Septic Tank, Aerobic Unit, Watertight effluent line to distribution box	50 ft.	
Distribution Box	100 ft.	
Raised System or Mound	100 ft. ²	
Absorption Field or Bed	100 ft. ²	
Seepage Pit (Existing) – No longer permitted (Section 3.010 OSWT Local Law)	150 ft. ²	
Storage area for manure pile	200 ft. ³	
Stream, lake, watercourse, drainage ditch or wetland	25 ft.	

¹ Water well separation distances from contaminant sources shall be increased by 50% whenever aquifer water enters the water well at less than 50 feet below grade. If a 50% increase in separation distances can not be achieved, then the greatest possible increase in separation distance shall be provided with such additional measures as needed to prevent contamination.

² When these contamination sources are located in coarse gravel or are located upgrade and in the direct path of drainage to a water well, the water well shall be located at least 200 feet away from the closest part of these sources.

³ Water wells may be located 100 feet from temporary (30 days or less) manure piles/staging areas that are controlled to preclude contamination of surface or groundwater or 100 feet from otherwise managed manure piles that are controlled pursuant to regulation in a manner that prevents contamination of surface or groundwater.

Upon completion of the water supply well, the document(s) listed below must be provided to the Planning and Zoning Office:

1. NYSDEC Water Well Completion Report (to be submitted to NYSDEC, Well Owner and to the Town).

Any permit or approval granted under the Town of Chester Zoning Local Law which is based upon or is granted in reliance upon any material misrepresentation, or failure to make a material fact or circumstance known, by or in behalf of an applicant, shall be void. The undersigned hereby applies for a Zoning Permit to do the attached work in accordance with the description, plan, specifications, and such special conditions.

I, We, hereby authorize the Town of Chester, its employees, and authorized agents access to the property for purpose of inspection.

Signature of Applicant

Date

- Engineered Plans are attached
- Any permit, other than the Town of Chester that is required, is attached.

To Be Completed by the Zoning Administrator (Office Use Only)

Action Taken: Approved (Zoning Permit Issued): _____ Denied: _____

Reasons for Denial: _____

Additional Town Approvals Required: Variance: _____

Zoning Administrator

Date

AUTHORIZATION FORM
“TO ACT AS AGENT FOR”

I, _____, owner of the premises
located at: _____ in the Town of Chester,
identified by Tax Map Parcel #: _____,
hereby designate: _____,
to act as my AGENT regarding my Zoning Permit for:

Owner's Signature

Date

Agent's Signature

Date

Table 1 Required Minimum Separation Distances to Protect Water Wells From Contamination

Contaminant Source	Distance (Feet)¹
Chemical storage sites not protected from the elements (e.g., salt and sand/salt storage) ²	300
Landfill waste disposal area, or hazardous or radiological waste disposal area ²	300
Land surface application or subsurface injection of effluent or digested sludge from a Municipal or public wastewater treatment facility	200
Land surface application or subsurface injection of septage waste	200
Land surface spreading or subsurface injection of liquid or solid manure ³	200
Storage Areas for Manure piles ⁴	200
Barnyard, silo, barn gutters and animal pens ^{5,6}	100
Cesspools (i.e. pits with no septic tank pretreatment)	200
Wastewater treatment absorption systems located in coarse gravel or in the Direct path of drainage to a well	200
Fertilizer and/or pesticide mixing and/or clean up areas	150
Seepage pit (following septic tank) ⁵	150
Underground single walled chemical or petroleum storage vessels	150
Absorption field or bed ⁵	100
Contained chemical storage sites protected from the elements (e.g. salt and sand/salt storage within covered structures) ⁷	100
Septic system components (non-watertight) ⁵	100
Intermittent sand filter without a watertight liner ⁵	100
Sanitary Privy pit ⁵	100
Surface wastewater recharge absorption system constructed to discharge storm water from parking lots, roadways or driveways ⁵	100
Cemeteries	100
Sanitary privy with a watertight vault	50
Septic tank, aerobic unit, watertight effluent line to distribution box	50
Sanitary sewer or combined sewer	50
Surface water recharge absorption system with no automotive-related Wastes (e.g., clear-water basin, clear-water dry well)	50
Stream, lake, watercourse, drainage ditch, or wetland	25
All known sources of contamination otherwise not shown above	100

Notes for Table 1:

1. The listed water well separation distances from contaminant sources shall be increased by 50% whenever aquifer water enters the water well at less than 50 feet below grade. If a 50% increase in separation distances can not be achieved, then the greatest possible increase in separation distance shall be provided with such additional measures as needed to prevent contamination. See also Note 6 to Table 2.
2. Water wells shall not be located in a direct line of flow from these items, nor in any contaminant plume created by these items, except with such additional measures (e.g., sentinel groundwater monitoring, hydraulic containment, source water treatment) as needed to prevent contamination.
3. Based upon on-site evaluations of agricultural properties done per agricultural environmental management (AEM) or comprehensive nutrient management plan (CNMP) programs by a certified nutrient management planner or soil and water conservation district (SWCD) official, water wells may be located a minimum of 100 feet from areas subject to land spreading of manure.
4. Water wells may be located 100 feet from temporary (30 days or less) manure piles/staging areas that are controlled to preclude contamination of surface or groundwater or 100 feet from otherwise managed manure piles that are controlled pursuant to regulation in a manner that prevents contamination of surface or groundwater.
5. When these contamination sources are located in coarse gravel or are located updrift and in the direct path of drainage to a water well, the water well shall be located at least 200 feet away from the closest part of these sources.
6. Animal pen does not include small pet shelters or kennels housing 3 or fewer adult pets.
7. Chemical storage sites as used in this entry do not include properly maintained storage areas of chemicals used for water treatment nor areas of household quantities of commonly used domestic chemicals.

Table 2 Standards for Well Casing, Grouting, Diameter, and Screens

Water-bearing Formation	Overlying Material	Minimum Casing Length or Depth ¹	Oversize Drillhole For Grout, Diameter ¹	Casing and Grout Placement ¹	Well Diameter		
					Cased Portion	Uncased Portion	Well Screen Diameter ² (where applicable)
1. Sand or gravel	Unconsolidated caving material; sand or sand and gravel	19' minimum; but 5' below pumping level ³	None required	Grouting not required.	2" minimum	Does not apply	2" minimum
2. Sand or gravel	Clay, hardpan, till, silt, or similar material to depth of more than 15'	5' below pumping level ³	Casing size plus 2" if pressure placement of grout is used, Casing size plus 4" if gravity placement of grout is used. ^{4,5,6}	Upper drillhole shall be kept at least one-third filled with clay slurry while driving permanent casing; after casing is in the permanent position, annular space shall be filled with grout ⁵	2" minimum	Does not apply	2" minimum
3. Sand or gravel	Clay, hardpan, till, silt, or similar material containing layers of sand or gravel within 15' of ground surface.	5' below pumping level ⁴	Casing size plus 2" if pressure placement of grout is used, Casing size plus 4" if gravity placement of grout is used. ^{4,5,6}	Annular space around casing shall be filled with grout.	2" minimum	Does not apply	2" minimum

Water-bearing Formation	Overlying Material	Minimum Casing Length or Depth ¹	Oversize Drillhole For Grout, Diameter ¹	Casing and Grout Placement ¹	Well Diameter		
					Cased Portion	Uncased Portion	Well Screen Diameter ² (where applicable)
4. Creviced, shattered or otherwise fractured shale, limestone, igneous, metamorphic or similar rock types or sandstone	Unconsolidated caving material, chiefly sand or sand and gravel to a depth of 19' or more.	Through caving overburden	None required	Casing shall be firmly seated in rock. Grouting not required.	6" minimum	6" preferred	Does not apply
5. Creviced, shattered or otherwise fractured shale, limestone, igneous, metamorphic or similar rock types or sandstone	Clay, hardpan, till, shale, or similar material to a depth of 19' or more	Through overburden	Casing size plus 2" if pressure placement of grout is used, Casing size plus 4" if gravity placement of grout is used. ^{4,5,6}	Casing shall be firmly seated in rock. Annular space around casing shall be grouted.	6" minimum	6" preferred	Does not apply
6. Creviced, shattered or otherwise fractured shale, limestone, igneous, metamorphic or similar rock types or sandstone	Unconsolidated materials to a depth of less than 19'	19' minimum	Casing size plus 2" if pressure placement of grout is used, Casing size plus 4" if gravity placement of grout is used. ^{4,6}	Casing shall be firmly seated in rock. Annular space around casing shall be grouted.	6" minimum	6" preferred	Does not apply

Notes for Table 2:

1. In the case of a flowing artesian well, attempts should be made to install and seal the well in a manner that protects the artesian aquifer, prevents erosion of overlying geologic materials, and confines the flow to within the well casing, giving due consideration to practicality, cost, and safety.
2. These diameters shall also be applicable in circumstances where the use of perforated casing is deemed practicable. Well points commonly designated on the trade as 1 1/4" pipe shall be considered as being 2" nominal diameter well screens for purposes of these regulations.
3. As used in this table, the term "pumping level" shall refer to the lowest elevation of the water in a well during pumping, determined to the best knowledge of the water well contractor taking into consideration usual seasonal fluctuations and drawdown.
4. Pressure placement includes methods of grout placement using pumps and tremie tubes or using grout displacement through the casing, or otherwise from the bottom up around the casing, with one or more drillable plugs. When pressure placement is used with a borehole diameter of only 2" greater than the casing diameter, casing shall be assembled without couplings unless installed per the "Casing and Grout Placement" technique described on Line "2" of this Table. Gravity placement includes any method that relies on gravity to draw grout, either dry or as a slurry, down into the annular space between the casing and borehole or between an inner casing and outer casing.
5. For wells constructed by cable tool, hollow rod, jetting, or other drilling method where the permanent casing is driven, and where neither temporary casing nor an oversize borehole are used, dry driven grout methods using granular bentonite may be used. These methods use continuous feeding of granular bentonite into a starter hole or continuous mounding around the casing as the casing is driven. Collar flared joints or weld beads extending beyond the outside diameter of the permanent casing shall be used with sufficient spacing to ensure that the grout seal is continuous and extends downward into the saturated zone (i.e., beneath the water table).
6. The oversized borehole for grout placement should be as deep as necessary, based upon local hydrogeologic conditions and potential contaminant sources, to prevent contamination from entering the well. Grout should be placed along the full length of casing, particularly where the presence of non-caving unconsolidated materials, coarse gravel, or creviced, shattered, or fractured rock may result in pathways of contamination to a well water system. Where this is not feasible because of practicality, cost or safety, grout shall be placed at least to a minimum depth of 19 feet. See also Note 1 to Table 1.