Figure 1. Sample Tap before Chemical Treatment and Backwash Water Recycle (if applicable)

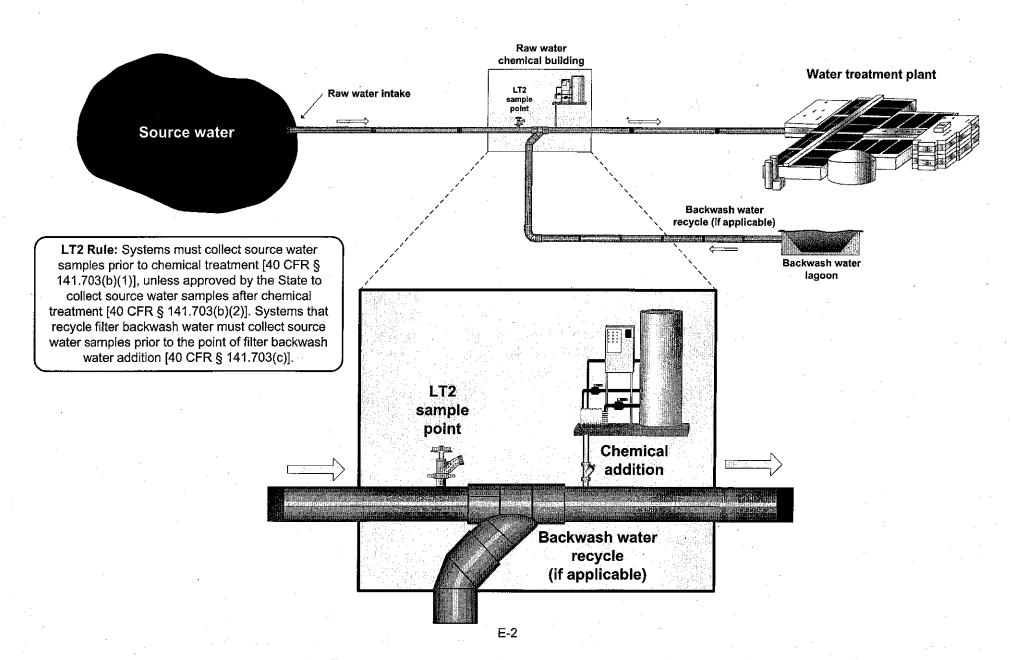


Figure 2. Multiple Sources: Sample Tap after Two Combined Sources

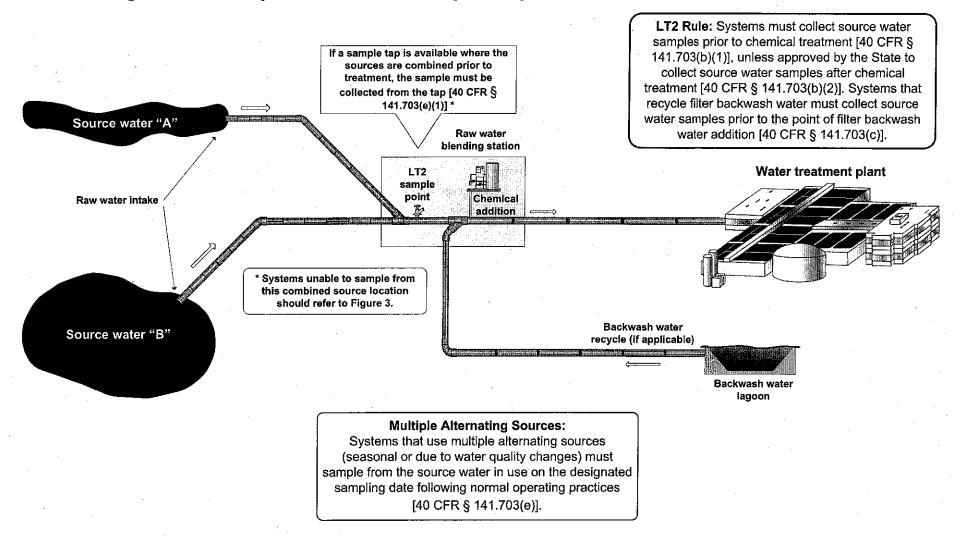
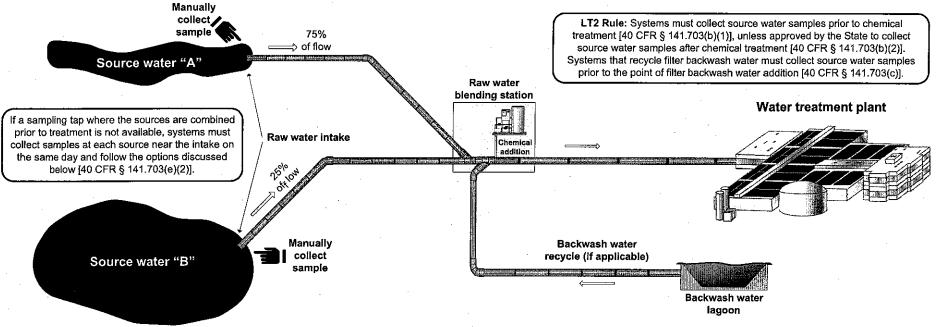
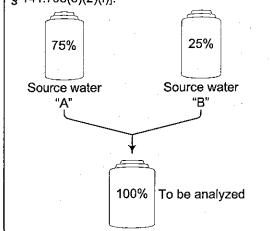


Figure 3. Multiple Sources: Two (or More) Sources to be Composited



OPTION 1 (Recommended Option):

Collect samples manually at each source near the intake on the same day and composite them into one sample to be analyzed. The volume of sample from each source must reflect its proportion of the total plant flow at the time the samples were collected [40 CFR § 141.703(e)(2)(i)].



OPTION 2:

Collect samples manually at each source near the intake on the same day and analyze each independently, then calculate a weighted average of the analysis results. This is done by multiplying the result for each source by the percentage of its contribution to the total plant flow at the time the samples were collected, and then summing these values [40 CFR § 141.703(e)(2)(ii)].

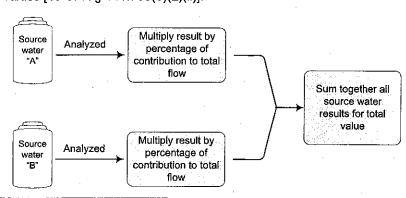


Figure 4. Multiple Plants with the Same Influent

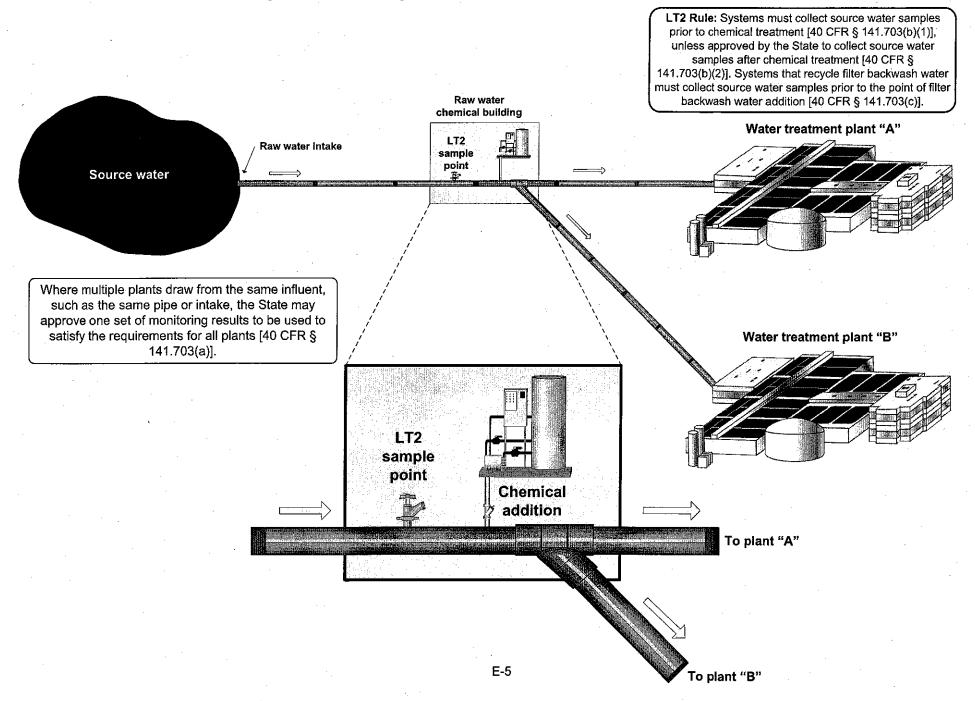


Figure 5. Bank Filtration

The correct sampling location for systems using bank filtration differs depending on whether the bank filtered water is treated by subsequent filtration:

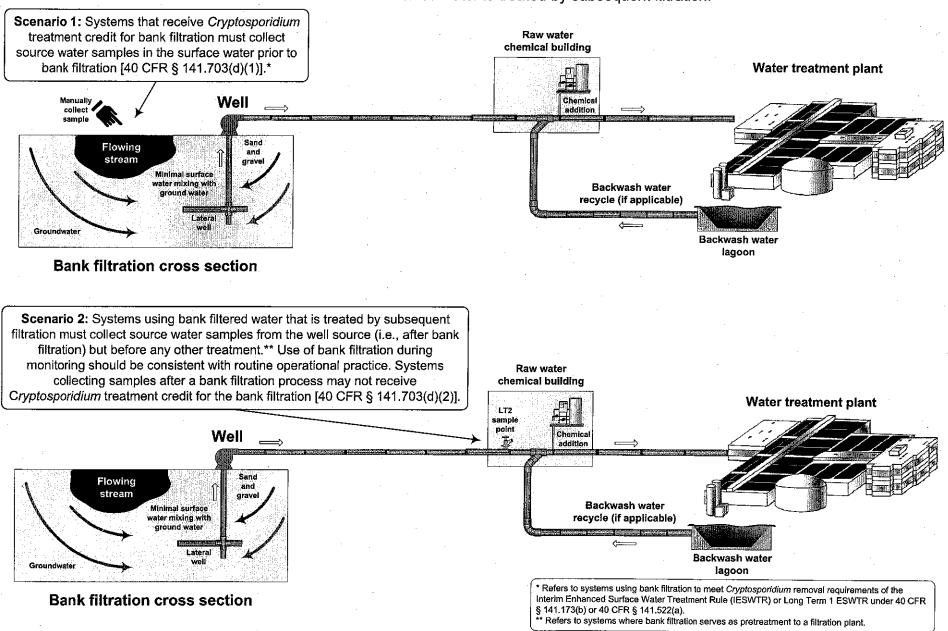


Figure 6. Ground Water Under the Direct Influence of Surface Water (GWUDI)

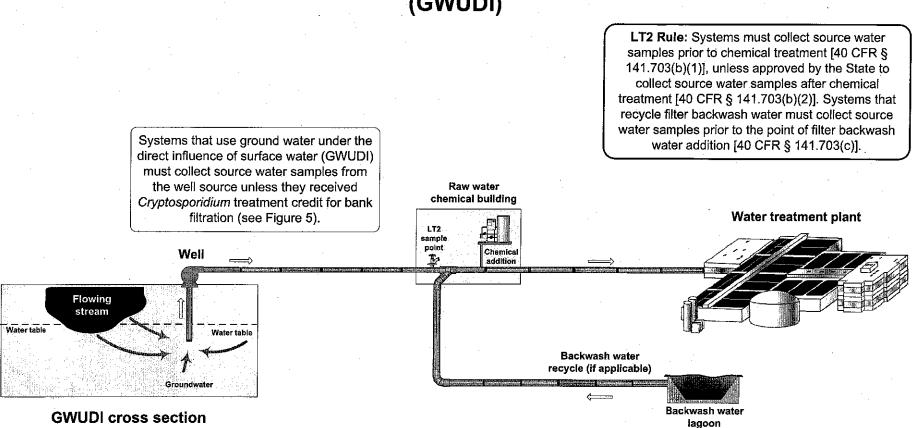
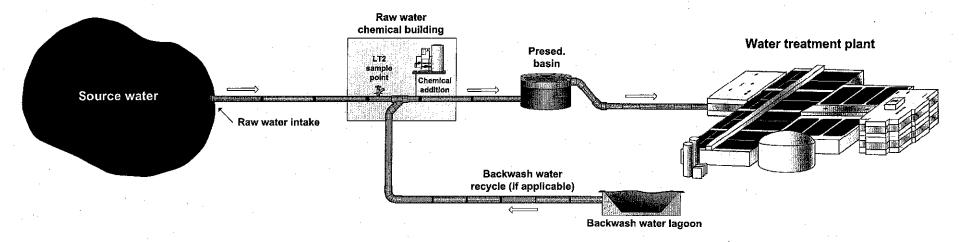


Figure 7. Presedimentation Basin

Scenario 1:

Systems using a presedimentation basin with chemical addition should collect source water samples prior to chemical treatment, unless approved by the State to collect source water samples after chemical treatment. Systems that recycle filter backwash water must collect source water samples prior to the point of filter backwash water addition [40 CFR § 141.703(c)].



Scenario 2:

Systems without chemical addition prior to or in a presedimentation basin, or that have been approved by the State to collect source water samples after chemical treatment, may sample after the presedimentation basin but will not receive any treatment credit for presedimentation.

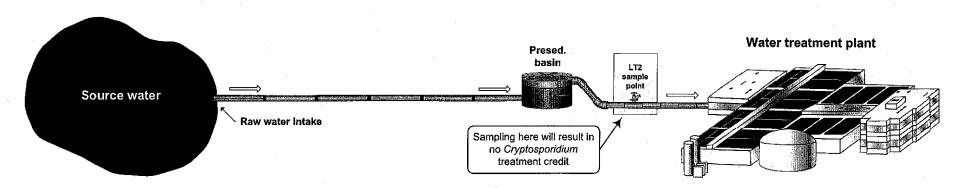


Figure 8. Raw Water Off-Stream Storage

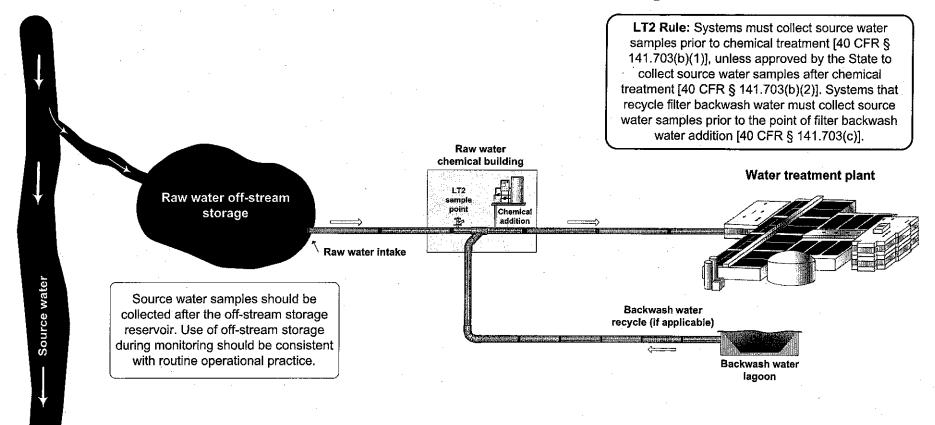


Figure 9. Mixed Source Water: Ground Water and Surface Water Sources

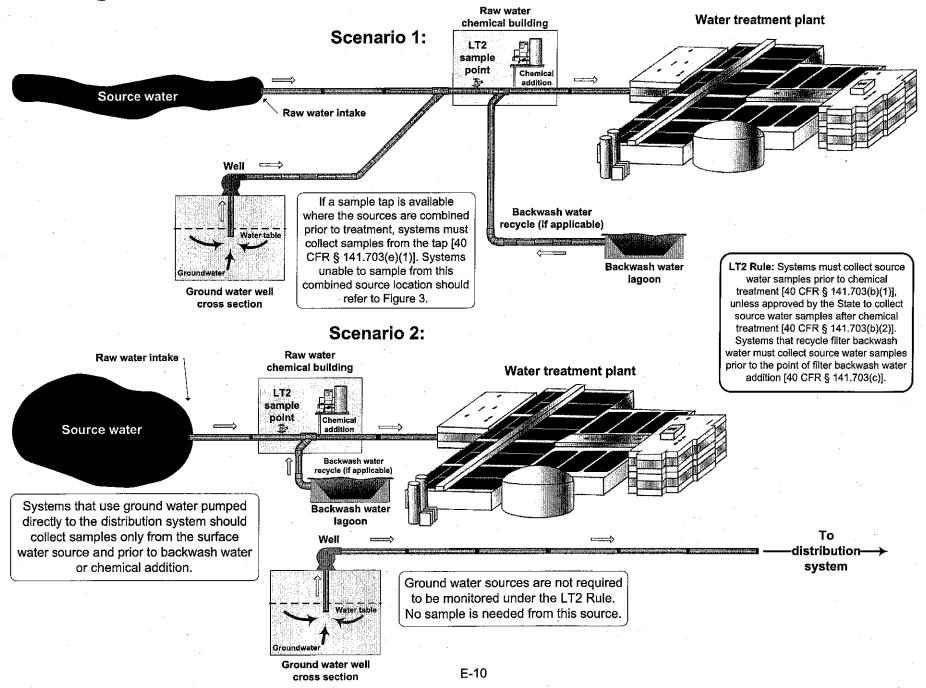
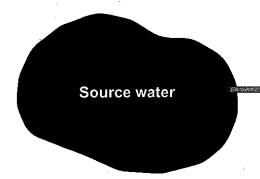


Figure 10. Blank Schematic for Submission to EPA

| Public Water System (PWS) name: | |
|---------------------------------|--|
| PWS ID: | |
| Water treatment plant name: | |
| Water system facility ID: | |

Indicate the following on the diagram that best represents your facility type (if applicable):

- 1. LT2 sampling location
- 2. Points of chemical treatment prior to the treatment plant
- 3. Filter backwash water addition
- 4. Pretreatment processes (e.g., presedimentation basins, bank filtration)
- 5. Multiple source waters (show by adding additional sources)



Water treatment plant

