

Drinking Water

Jefferson County Environmental Health

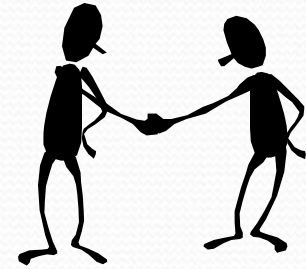


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Environmental Health Department

Drinking water program- Overview

- Well inspection program, Agreement with Ecology.
- Public Water, Agreement with Department of Health
- Potable water review for building permits, 1990 Growth Management act, RCW 19.27.097

Well Inspection Program



Began in 1996, delegated authority through Ecology.

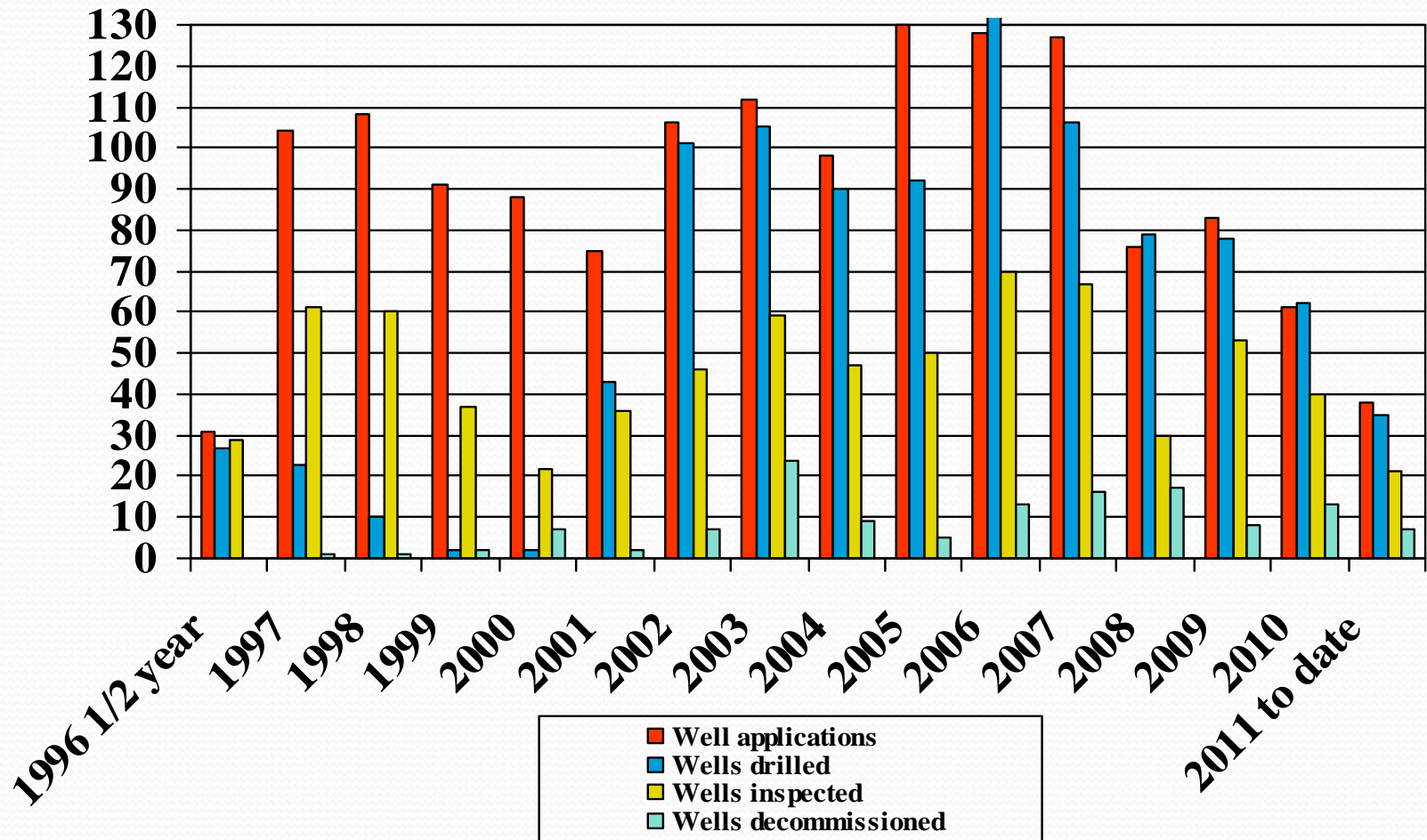
- Requirements for sealing annular space for sanitary protection
- Requirements for sealing materials
- Sealing of Dug Wells, special standards for Driven or Jetted Wells and
- Decommissioning of wells

JEFFERSON COUNTY DOES NOT PERMIT WELL SITING

Processing the well inspection application:

- Prioritize potable water from approved public water supply if available in a timely and reasonable manner
- Provides brief review for conflict with known contamination sources.
- Help to forewarns land owners of potential water quality/quantity issues known by the county.

Statistics of the Well inspection program



Proper well construction





YES



NO

Some wells need to be decommissioned



Public Water

- Inspection for sanitary control for proposed public water supply
- Sanitary surveys of existing public water supply as contracted by Washington State Department of Health (DOH)
- Provide technical assistance to existing public water supply owners as assigned by DOH

- Facilitate education
 - Protect Sources
 - Prevent Risk of Contamination
- Ensure sealed well
- Adequate Venting



Hand dug well

Drilled wells

Storage Reservoirs open to contamination



Requirements for Potable Water Review

The building official determines if building permit requires proof of potable water.

Then - Jefferson County Public Health reviews for quality and quantity

Water quality

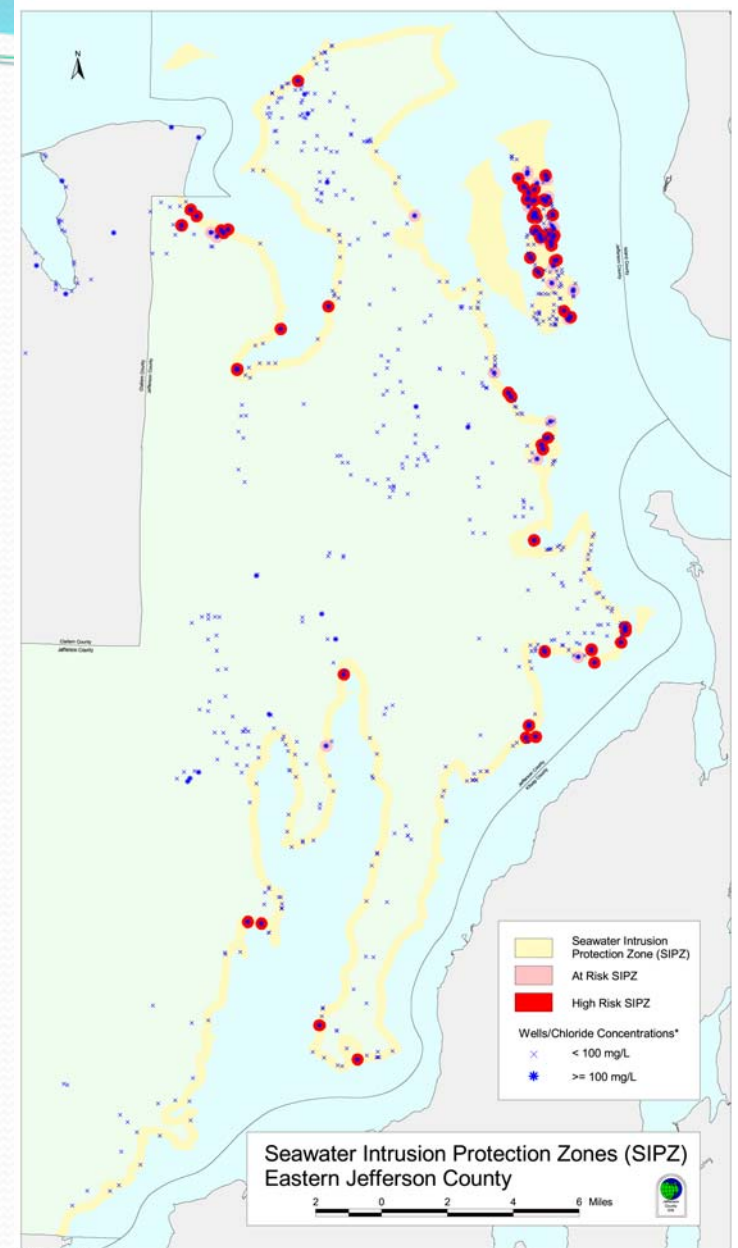
- Nitrate MCL 10 ppm
- Chloride MCL 250 ppm
- Bacteria must have “satisfactory” lab result

Water quantity

- Minimum of 400 gallons per day
- After January 1, 2010 Instream Flow Rule, if applicable

Other Factors related to potable water for building permits:

Seawater Intrusion Ordinance (DCD)
09-0923-02



Rainwater catchment systems



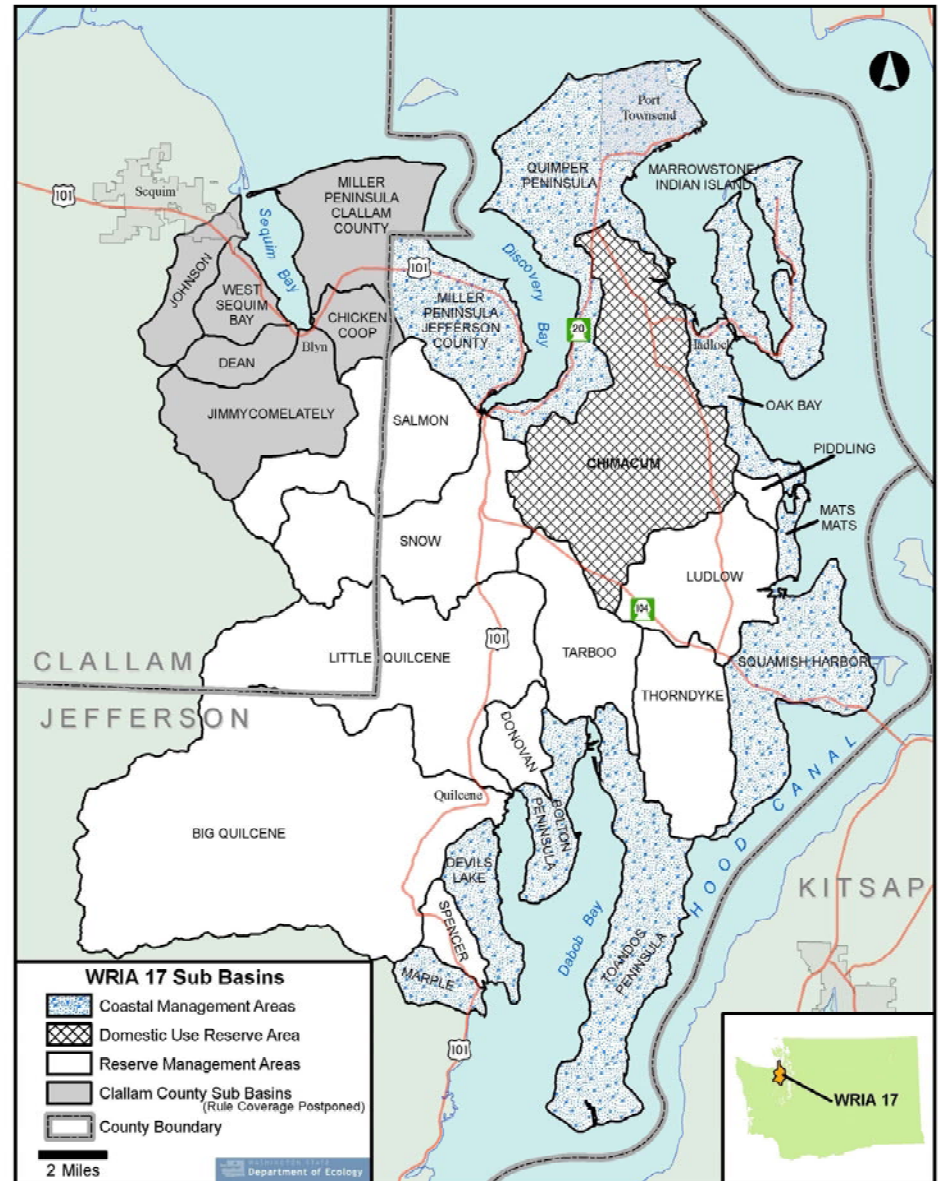
Additional quality and quantity issues in the county:

- Nitrate above MCL: only known area: North end of East Beach on Marrowstone Island.
- Arsenic above MCL: only known areas: Port Ludlow and Paradise Bay/Cape George area (water quality info from DOH)
- Connate salt water:
 - Center Rd south from 104 overpass to Quilcene
 - Quilcene -101 in Lords Lake/Rice Lake area to Crocker Lake+/-
- Volume issues:
 - Eaglemount Rd.
 - Anderson Lake Rd.
 - Same as Connate water area above.

Instream flow rule:

Compliance within WRIA 17

- *Only affects those who put a well to “beneficial use” after December 31, 2009.*
- *If you already have a water right, are using a well, or are served by a public water supplier, the rule does not impact your use.*
- *Placed conditions on all applicable building permits.*



Instream Flow rule report-1/1/2010-8/16/11

1/1/2010-8/16/11			
Sub-Basin	Building permits	Group B	Subdivisions
<u>Reserve management areas</u>			
Big Quil River	1 (BLD11-150)		
Donovan Creek			
Little Quilcene River, Leland and Howe Crk		1 (BLD09-422)	
Ludlow Creek			
Piddling Creek			
Salmon Creek			
Snow Creek	1 (BLD10-252)		
Spencer Creek			
Tarboo Creek	1 (BLD10-272/273)		
Thorndyke Creek			
<u>Chimacum Creek Sub-Basin</u>			
	4 (BLD10-160, 35, 11-74, 11-132)		
<u>Coastal Management Area</u>			
Miller Peninsula			
Quimper Peninsula	6 (BLD10-7, 337, 147, 250/51, BLD11-155,136)		2 SUB10-20 (two lots, 1 exempt), 11-1 (two lots, 1 exempt)
Oak Bay	1 (BLD10-181)		
Mats Mats Bay			
Squamish Harbor	1 (BLD11-121)		
Toandos Peninsula	3 (BLD10-298, 18 and 24)		
Bolton Peninsula	3 (BLD10-309, 157, 87)		
Devils Lake	1 (BLD10-101)		
Marple			
Marrowstone			
<u>EXEMPTED FROM RULE based on evidence adequate to Ecology</u>			
Quimper (BLD10-65)			
Donovan (BLD10-264)			
Chimacum (BLD10-269)			

What we would all like to avoid:

