Waterworks Name:		PWSID No.:						
Course Water Type			City/County:					
Source Water Type:				· · · · · · · · · · · · · · · · · · ·				
Waterworks Type: Comn	nunity		Population Served:					
☐ Nontr	ansient Noncomn	nunity	☐ Seasonal					
☐ Transient Noncommunity		ity	☐ Seasonal					
Owner:					Phone:			
Compliance Monitoring Period:								
Number of Samples	Required	Collected	Total coliform present			E.coli present		
Routine per monitoring period								
Repeat								
Triggered source water								
Date ODW Notified Waterworks Level 1 Assessment Required:								
Assessment Due Date:								
Assessment Conducted Date:								
Reason Level 1 Assessment is required:								
1. 🛛 Two or more coliform present samples								
2. Failure to collect all repeat samples (subsequent to coliform present sample)								
3. Greater than 5% of samples are coliform present								

Waterworks Assessment Instructions

Consider each assessment element listed in the following evaluation form to determine if the element listed may have contributed to the "present" bacteriological sample results.

A response in a highlighted box suggests the assessment element may have contributed to the "present" bacteriological sample results and is a potential Sanitary Defect. Provide an explanation of why the highlighted element could have contributed to the "present" bacteriological sample results in the column titled "Describe any element of concern." Use the "Additional Comments" space on page 4 of the form, if needed. Provide the date and description of Corrective Actions taken in the table on page 5. Provide a list of Additional Actions Needed for uncorrected sanitary defects in the table on page 5. List each item, in any box, by the assessment element number as identified in the first column. Notify the appropriate ODW field office, in writing, no later than seven days after completion of each corrective action, if a corrective action is listed in a submitted schedule.

Notes:

- 1. For wholesale and consecutive waterworks:
 - a. Review records related to flows, pressures, and water quality parameters at the connection(s) with the wholesale water supplier.
 - b. Consecutive waterworks owners shall notify the wholesale water supplier whenever the consecutive system has been triggered to perform a Level 1 Assessment.
 - c. Wholesale waterworks owners shall notify consecutive waterworks owners as total coliform bacteria could have spread to the consecutive waterworks distribution system.
- 2. The Level 1 Assessment must be completed based on data and documentation available to the waterworks operator and maintained on file by the waterworks. The completed Level 1 Assessment must be returned to the appropriate ODW-Field Office within 30 days of being notified that the assessment was triggered.

Rev 09/2017 Page 1 of 6

Waterworks Name:	PWSID No.:

Assessment Elements		Response			Describe any element of concern
		Υ	N	N/A	Describe any element of concern
1. Samı	ole Site				
1.1	Were all sites used listed on approved BSSP?				
1.2	Are the sample tap and the surrounding area clean?				
1.3	Describe sample tap fixtures (e.g., outdoor hose bib, indoor cold water faucet, etc?)				Description:
1.4	Is the sample tap a swivel faucet?				
2. Sam	ple Collection Protocol				
2.1	Was the sample collector properly instructed in collection procedures?				
2.2	Were taps flushed adequately (approx. 5 minutes)?				
2.3	Were aerators removed?				
2.4	Were sample containers sealed/unopened/ untampered prior to use?				
2.5	Were the sample containers/rim or cap contaminated during sampling?				
2.6	Were the taps disinfected?				
2.7	Were samples shipped/delivered per laboratory instruction?				
3. Recent Operational Changes to the System					<u> </u>
3.1	New/different/emergency well used?				
3.2	Changes in operation or treatment?				-
3.3	Any possible contamination events not directly related to operations?				
3.4	If seasonal system, was start-up initiated without flushing and disinfection?				
3.5	Sites with low chlorine residual (<0.2 mg/L)				
3.6	Did power outages occur prior to "present" bacteria results?				
4. Recent Distribution System Event That Might Introduce Contaminants					
4.1	Low water pressure (<20 psi)				
4.2	Cross-connection problem				
4.3	Pump station problem				
4.4	Fire hydrants/blow off used				
4.5	Line break/repair or nearby construction				
4.6	Yard hydrants near sample location				
4.7	Customer complaints about pressure, water quality prior to sampling?				

Rev 09/2017 Page 2 of 6

Waterworks Name:	PWSID No.:

Assessment Elements		Response			- "
		Υ	N	N/A	Describe any element of concern
5. Storag	ge Tanks/Tank Sites				
5.1	Are lot/tank ladder secured from unauthorized access?				
5.2	Are roof access hatches on atmospheric tanks locked and properly sealed?			\boxtimes	
5.3	Are roof vents on atmospheric tanks properly sealed/screened?				
5.4	Are structures water tight/without leak?				
5.5	Any hole/damage in the tank structure that is not sleeved or protected?				
5.6	Are drain and overflow line outlets screened?				
5.7	Have tank(s) been serviced, repaired, or maintained recently?				
5.8	Any recent unusual changes in tank water levels?				
6. Treati	ment Process Upsets Or Change Noted:			\boxtimes	
6.1	Has there been an interruption of treatment operations?				
6.2	Are chemical solution containers uncovered?				
6.3	Does building housing treatment equipment reflect poor house keeping		\boxtimes	\boxtimes	
6.4	Any chlorine residual <0.2 mg/L at entry point to distribution system?				
6.5	Any turbidity values ≥ 0.3 NTU in water entering the distribution system?				
6.6	Did treatment fail to continuously meet 4 log inactivation of viruses requirements?				
7.Water	Supply Well(s)				
7.1	Is well house free of pests/vermin?				
7.2	Is well cap and seal securely in place?				
7.3	Is well casing vent properly screened?				
7.4	Is electrical connection to pump secure and sealed?				
7.5	If there is an air release or screened pressure relief valve, is the release feature piped to grade?				
7.6	Is the wellhead free of any cross-connections?				
7.7	Any hoses left connected to a hose bib w/o a vacuum breaker in well house?				

Rev 09/2017 Page 3 of 6

Waterworks Name:	PWSID No.:

Assessment Elements		espons		Describe any element of concern
		N		bestine any element of concern
Is the well pump blow-off line air gapped w/screened discharge?				
Any recent ponding or flooding around wellhead?				
Is well site secure? (i.e. fenced, gate or building locked)				
Was a triggered source water sample result total coliform present?				
Has the well pump been replaced during the current monitoring period?				
e – Surface/GUDI Water Supply				
turbidity (≥ 100 NTU) within 14 days prior		\boxtimes		Typical turbidity ranges from to
Any sewage overflow, storm water discharge or construction excavation in the vicinity of the source within 14 days prior to sampling?				
e – Spring(s)				
Recent heavy rainfall, flooding event prior to sampling?				Typical turbidity ranges from to
Recent incident of water turbidity (≥ 100 NTU) prior to sampling?				
Has there been any damage, change or repairs to the spring(s) infrastructure?				
Have there been any unusual changes or incidents recently within the spring recharge area prior to the sampling event?				
Additional Comments				
	Supply Well(s) cont. Is the well pump blow-off line air gapped w/screened discharge? Any recent ponding or flooding around wellhead? Is well site secure? (i.e. fenced, gate or building locked) Was a triggered source water sample result total coliform present? Has the well pump been replaced during the current monitoring period? E - Surface/GUDI Water Supply Has there been an incident of raw water turbidity (≥ 100 NTU) within 14 days prior to sampling? Any sewage overflow, storm water discharge or construction excavation in the vicinity of the source within 14 days prior to sampling? E - Spring(s) Recent heavy rainfall, flooding event prior to sampling? Recent incident of water turbidity (≥ 100 NTU) prior to sampling? Has there been any damage, change or repairs to the spring(s) infrastructure? Have there been any unusual changes or incidents recently within the spring recharge area prior to the sampling event?	Supply Well(s) cont. Is the well pump blow-off line air gapped w/screened discharge? Any recent ponding or flooding around wellhead? Is well site secure? (i.e. fenced, gate or building locked) Was a triggered source water sample result total coliform present? Has the well pump been replaced during the current monitoring period? ■ Surface/GUDI Water Supply Has there been an incident of raw water turbidity (≥ 100 NTU) within 14 days prior to sampling? Any sewage overflow, storm water discharge or construction excavation in the vicinity of the source within 14 days prior to sampling? ■ Spring(s) Recent heavy rainfall, flooding event prior to sampling? Recent incident of water turbidity (≥ 100 NTU) prior to sampling? Has there been any damage, change or repairs to the spring(s) infrastructure? Have there been any unusual changes or incidents recently within the spring recharge area prior to the sampling event?	Assessment Elements Y N Supply Well(s) cont. Is the well pump blow-off line air gapped w/screened discharge? Any recent ponding or flooding around wellhead? Is well site secure? (i.e. fenced, gate or building locked) Was a triggered source water sample result total coliform present? Has the well pump been replaced during the current monitoring period? - Surface/GUDI Water Supply Has there been an incident of raw water turbidity (≥ 100 NTU) within 14 days prior to sampling? Any sewage overflow, storm water discharge or construction excavation in the vicinity of the source within 14 days prior to sampling? - Spring(s) Recent heavy rainfall, flooding event prior to sampling? Recent incident of water turbidity (≥ 100 NTU) prior to sampling? Has there been any damage, change or repairs to the spring(s) infrastructure? Have there been any unusual changes or incidents recently within the spring recharge area prior to the sampling event?	Supply Well(s) cont. Is the well pump blow-off line air gapped w/screened discharge? Any recent ponding or flooding around wellhead? Is well site secure? (i.e. fenced, gate or building locked) Was a triggered source water sample result total coliform present? Has the well pump been replaced during the current monitoring period? 2 - Surface/GUDI Water Supply Has there been an incident of raw water turbidity (≥ 100 NTU) within 14 days prior to sampling? Any sewage overflow, storm water discharge or construction excavation in the vicinity of the source within 14 days prior to sampling? 2 - Spring(s) Recent heavy rainfall, flooding event prior to sampling? Recent incident of water turbidity (≥ 100 NTU) prior to sampling? Has there been any damage, change or repairs to the spring(s) infrastructure? Have there been any unusual changes or incidents recently within the spring recharge area prior to the sampling event?

Rev 09/2017 Page 4 of 6

Waterworks Name:	PWSID No.:
Sun	nmary
Assessment Elements/Sanitary Defects	Corrective Action Taken and Date
Additional Actions Nee	eded But Not Completed
Action Needed	Completion Deadline:
Conclusions:	
\square A cause for the contamination was not determined.	
Assistance with assessment provided by:	
Print name of person completing the form:	
Signature:	Date:
Print name of Waterworks Representative:	
Signature:	Date:
	

Rev 09/2017 Page 5 of 6

Waterworks Name:		PWSID No.:				
Reserved for VDH-ODW Review						
	Resp	onse				
	Yes	No	Comments			
1. Has assessment been completed?						
2. Was likely reason for TC+ occurrence found?						
3. Was assessment completed on time?						
4. Have all identified problems or sanitary defects been corrected by the waterworks?						
a. If 'No', has an acceptable schedule of corrective actions been provided?						
b. If a correction schedule is necessary, has schedule been entered into SDWIS?						
•						
ODW Reviewer:						
(Print)						
Date:						

Rev 09/2017 Page 6 of 6