

## Crosswalk for Draft Rule 3745-9-09, Well Development and Pumping Test

Draft Revisions to Rule	Current Rule Citation	Content Changes
<p><b>(A)</b> A public water system well shall be developed upon completion until turbidity or sand content in the well is minimal and until the maximum specific capacity is obtained to remove the native silts and clays, drilling mud or finer fraction of the filter pack.</p> <p><b>(1)</b> Mechanical development shall be performed so as not to cause damage to the components of the well. Mechanical development techniques include: mechanical surging; air surging or air lifting; overpumping and backwashing; high velocity jetting; bailing; and hydrofracturing.</p>	<p>(A)</p> <p>(A)(1)</p>	<p>None</p>
<p><b>(2)</b> With prior consultation with the district office, chemical development procedures may be used in conjunction with mechanical procedures. Chemical development techniques include use of an acid or dispersant that has standard ANSI/NSF 60 certification. The director may require submission of chemical development procedures with specifications for the method, equipment, chemicals, and testing for residual chemicals.</p> <p><b>(a)</b> Dispersants that contain phosphorous compounds shall not be used during the development of a well.</p> <p><b>(b)</b> Dispersant may be used to disaggregate clay particles to enhance removal. Dispersant shall be immediately flushed from the well and aquifer to prevent bacterial growth in the aquifer.</p> <p><b>(c)</b> Dispersant shall be premixed and used according to the manufacturer's recommendations.</p> <p><b>(d)</b> Acid shall be used according to the manufacturer's recommendations. Proper pH shall be maintained in the borehole to ensure the effective action of the acid.</p>	<p>(A)(2)</p> <p>None</p> <p>(A)(2)(a)</p> <p>(A)(2)(b)</p> <p>(A)(2)(c)</p>	<p>New paragraph about dispersants that contain phosphorous compounds added. (A)(2)(a)</p>
<p><b>(B)</b> A pumping test shall be conducted upon completion of development of the public water system well and conform to the following:</p>	<p>Part of (B)</p>	<p>New paragraphs added establishing what pumping tests are used to determine. Also, reorganized to clarify pumping test</p>

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<p><b>(1)</b> Be used to determine the specific capacity of the well at the anticipated permanent design pumping rate.</p> <p><b>(2)</b> Be used to demonstrate the well can supply water at the anticipated permanent design pumping rate without significantly decreasing the operational capacity of the wellfield or degrading the water quality of any well.</p> <p><b>(3)</b> For high use community water system wells, demonstrate the operation of other wells in the water supply system or of nearby high use wells will not significantly decrease the operational capacity or degrade the water quality of the proposed well at the anticipated permanent design pumping rate.</p>	<p>None</p> <p>None</p> <p>None</p>	<p>and reporting requirements.</p>								
<p><b>(4)</b> The pumping test classification is determined from the estimated average daily water demand of the well and type of water system, as illustrated in the following table. Estimated average daily water demand may be determined by the director from the design pumping rate of the well. With prior consultation, the director may accept an alternative constant rate pumping test that is conducted under the supervision of a hydrogeologist or person with demonstrated competency in performing pumping or aquifer tests.</p> <table border="1" data-bbox="105 873 1092 1154"> <thead> <tr> <th>Pumping Test Classification</th> <th>Estimated Average Daily Demand of the Well (gallons per day)</th> </tr> </thead> <tbody> <tr> <td>Low use</td> <td>0 to 10000</td> </tr> <tr> <td>Medium use</td> <td>10001 to 100000</td> </tr> <tr> <td>High use</td> <td>greater than 100000</td> </tr> </tbody> </table>	Pumping Test Classification	Estimated Average Daily Demand of the Well (gallons per day)	Low use	0 to 10000	Medium use	10001 to 100000	High use	greater than 100000	<p>(B)(1)</p> <p>Pumping Test Classification Table</p>	<p>None</p>
Pumping Test Classification	Estimated Average Daily Demand of the Well (gallons per day)									
Low use	0 to 10000									
Medium use	10001 to 100000									
High use	greater than 100000									
<p>An acceptable pumping test for low, medium, and high use classifications are as follows:</p> <p><b>(a)</b> For low or medium use wells, the pumping test shall be conducted at a constant rate for a period of at least normal operation either at the peak hourly demand, or at least 1.5 times the anticipated permanent design</p>	<p>Part of (B)(1)</p> <p>(B)(1)(a) and part of (B)(1)(b)</p>	<p>None</p>								

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<p>pumping rate if the well cannot sustain peak hourly flow. For a community water system well, the period of normal operation shall be no less than twenty-four hours.</p>		
<p><b>(b)</b> For all high use wells, a step-drawdown test shall be conducted, followed by a constant rate pumping test.</p> <p><b>(i)</b> The step-drawdown test shall be used to obtain sufficient hydrogeologic information to design an appropriate constant rate pumping test for the well. The step-drawdown test shall, at a minimum conform to the following:</p> <p><b>(a)</b> Consist of three or more steps of progressively increasing pumping rates.</p> <p><b>(b)</b> Each step be of approximately equal duration.</p> <p><b>(c)</b> Each step be run at a constant pumping rate for no less than thirty minutes.</p> <p><b>(d)</b> Each step be run long enough until the time-drawdown data for that step plot as a straight line on a semilogarithmic graph.</p> <p><b>(ii)</b> The constant rate pumping test shall be conducted for at least twenty-four hours at a pumping rate of at least 1.5 times the anticipated permanent design pumping rate. The constant rate pumping test shall not commence until the water level has recovered to at least ninety per cent of the drawdown caused by the step-drawdown test.</p>	<p>None</p> <p>None</p> <p>Part of (B)(1)(c)</p> <p>None</p> <p>None</p> <p>None</p> <p>Part (B)(1)(c)</p>	<p>Language was clarified to differentiate between a step-drawdown and constant rate pumping test, establishing step-drawdown should be performed first. Established minimum elements step-drawdown should include. Requirement added to not start a constant rate pumping test until at least 90% of the water level recovered step-drawdown test.</p>
<p><b>(5)</b> The pumping test shall include the following:</p> <p><b>(a)</b> The flow rate shall be measured using an orifice weir with manometer, or equivalent method acceptable to the director.</p> <p><b>(b)</b> During a step-drawdown or constant rate pumping test, water level measurements shall be taken from the well starting with the static water</p>	<p>Part of (B)(2)</p> <p>Part of (B)</p> <p>Part of (B)(2)(c)</p>	<p>Requirements from (B)(2) from the current rule were separated into paragraphs (B)(5) and (B)(6) to differentiate between how to conduct a pump test and report pump test results.</p> <p>Added “greater than 1440” to the time</p>

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<p>level and continuing during drawdown to the nearest 0.1 foot, as measured from an identified datum.</p> <p><b>(i)</b> Water level measurements shall be at the following time intervals:</p> <table border="1" data-bbox="105 337 1062 883"> <thead> <tr> <th>Time After Test Started (minutes)</th> <th>Time Interval Between Measurements (minutes)</th> </tr> </thead> <tbody> <tr> <td>0 - 15</td> <td>1</td> </tr> <tr> <td>15 - 60</td> <td>5</td> </tr> <tr> <td>60 - 120</td> <td>10</td> </tr> <tr> <td>120 - 180</td> <td>20</td> </tr> <tr> <td>180 - 300</td> <td>30</td> </tr> <tr> <td>300 - 1440</td> <td>60</td> </tr> <tr> <td>Greater than 1440</td> <td>60</td> </tr> </tbody> </table>	Time After Test Started (minutes)	Time Interval Between Measurements (minutes)	0 - 15	1	15 - 60	5	60 - 120	10	120 - 180	20	180 - 300	30	300 - 1440	60	Greater than 1440	60	<p>Part of (B)(2)(c)(i)</p> <p>Time Intervals Table</p>	<p>intervals table.</p>
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<p><b>(ii)</b> Recovery water level measurements shall be taken immediately after termination of the constant rate pumping test at time intervals of five minutes for the first hour and every thirty minutes thereafter until the water level has recovered to at least ninety percent of the drawdown caused by the pumping test.</p> <p><b>(iii)</b> For high use wells, all pumping tests shall include water level measurements from observation or surrounding wells. An observation well shall be selected or sited such that the water level measurements obtained before, during and after the pumping test will, upon analysis, provide information about the aquifer's response to pumping. The selection or siting process shall consider the distance between the observation well and the pumping well, the type of aquifer from which water is being withdrawn, the hydraulic gradient and other aquifer</p>	<p>Part of (B)(2)(f)</p> <p>None</p>	<p>Added language to clarify where to site observation wells for a multi-well test.</p>																

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characteristics.		
<p><b>(6)</b> The well owner shall submit a report of the pumping tests with their results, interpretations and conclusions.</p> <p><b>(a)</b> The pumping test report shall include the following:</p> <p><b>(i)</b> The date and times of starting through ending the pumping test.</p> <p><b>(ii)</b> A data table for each well used to observe the drawdown and recovery water level measurements, as required by paragraph (B)(5)(b) of this rule, showing the time after the pump test started and the corresponding water level measurements to the nearest 0.1 foot.</p> <p><b>(iii)</b> The height above ground (in feet) of the water level measurement reference point.</p> <p><b>(iv)</b> The pumping rate and depth at which the pump used for the test was set.</p> <p><b>(v)</b> The anticipated permanent pump setting depth (in feet below ground).</p> <p><b>(vi)</b> The specific capacity of the well at the anticipated permanent design pumping rate.</p>	<p>None</p> <p>(B)(2)</p> <p>(B)(2)(a)</p> <p>Part of (B)(2)</p> <p>None</p> <p>(B)(2)(b)</p> <p>None</p> <p>Part of (B)(2)</p>	<p>Requirements from (B)(2) from the current rule were separated into paragraphs (B)(5) and (B)(6) to differentiate between how to conduct a pump test and report pump test results.</p> <p>Added language needed to accurately assess the pump test results.</p>
<p><b>(b)</b> In addition to paragraph (B)(6)(a) of this rule, the report for a high use well pumping test report shall include the following:</p> <p><b>(i)</b> A map showing the location of the pumping wells and the location of other wells used to observe drawdown. The map shall, at a minimum, include the names of the wells as used in the report and the distance between the pumping well and other wells used to observe drawdown.</p> <p><b>(ii)</b> Graphs plotted on semi-logarithmic graph paper showing the drawdown and recovery measurements on the arithmetic scale and time</p>	<p>None</p> <p>None</p> <p>(B)(2)(3)</p>	<p>New language added that only applies to high use wells. Requesting additional information to help interpret high use well test results. Requesting map because it is needed to relate graphs to location and is not always provided.</p>

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<p>on the logarithmic scale.</p> <p>Graphs must be submitted for the pumping well and any other wells used to observe drawdown and recovery during the step drawdown test.</p> <p><b>(c)</b> In addition to paragraph (B)(6)(b) of this rule, when a high use community water system well is part of a multiple-well system the report shall include documentation that the well meets the demonstration requirements in paragraphs (B)(2) and (B)(3) of this rule.</p>	<p>None</p> <p>None</p>	
<p><b>(C)</b> Samples shall be collected and analyzed from a public water system well for contaminants at the conclusion of the pumping test performed in accordance with paragraph (B) of this rule.</p> <p><b>(1)</b> A community water system well shall be sampled and analyzed for the contaminants that are listed in appendix A of this rule, "Required Analyses for Wells Utilized by Community Public Water Systems."</p> <p><b>(2)</b> A nontransient noncommunity water system well shall be sampled and analyzed for the contaminants that are listed in appendix B of this rule, "Required Analyses for Wells Utilized by Nontransient Noncommunity Public Water Systems."</p> <p><b>(3)</b> A transient noncommunity water system well shall be sampled and analyzed for the contaminants that are listed in appendix C of this rule, "Required Analyses for Wells Utilized by Transient Noncommunity Public Water Systems."</p> <p><b>(4)</b> The director may reduce or add to the contaminants that are listed in the appendice to this rule because of well siting, well construction, treatment, promulgated drinking water standards, or other criteria to assess if the ground water is acceptable for human consumption.</p> <p><b>(5)</b> Samples that are collected from a public water system well in accordance to this rule shall be analyzed in a laboratory certified to analyze drinking water for contaminants in accordance with Chapter 3745-89 of the Administrative Code. The analytical methods shall be the same as required by the entry point to the</p>	<p>(C)</p> <p>Part of (C)(1)</p> <p>Part of (C)(1)</p> <p>Part of (C)(1)</p> <p>Part of (C)(1)</p> <p>(C)(2)</p>	<p>Existing language revised to differentiate between public water system types.</p>

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distribution system monitoring in accordance with rule 3745-81-27 of the Administrative Code and shall include all the volatile organic and synthetic organic analytes that are quantified by the laboratory for the organic analytical method.																				
[Comment: "Standard ANSI/NSF 60, Drinking Water Treatment Chemicals - Health Effects, December 11, 2009, Document Number NSF/ANSI 60-2009a." This rule incorporates this standard or specification by reference. A copy may be obtained from "NSF International, 789 N. Dixboro Road, P.O. Box 130140, Ann Arbor, MI 48113-0140," (734)769-8010, www.nsf.org. This standard is available for review at "Ohio EPA, Lazarus Government Center, 50 West Town Street, Suite 700, Columbus, OH, 43215."]	Standard ANSI/NSF 60	None																		
<p><b>Appendix A 3745-9-09</b></p> <p>Required Analyses for Wells Utilized by Community Public Water Systems</p>	Replaces Existing Appendix	Appendix split into three to differentiate between requirements for wells used by nontransient noncommunity and transient noncommunity public water systems.																		
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<p style="text-align: center;">Volatile Organic Chemicals (VOC)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Benzene</td> <td style="width: 33%;">cis-1,2-Dichloroethene</td> <td style="width: 33%;">Toluene</td> </tr> <tr> <td>Carbon Tetrachloride</td> <td>trans-1,2-Dichloroethene</td> <td>1,2,4-Trichlorobenzene</td> </tr> <tr> <td>Monochlorobenzene</td> <td>Dichloromethane</td> <td>1,1,1-Trichloroethane</td> </tr> <tr> <td>1,2-Dichlorobenzene</td> <td>1,2-Dichloropropane</td> <td>1,1,2-Trichloroethane</td> </tr> <tr> <td>1,4-Dichlorobenzene</td> <td>Ethylbenzene</td> <td>Trichloroethene</td> </tr> <tr> <td>1,2-Dichloroethane</td> <td>Styrene</td> <td>Vinyl Chloride</td> </tr> <tr> <td>1,1-Dichloroethene</td> <td>Tetrachloroethene</td> <td>Xylenes, total</td> </tr> </table>	Benzene	cis-1,2-Dichloroethene	Toluene	Carbon Tetrachloride	trans-1,2-Dichloroethene	1,2,4-Trichlorobenzene	Monochlorobenzene	Dichloromethane	1,1,1-Trichloroethane	1,2-Dichlorobenzene	1,2-Dichloropropane	1,1,2-Trichloroethane	1,4-Dichlorobenzene	Ethylbenzene	Trichloroethene	1,2-Dichloroethane	Styrene	Vinyl Chloride	1,1-Dichloroethene	Tetrachloroethene	Xylenes, total	VOC Table	None
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Barium, total	Lead, total	pH																		
Calcium, total	Magnesium, total	Total Dissolved Solids																		
Chloride	Manganese, total	Sodium, total																		
Copper, total	Nitrate-(as N)	Sulfate																		
<p style="text-align: center;">Radiological</p> <table border="1" data-bbox="210 935 976 1088"> <tr> <td>Gross Alpha</td> </tr> <tr> <td>Gross Beta</td> </tr> </table>	Gross Alpha	Gross Beta	Part of Radiological Table	New table excludes Radium-228, Radium-226 and Uranium.																
Gross Alpha																				
Gross Beta																				