Code Enforcement Officials (CEO) provide a critical role in reviewing the location and construction of individual (residential) potable water supply (IWS) wells prior to issuing building permits and certificates of occupancy. The New York State Residential Code subsection P2602.1.1 requires IWS wells be located and constructed according to New York State Department of Health (DOH) 10NYCRR Appendix 5-B standards to reduce the risk of contamination and maintain a long term water supply for homeowners. Improperly constructed or located wells can pose a significant risk for contamination of a well.

COMPLIANCE WITH WATER WELL CONSTRUCTION REGULATIONS AND WELL CONTRACTOR REQUIREMENTS

New and replacement IWS are required to be in compliance with the NYS Residential Code (which references Appendix 5-B “Standards for Water Wells”), installed by a certified NYS Department of Environmental Conservation (DEC) registered water well contractor (driller) and have groundwater as the water source. Some counties may have their own requirement for approvals of new and replacement wells. Check with the local health department (LHD) using the contact information available at: www.health.ny.gov/environmental/water/drinking/doh_pub_contacts_map.htm

Residential Code: Subsection P2602.1.1: “Individual water supplies. Individual water supplies (private wells) shall be installed by a well driller registered with the DEC and be in compliance with the provisions of Appendix 5-B of the New York State Department of Health regulations (10NYCRR Appendix 5-B).”

Well Construction: Appendix 5-B, “Standards for Water Wells”: This Appendix serves as the reference standard for construction of all new and replacement IWS. Approvals for deviations (e.g., “specific waivers”) from the standards can only be granted by the LHD having jurisdiction. Appendix 5-B can be found at: www.health.state.ny.us/nysdoh/water/part5/appendix5b.htm.

Water Well Contractor Registration: Environmental Conservation Law §15-1525: This law requires persons engaged in the business of water well contracting to be registered with the DEC (see below). Water well contracting includes any excavation for the purpose of obtaining groundwater, which includes drilled wells, dug wells, springs, “driven points” and shore wells. The water well contracting supervisor needs to be “certified” (i.e. passed an exam by the National Ground Water Association) and onsite during water well construction activities.

KEY ITEMS TO CHECK

It is recommended that the following key items be checked prior to issuing a building permit or certificate of occupancy. A checklist CEOs may use that includes the following items is attached.

Well Contractor Requirements: The following DEC Well Contractor Law requirements should be verified:

1. **DEC registration:** Check that the well contractor is presently **registered** with DEC. A list of registered well contractors can be found at www.dec.ny.gov/cfmx/extapps/WaterWell/index.cfm

2. **Well Completion Report:** This report is required to be submitted by the water well contractor to DEC and the water well owner. CEOs, however, have authority to ask for a copy (e.g., from the well owner) to review before approving the well. (These reports may not be available until the well has been paid for.)

Contact the DEC Water Well Program at 877-472-2619 or 518-402-8291 for questions on water well contractor registration or check online at www.dec.ny.gov/lands/33317.html. Well contractors that are not registered can be referred to DEC.
**Well Location and Separation Distances:** Appendix 5-B requires that wells be located an appropriate distance from known sources of contamination and not subject to flooding or surface water contamination. The table below lists required separation distances from wells to commonly encountered contaminant sources. For a full list of separation distances see Table 1 in Appendix 5-B. Proposed separation distances need to meet Appendix 5-B requirements and should be verified. Deviations from these separation distances need approval from the LHD.

<table>
<thead>
<tr>
<th>Contaminant Source</th>
<th>Distance (Feet)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land application or storage of manure</td>
<td>200</td>
</tr>
<tr>
<td>Seepage pit</td>
<td>150</td>
</tr>
<tr>
<td>Absorption (leach or tile) field or bed</td>
<td>100</td>
</tr>
<tr>
<td>Septic tank, enhanced treatment unit, watertight effluent line to distribution box</td>
<td>50</td>
</tr>
<tr>
<td>Sanitary (public) or combined sewer</td>
<td>50</td>
</tr>
<tr>
<td>Stream, lake, watercourse, drainage ditch, or wetland</td>
<td>25</td>
</tr>
</tbody>
</table>

*Note: Separation distances from contaminant sources need to be significantly increased if the contaminant source is located upgradient from a well or if aquifer water enters the well (i.e., at the bottom of the casing) at less than 50-feet below grade. Refer to Table 1 of Appendix 5-B or contact your LHD for questions on this Note.

**ADDITIONAL WATER WELL CONSTRUCTION CONSIDERATIONS**

**Well Construction:** The following details should be verified during site inspection and/or upon review of the NYSDEC Well Completion Report:

1. **Well depth and well casing length.** The well depth needs to be shown. The casing needs to extend at least 1-foot above grade and 19-feet below grade.
2. **Well cap** tightly secured to the casing; also watertight and vermin-proof. Split caps are not allowed.
3. **Grout,** if needed (not necessarily needed in sand or gravel; see Table 2, Appendix 5-B), is placed to fill the annular space around the casing to establish a watertight seal.
4. **Grading** of the area surrounding the well helps to eliminate ponding and direct surface water away from the top of the well casing; the well also needs to be located in an area not subject to flooding.
5. **Well yield** (if determined by the well contractor) is recorded before the well is placed into use.
6. **Pump** (if installed by the well contractor) or **well screen** (if needed) are recorded.

**Well Points, Dug Wells, Springs and Shore Wells:** A drilled well, located and constructed according to these criteria, should routinely be the water supply option selected. Well points, dug wells, springs and shore wells may need approval by the LHD. (Dug wells constructed with stone or brick shoring and single pipe driven point wells under suction are not in compliance with Appendix 5-B and should be avoided.) For more information on these types of sources refer to NYS DOH Fact Sheet #5, “Susceptible Water Sources.”

**Abandoned Wells:** It is recommended to check the site for previously constructed wells that have been abandoned due to inadequate production. These abandoned wells should be properly decommissioned as described in Fact Sheet #4, "Decommissioning Abandoned Wells.”

**IWS Fact Sheets:** [www.health.ny.gov/environmental/water/drinking/regulations/fact_sheets/](http://www.health.ny.gov/environmental/water/drinking/regulations/fact_sheets/)

For copies and questions concerning this Fact Sheet, Appendix 5-B, or other Fact Sheets:

<table>
<thead>
<tr>
<th>Contact Your Local Health Department Official:</th>
<th>Residential Sanitation Section</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="http://www.health.ny.gov/environmental/water/drinking/doh_pub_contacts_map.htm">www.health.ny.gov/environmental/water/drinking/doh_pub_contacts_map.htm</a></td>
<td>Bureau of Water Supply Protection</td>
</tr>
<tr>
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<td>New York State Department of Health</td>
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<tr>
<td></td>
<td>(518) 402-7650 or FAX (518) 402-7599</td>
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<tr>
<td></td>
<td>E-mail: <a href="mailto:bwsp@health.ny.gov">bwsp@health.ny.gov</a></td>
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January 2018
CHECKLIST
Attachment to NYSDOH Fact Sheet #6: “Guidance for Code Enforcement Officials”

This checklist is produced by the New York State Department of Health (NYSDOH) for CEOs who wish to use it when inspecting an individual water supply and issuing a building permit or a certificate of occupancy. This checklist is for personal use and does not need to be submitted to any agency. The regulations governing water well standards for individual water supply are the Residential Code (Subsection P2602.1) and NYS DOH Appendix 5-B. A complete version of Appendix 5-B can be found at www.health.ny.gov/regulations/nycrr/title_10/part_5/appendix_5b.htm

Fact Sheet #6 should also be reviewed when using this checklist.

Name of well/property owner:
Address:
Phone: Date of Inspection:
GPS or approx. well location:
Local or Town Permit Number:

MANDATORY FOR COMPLIANCE WITH THE RESIDENTIAL BUILDING CODE:
The following are key items CEOs should verify regarding the contractor and water well location/construction prior to issuing a building permit or certificate of occupancy:

☐ NYS Department of Environmental Conservation (DEC) Registered Well Contractor: A current registration sticker, like that shown, is to be located on the left front fender of the drill rig. The style and/or color of this sample sticker may change on a yearly basis. Contact the DEC Water Well Driller Program at 877-472-2619 for more information on the DEC registration program.

☐ Well Completion Report: The well completion report needs to be submitted to the DEC and the well owner. Details on the report need to include: well depth, casing length, depth and type of grout, screen type (if applicable), well yield (if performed by well contractor), pump type (if installed by well contractor), etc. See reverse side for an example of a well completion report and where each item can be found. CEOs may request a copy of the report to review from the well owner.

☐ Well Location and Separation Distances: The separation distances from the water well to potential contaminant sources need to be adhered to. The table below is a list of required separation distances from wells to the most commonly encountered contaminant sources. Refer to Appendix 5-B for a full list of separation distances. In addition, the well should not be prone to flooding or ponding of surface water.

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January 2018
**CHECKLIST (continued)**  
Attachment to NYSDOH Fact Sheet #6: “Guidance for Code Enforcement Officials”

**ITEMS RECOMMENDED FOR VERIFICATION**

- **Well Cap**  
  All wells need to have a properly vented, watertight, vermin proof well cap; Appendix 5-B.5(g)

- **Well depth**

- **Grout**  
  Appendix 5-B.3(b) and Table 2 (if grout is needed)

- **Casing**  
  - Appendix 5-B.3(b) and Table 2; shall extend at least one foot above finished grade

- **Yield**  
  Appendix 5-B.4 (if yield determined by well driller)

- **Well Pump**  
  Appendix 5-B.5 (if pump is installed by well driller)

- **Well Screen**  
  Appendix 5-B.3(b)(19) and Table 2 (if screen is needed)

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Electronic copies of this checklist and other Fact Sheets can be obtained at www.health.ny.gov/environmental/water/drinking/regulations/fact_sheets/ or by contacting your Local Health Department or the NYS DOH Bureau of Water Supply Protection at bpwsp@health.ny.gov

January 2018