



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

October 19, 2015

R&R BOH15-03

Proposed No. BOH15-03.1

Sponsors

1 A RULE AND REGULATION relating to approved
2 water sources for on-site sewage systems; amending
3 R&R 3, Part 13, Section 3, as amended, and BOH
4 13.04.070; enacted pursuant to RCW 70.05.060,
5 including the latest amendments or revisions thereto.

6 BE IT ADOPTED BY THE KING COUNTY BOARD OF HEALTH:

7 SECTION 1. R&R 3, Part 13, Section 3, as amended, and BOH 13.04.070 are
8 each hereby amended to read as follows:

9 **Domestic water supply source.** No on-site sewage system may be constructed
10 or expanded if the plumbing fixtures draining to the system are not supplied with water
11 from an approved source. An approved water source consists of one of the following:

12 A. Public water source: A public water source currently in compliance with
13 chapter 246-290 or 246-291 WAC and BOH Title 12.

14 B. Private individual well source: A private well on a lot five acres or greater in
15 size or a lot created prior to May 18, 1972, which complies with all of the following
16 conditions:

17 1. Well location approval: Any proposed new or replacement individual private
18 well location shall be submitted to the health officer and receive approval prior to
19 construction of the well.

20 a. All private water system development in the urban growth area or in the
21 rural area as defined by the King County Comprehensive Plan is subject to the provisions
22 of King County Code Sections 13.24.140 and 13.24.138, respectively.

23 b. Proposed new initial well locations shall be accurately specified upon an
24 OSS site design application and shall be submitted for review by the health officer in
25 conjunction with evaluation of the proposed OSS design. If the protective well radius is
26 within ten feet of any lot line, easement line or any source of contamination, the health
27 officer may require the well site to be surveyed.

28 c. Application for replacement well locations shall be made on forms obtained
29 from the health officer and shall be accompanied by a review fee as specified in the fee
30 schedule.

31 d. The new or replacement well location shall be clearly identified at the site.

32 e. Information shall be provided as part of the well location application to
33 include, at minimum, a completely dimensioned plot plan, drawn to a scale not smaller
34 than one inch equals one hundred feet accurately showing the location of the proposed
35 water well relative to property boundary lines, existing and proposed OSS components
36 including OSS reserve area, existing and proposed structures, roads and driveways,
37 surface water, direction of surface drainage, a designated well protection sanitary control
38 area and any other features relevant to the siting of a water well location.

39 f. A water well site approval is valid for two years from the date of approval or
40 until the expiration of a building permit issued by the building official for construction of
41 the primary structure to be served by the new well, whichever period is longer.

42 2. Water well protection covenant: The property owner shall establish a water
43 well protection sanitary control area by providing a recorded protective covenant
44 prohibiting, within a horizontal distance of not less than one hundred feet of the well,
45 potential sources of contamination as described in BOH 12.24.010 and WAC 173-160-
46 171.

47 3. Demonstrate adequate water quantity by:

48 a. Drilling, in known or suspected areas of low production, the well and
49 conducting a four hour pump test that demonstrates that the proposed well is capable of
50 providing water to a residential dwelling in the amount of not less than four hundred
51 gallons per day. This pump test may be required to be performed during the months of
52 August, September or October at the health officer's discretion; or

53 b. Providing, in all other areas, adequate information to the satisfaction of the
54 health officer to demonstrate the aquifer's capability to provide four hundred gallons per
55 day. This information may include well logs or pumping reports from neighboring wells
56 utilizing the same aquifer. The neighboring well or wells shall be shown on a map of the
57 surrounding area identifying both the subject property and the location of the well or
58 wells identified as neighboring. The map shall be included with the OSS site design
59 application submittal.

60 4. Demonstrate adequate water quality by submitting results of all tests taken for
61 the following and showing:

62 a. ~~((At least one bacteriological analysis from the well water which does not~~
63 ~~exceed the maximum contaminant level prescribed in WAC 246-291-320))~~

64 Bacteriological analysis from at least two raw source water samples from the well

65 indicating no presence of coliform bacteria; and

66 b. At least one chemical test for nitrate and arsenic from the well water
67 described in table ((+)) 2, WAC ((246-291-330)) 246-291-170, which does not exceed the
68 primary maximum contaminant level under WAC ((246-291-330)) 246-291-170.

69 5. Provide a copy of well driller's report under WAC 173-160-141.

70 6. Construction of the well must meet Washington state Department of
71 Ecology's construction standards under chapter 173-160 WAC.

72 C. A private spring on a lot five acres or greater or a lot created prior to May 18,
73 1972, that complies with all of the following conditions prior to application for OSS site
74 design approval:

75 1. Application for an individual private spring water source shall be made on
76 forms provided by the health officer and shall be accompanied by a fee as specified in the
77 fee schedule.

78 2. The application shall include: a recorded protective covenant of no less than
79 two hundred feet up slope and one hundred feet down slope from the spring prohibiting
80 any potential sources of contamination as described in BOH 13.04.070 B.2., a spring
81 location plot plan, a detailed spring construction plan, and information demonstrating
82 acceptable water quality and quantity as specified in BOH 12.20.040 and chapter 246-291
83 WAC.

84 3. Within thirty days of receiving a complete application the health officer shall
85 approve, deny or notify the applicant that the application is pending. Reasons for denial
86 or pendency of the application shall be stated in writing.

87 D. A rainwater catchment system that serves as the only source of drinking water
88 for a single family residence and that complies with each of the following conditions:

89 1. The health officer finds that requiring connection of the plumbing system to
90 an approved public water source or to an approved private well would cause undue
91 hardship.

92 2. Application for a rainwater catchment system source approval shall be
93 submitted for review on forms provided by the health officer. The applicant shall pay to
94 the health officer the rainwater catchment system review fee as specified in the fee
95 schedule, payable after completion of the application review.

96 3. Application for a rainwater catchment system source approval shall be
97 prepared by any one or more of the following:

98 a. a professional engineer authorized under a current, valid license to practice
99 in Washington state;

100 b. an environmental health professional holding a current, valid registration
101 from either the Washington State Environmental Health Association or the National
102 Environmental Health Association;

103 c. a King County licensed water system designer holding a current, valid
104 license to design water systems in King County; and

105 d. a rainwater system designer holding a current, valid accreditation from the
106 American Rainwater Catchment System Association.

107 4. Rainwater catchment system ((source)) design shall conform to ((Part III of
108 Chapter 16 of the Uniform Plumbing Code, 2009 edition)) chapter 51-56 WAC, Uniform
109 Plumbing Code, as amended, and shall include, at a minimum, the following information:

- 110 a. estimated daily and weekly and annual demand;
- 111 b. available catchment area and estimated annual rainwater capture;
- 112 c. roofing materials used;
- 113 d. storage capacity of and materials used in the construction of the rainwater
- 114 catchment system;
- 115 e. treatment specifications including filtrations and disinfection system
- 116 specifications; and
- 117 f. operation and maintenance requirements.
- 118 5. Composite or shake shingles or other materials determined by the health
- 119 officer to present a risk of contamination may not be approved or used as roofing
- 120 materials for a rainwater catchment system source.
- 121 6. Before using a rainwater catchment system source, the property owner shall
- 122 file in the county recorder's office a notice on title advising that the property is served by
- 123 a rainwater catchment system and including the following information:
- 124 a. the estimated daily, weekly and annual water supply furnished by the
- 125 rainwater catchment system;
- 126 b. that the water supply from the rainwater catchment system may be limited
- 127 due to variations in rainfall or usage; and
- 128 c. that regular maintenance of the treatment system and components is required
- 129 in order to minimize the risk of consuming contaminated water.
- 130 E. Lot area designated in whole or in part as a critical area may be included in the
- 131 computation of the minimum five-acre lot size required under subsections B. and C. of
- 132 this section.

133 **SECTION 2. Severability.** If any provision of this rule or its application to any
134 person or circumstance is held invalid, the remainder of the rule or the application of the
135 provision to other persons or circumstances is not affected.
136

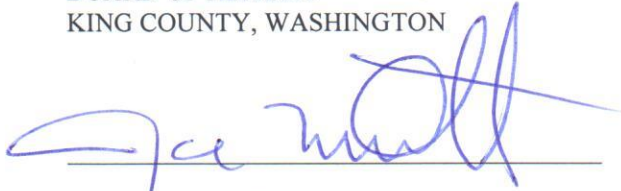
R&R BOH15-03 was introduced on and passed by the Board of Health on 10/15/2015,
by the following vote:

Yes: 11 - Ms. Lambert, Dr. Danielson, Mr. McDermott, Ms. Wales,
Mr. Dembowski, Ms. Honda, Mr. Okamoto and Dr. Daniell

No: 0

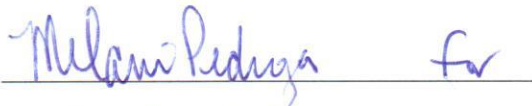
Excused: 3 - Mr. Licata, Mr. Baker and Ms. Sawant

BOARD OF HEALTH
KING COUNTY, WASHINGTON



Joe McDermott, Chair

ATTEST:



Anne Noris, Clerk of the Board

Attachments: None