

# U.S. EPA REGION 8 Drinking Water Program (WY and Tribal-CO, UT, WY, ND, SD, MT)

## Revised Total Coliform Rule (RTCR) Level 1 Assessment Form v.4



PWS ID#:	PWS Name:
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Seasonal System? Y ☐ or N ☐ Open Date: \_\_\_\_\_ Close Date: \_\_\_\_\_ (current season)

Assessment Trigger Date: \_\_\_\_\_ Date assessment completed: \_\_\_\_\_

Cause of Assessment:

**NOTE:** Form to be completed based on data and documents available to the PWS and returned as soon as practical but no later than **30 days** after the collection date of the sample that triggered the assessment.

**Section A:** Review and evaluate all of the elements below, noting their current or prior condition that could have contributed to the TC+ sample result.

### 1.0 SAMPLING SITES

- | Y / N  | Y / N   |
|--|---|
| 1.1 <input type="checkbox"/> / <input type="checkbox"/> Routine total coliform site?                       | 1.4 <input type="checkbox"/> / <input type="checkbox"/> Was the tap area unsanitary?            |
| 1.2 <input type="checkbox"/> / <input type="checkbox"/> Does the tap have a point of use treatment device? | 1.5 <input type="checkbox"/> / <input type="checkbox"/> Does the tap have a swivel-type faucet? |
| 1.3 <input type="checkbox"/> / <input type="checkbox"/> Any plumbing additions or repairs?                 | 1.6 <input type="checkbox"/> / <input type="checkbox"/> Is sample tap on a dead-end main?       |

1.7 Describe these or any other sampling site related issues that may have resulted in the TC+ result:

### 2.0 SAMPLING PROTOCOL

- | Y / N  | Y / N  |
|--|--|
| 2.1 <input type="checkbox"/> / <input type="checkbox"/> Sampler properly trained for sampling?           | 2.4 <input type="checkbox"/> / <input type="checkbox"/> Other sampler error (specify in comments)? |
| 2.2 <input type="checkbox"/> / <input type="checkbox"/> Aerator and/or gasket removed?                   | 2.5 <input type="checkbox"/> / <input type="checkbox"/> Was tap flushed and disinfected?           |
| 2.3 <input type="checkbox"/> / <input type="checkbox"/> Was a laboratory-provided TC sample bottle used? | 2.6 <input type="checkbox"/> / <input type="checkbox"/> Sample too warm prior to shipping?         |

2.7 Describe these or any other sampling protocol related issues that may have resulted in the TC+ result:

### 3.0 DISTRIBUTION SYSTEM

- | Y / N / NA  | Y / N / NA  |
|---|---|
| 3.1 <input type="checkbox"/> / <input type="checkbox"/> Main breaks noted?  | 3.7 <input type="checkbox"/> / <input type="checkbox"/> Loss of pressure (<20 psi)?   |
| 3.2 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Pump station failures/repairs?                 | 3.8 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Valves recently exercised?   |
| 3.3 <input type="checkbox"/> / <input type="checkbox"/> Power loss?   | 3.9 <input type="checkbox"/> / <input type="checkbox"/> Leaks noted?  |
| 3.4 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Low disinfection residuals (<0.2 mg/L)?        | 3.10 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Mains or service lines repaired?  |
| 3.5 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Recent flushing of fire hydrants or blow-offs? | 3.11 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Air relief valve leaking?   |
| 3.6 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Standing water/debris in valve vault?          | 3.12 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Unprotected distribution cross connections (including stock tanks & yard hydrants)? |

3.13 Describe these or any other related distribution system issues that may have resulted in the TC+ result:

<b>4.0 STORAGE TANK(S)</b> <input style="float: right;" type="checkbox"/> No storage tank(s)	
<i>Review ALL storage tanks and note any problems found at each tank. Attach additional pages if necessary.</i>	
<b>Y / N / NA</b> 4.1 <input type="checkbox"/> / <input type="checkbox"/> Presence of holes in tank? 4.2 <input type="checkbox"/> / <input type="checkbox"/> Debris in tank? 4.3 <input type="checkbox"/> / <input type="checkbox"/> Vandalism/tampering noted? 4.4 <input type="checkbox"/> / <input type="checkbox"/> Tank cleaned within last 5 years? 4.5 <input type="checkbox"/> / <input type="checkbox"/> Is #24 mesh screen used on vents and overflows? 4.6 <input type="checkbox"/> / <input type="checkbox"/> Tank levels were low when sample was taken? 4.7 <input type="checkbox"/> / <input type="checkbox"/> Does hatch have a water tight seal? 4.8 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Failure or improper operation on tank telemetry/altitude valves/controls?	<b>Y / N</b> 4.9 <input type="checkbox"/> / <input type="checkbox"/> High flows through tank or overfilled tank? 4.10 <input type="checkbox"/> / <input type="checkbox"/> Evidence of animals/insects in tank? 4.11 <input type="checkbox"/> / <input type="checkbox"/> Power loss? 4.12 <input type="checkbox"/> / <input type="checkbox"/> Recent repairs on tank(s)? 4.13 <input type="checkbox"/> / <input type="checkbox"/> #24 mesh screen damaged or missing? 4.14 <input type="checkbox"/> / <input type="checkbox"/> Infrequent water use from tank? 4.15 <input type="checkbox"/> / <input type="checkbox"/> Is hatch kept locked or secured?
4.16 Describe these or any other storage tank related issues that may have resulted in the TC+ result:	
<b>5.0 TREATMENT</b> (i.e., sediment filter, disinfection, etc) <input style="float: right;" type="checkbox"/> No treatment	
<b>Y / N / NA</b> 5.1 <input type="checkbox"/> / <input type="checkbox"/> Changes in water quality? 5.2 <input type="checkbox"/> / <input type="checkbox"/> Interruption in treatment/power? 5.3 <input type="checkbox"/> / <input type="checkbox"/> Vandalism/tampering noted? 5.4 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Changes in chemical dosages? 5.5 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Coagulation chemicals added at all times? 5.6 <input type="checkbox"/> / <input type="checkbox"/> Changes in treatment plant operations?	<b>Y / N / NA</b> 5.7 <input type="checkbox"/> / <input type="checkbox"/> Treatment bypassed? 5.8 <input type="checkbox"/> / <input type="checkbox"/> Recent repairs or maintenance performed? 5.9 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Disinfectant added at all times? 5.10 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Filter media upset or contamination? 5.11 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Finished water turbidity increased?
5.12 Describe these or any other treatment related issues that may have resulted in the TC+ result:	
<b>6.0 SOURCES – Well(s)</b> (physically connected to potable water system) <input style="float: right;" type="checkbox"/> No wells	
<i>Review ALL wells and note any problems found at each well. Attach additional pages if necessary.</i>	
<b>Y / N / NA</b> 6.1 <input type="checkbox"/> / <input type="checkbox"/> Wellhead recently opened? 6.2 <input type="checkbox"/> / <input type="checkbox"/> Recent work on pump? 6.3 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Unprotected opening in pump/pump assembly?	<b>Y / N / NA</b> 6.4 <input type="checkbox"/> / <input type="checkbox"/> / <input type="checkbox"/> Damaged pitless adaptor? 6.5 <input type="checkbox"/> / <input type="checkbox"/> Damaged or unscreened well vent? 6.6 <input type="checkbox"/> / <input type="checkbox"/> Defective/damaged well cap/sanitary well seal (bolts missing)?
6.7 Describe these or any other well related issues that may have resulted in the TC+ result:	
<b>6.0 SOURCES – Spring(s)</b> <input style="float: right;" type="checkbox"/> No spring(s)	
<i>Review ALL springs and note any problems found at each spring. Attach additional pages if necessary.</i>	
<b>Y / N</b> 6.8 <input type="checkbox"/> / <input type="checkbox"/> Damaged or poorly maintained spring box?	<b>Y / N</b> 6.9 <input type="checkbox"/> / <input type="checkbox"/> Sources of contamination near spring?
6.10 Describe these or any other spring related issues that may have resulted in the TC+ result:	

**6.0 SOURCES – Purchased Water**☐ No Purchased Water

Y / N

6.11 ☐ / ☐ Water quality issues with supplier?

Y / N

6.13 ☐ / ☐ Low disinfectant residual from supplier (typically  $\leq 0.02$  mg/L)?6.12 ☐ / ☐ Were samples collected at the Master Meter with the wholesale system? If yes, list result(s) in 6.14?6.14 **Describe these or any other purchased water issues that may have resulted in the TC+ result:****7.0 APPLICABLE TO ALL SOURCES**

Y / N

7.1 ☐ / ☐ Change in source water quality?

Y / N

7.4 ☐ / ☐ Changes in source(s)?7.2 ☐ / ☐ Rapid snowmelt or rainfall?7.5 ☐ / ☐ Flooding/run-off inundation at source?7.3 ☐ / ☐ Evidence of animals near source?7.6 **Describe these or any other source water related issues that may have resulted in the TC+ result:**

**Section B: Issue Description** Use this space to provide additional information on potential causes of contamination identified during your assessment. Include corresponding dates with your findings such as dates of sample collection, low pressure events, extreme weather, etc.

☐ **Check if PWS did not find any causes for the contamination.**

**Section C: Uncorrected Significant Deficiencies Identified in Past Sanitary Surveys:** List any possible causes of TC+ samples that were identified as significant deficiencies in a prior sanitary survey and are not yet corrected. Provide the approved corrective action date for those uncorrected significant deficiencies and the status of those corrections.

☐ **Check if PWS does not have any outstanding significant deficiencies.**

**Section D: Corrective Action Taken or to be Taken:** For any possible issues not already being addressed as a significant deficiency, use this space to describe:

- corrective actions completed at the time of this assessment,
- a proposed timetable for any corrective actions not already completed, and
- any interim measures the PWS plans to implement prior to the completion of any corrective actions, including specific milestone dates.

**Failure to meet milestone dates is subject to enforcement and public notice provisions.**

**Certification:** I, the owner or responsible party for the water facility named above, hereby certify that all statements provided above are true and accurate to the best of my knowledge.

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone #: \_\_\_\_\_

Email: \_\_\_\_\_

Please return this form to the EPA Region 8 office as soon as possible. Forms can be emailed to [R8DWU@epa.gov](mailto:R8DWU@epa.gov) or faxed to 303-312-7517.