

This guide to make a written **COLIFORM SAMPLING PLAN** is for you IF: You have only a few water service connections & you are NOT required to provide 4-log viral disinfection, but as 'insurance' you still do chlorine residual maintenance or ozone or UV light & you only use ground water.

Create a matrix like the 1 below as the basis for a coliform sampling plan. It outlines where & when (i) ROUTINE, (ii) REPEAT & SOURCE, and (iii) TEMPORARY ROUTINE samples are to be taken. Other paperwork to make part of a coliform sampling plan includes: a map of water lines, the PUBLIC NOTICE templates accessed via the link at the bottom of this document, plus any written instruction from your water testing lab about collecting samples, completing sample forms, transporting samples, scheduled courier services and times samples are accepted.

Sample Sites: Only service connections that are available for normal use need to be sampled. At least one sample every calendar quarter is to be tested for total coliform. The general practice is to assure each region of the water system is represented by at least one ROUTINE sam-

ple over the course of a year. Use the map of water lines to justify the choice of sampling sites. A SOURCE sample is required any time REPEATS are needed. If REPEATS are not needed during the year 1 SOURCE sample per source is still required in each calendar year. When REPEAT samples are required: #1 is from the originally sampled tap, #2 & #3 are up & down stream from #1 and #4 comes from the other side of the water system from #1. **EXCEPTION:** if there are not enough service connections to allow this, multiple samples may be taken from the same site. TEMPORARY ROUTINE samples should be spread from throughout the system.

The matrix below illustrates a plan for a water system with 2 branches and only 1 service connection per branch from which water is normally used. Expand your matrix if more ROUTINE sample sites are needed.

(i) Sample Points for ROUTINE quarterly samples	(ii) 4 REPEAT samples & 1 SOURCE sample (from each source) must be taken ASAP in the locations below any time coliforms are found present in a ROUTINE sample:	(iii) 5 TEMPORARY ROUTINE Samples must be taken in the month immediately after the month coliform was found present in a ROUTINE Sample. Make a list of sample sites scattered through the distribution system.
ROUTINE Site #1-Shower Hall Fountain  SAMPLED during the 1 <sup>st</sup> & 3 <sup>rd</sup> QUARTERS of the YEAR.	Repeat Site A - <i>Shower Hall Fountain</i> Repeat Site B - <i>Shower Hall Fountain</i> Repeat Site C - <i>Mill Office Kitchen Sink</i> Repeat Site D - <i>Mill Office Kitchen Sink</i> Source – <i>Well head faucet (prior to any treatment) If E. coli is found call the Health Dept for instructions.</i>	Sites: 1 _____, 2 _____, 3 _____, 4 _____ & 5 _____ IF coliform is found present in a TEMPORARY ROUTINE, return to the sampling requirements in column (ii) and <u>again</u> collect 4 REPEATS & SOURCE sample(s).
ROUTINE Site #2-Mill Office Kitchen Sink  SAMPLED during the 2 <sup>nd</sup> & 4 <sup>th</sup> QUARTERS of the YEAR.	Repeat Site A - <i>Mill Office Kitchen Sink</i> Repeat Site B - <i>Mill Office Kitchen Sink</i> Repeat Site C - <i>Shower Hall Fountain</i> Repeat Site D - <i>Shower Hall Fountain</i> Source – <i>Well head faucet (prior to any treatment) If E. coli is found call the Health Dept for instructions.</i>	If ANY of the 4 REPEAT samples or 5 TEMPORARY ROUTINE samples show the presence for any kind of coliform bacteria, PUBLIC NOTICE is required. See the PUBLIC NOTICE link at the bottom of this document.  Ideally contamination should be eliminated before TEMPORARY ROUTINE samples are taken. Contact the Health Dept for ideas to help @ (541) 751-2431.

A link to more comprehensive instructions for preparing a COLIFORM SAMPLING PLAN are provided by the state at:  
<http://public.health.oregon.gov/HealthyEnvironments/DrinkingWater/Operations/Pages/management.aspx>

Public notice templates related to this document include: "MCL – Resolved," "MCL – Unresolved" and "Fecal Coliform or E. coli MCL Boil Water." A link for each may be found at:  
<http://public.health.oregon.gov/HealthyEnvironments/DrinkingWater/Operations/Pages/publicnotices.aspx>