



## Stage 2 Disinfectants and Disinfection Byproducts Rule Operational Evaluation Level (OEL) Report for Purchase Water System

**PWS Name:** Tulahassee PWA

**PWS ID:** OK

I certify that the information in this entire report, including any attachments, is true and accurate to the best of my knowledge.

Signature: *Keisha Currin*

Date: 10-27-23

Printed Name: Keisha Currin

License Number: \_\_\_\_\_

Contact Phone Number: 918-304-797

County: Wagoner

Send the completed report to DEQ **no later than 90 days after being notified** of the analytical results that caused you to exceed the operational evaluation level. Explanations may need additional documentation. If you have questions regarding the OEL Report, please contact the PWS Compliance Coordinator at (405) 702-8100 or [drinkingwater@deq.ok.gov](mailto:drinkingwater@deq.ok.gov).

Mail form to:	Fax form to:	Email form to:
PWS Compliance DEQ WQD P.O. Box 1677 OKC, OK 73101-1677	405-702-8101 Attn: PWS Compliance	Drinkingwater@deq.ok.gov Subject Line: OEL Report

### Acronyms

DBP= Disinfectant By-Products      PWS= Public Water Supply      TOC= Total Organic Carbon

### Section A: Connection with Wholesale System:

- Please list your wholesaler(s) and ID: \_\_\_\_\_
- Do(es) your wholesaler(s) offer a flushing credit?  Yes  No  Don't Know
- Does your system have a contract with your wholesaler(s) that requires water to be delivered to meet all Federal Standard?  Yes  No  Don't Know
- In the last 90 days, have you tested TTHMs and HAA5s at the master meter?  Yes  No  
If yes, what were the results? \_\_\_\_\_
- How many master meters does your system have? 86      If more than one answer the following questions:  
What is the distance between master meters? We only have 1 master meter  
Is the distribution system interconnected?  Yes  No  Don't Know
- During the three months prior to the last DBP sampling, did your wholesaler(s) provide less than 25 psi?  Yes  No  
If yes, for how long \_\_\_\_\_

### Section B: Waterlines

- How many miles of waterlines make up your system? \_\_\_\_\_  Don't Know
- What is the approximate distance between the master meter and farthest point in the system? Approx 5 Miles
- What is the current water loss of your system? Water loss is around 55% and not able to locate  Don't Know
- What is the age of the waterlines? Newest: 1 year old      Oldest: System put in the mid 1970's
- What type(s) of materials make up your system's waterlines? pvc pipe
- During the three months prior to the last DBP sampling, did you add any new waterlines or meters?  Yes  No  
If yes, how much or many? Added 2 new water meters
- Was there an  increase or  decrease in water demand during the three months prior to the last DBP sampling?  
Do you know the cause of the change? Not Sure

8. How many waterline breaks did your system have during the three months prior to the last DBP sampling? Several Breaks
9. Did any of those waterline breaks cause a loss of water pressure (below 25 psi)?  Yes  No  Don't Know  
 If yes, for how long? \_\_\_\_\_  
 Did you receive any dirty water complaints after the loss of water pressure?  Yes  No  Don't Know
10. When is the last time you flushed all of your system's dead ends? Lines are flushed several times a year  Don't Know
11. When is the last time you performed a system wide unidirectional flushing? Every time there is a water line break  Don't Know  
 Attach copy of flush log.
12. How many dead ends does your system have? Approx 8  Don't Know
13. How many dead ends have flush valves? 1 For sure  Don't Know
14. Does your system add chemicals to coat or clean waterlines?  Yes  No  Don't Know  
 If yes, name of chemical(s). \_\_\_\_\_

**Section C: Testing Within the Distribution System**

1. Are you testing for DBPs at other locations besides what is required for compliance?  Yes  No  
 If yes, please list recent results, dates, and general locations in the system: \_\_\_\_\_
2. Are you testing for chlorine residual, temperature, pH and alkalinity in the distribution system?  Yes  No If yes, fill out the table or attach sample logs.

Test	Date	Beginning	Middle	End
Chlorine residual				
Temperature				
pH				
Alkalinity				

\*Please include sample results from the same day at different parts of the distribution system so that the results can be compared.

3. Are you tracking water age?  Yes  No  
 If yes, what was the average water age at the farthest point in the system during the three months prior to the last DBP sampling? \_\_\_\_\_

**Section D: Chlorine Booster Station**

1. Does your system have a chlorine booster station in the distribution system?  Yes  No  
 If no, please skip to section E. If yes, how many? \_\_\_\_\_ Any recent addition?  Yes  No
2. On average, what was the chlorine residual before the booster station(s)? \_\_\_\_\_ mg/L  Free or  Total  
 On average, what was the chlorine residual after the booster station(s)? \_\_\_\_\_ mg/L  Free or  Total
3. Did you test for DBPs directly before and after the booster station(s)?  Yes  No If yes, what was the result before the station \_\_\_\_\_ and after the station \_\_\_\_\_
4. Did you need to  increase or  decrease the amount of chlorine being added during the three months prior to the last DBP sampling?

**Section E: Finished Water Storage**

1. Does your system have finished water storage in the distribution system?  Yes  No  
 If no, please skip to section F.
2. Please provide information about each finished water storage(s):

Tower Name	Date of Last Inspection	Date of Last Cleaning	Single Inlet/Outlet pipe	Drained Recently?	Tower height or Storage capacity	Additional treatment?
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Tower Name	Date of Last Inspection	Date of Last Cleaning	Single Inlet/Outlet pipe	Drained Recently?	Tower height or Storage capacity	Additional treatment?
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

3. Did you test for DBPs before or after the finished water storage(s)?  Yes  No If yes, what were the results before \_\_\_\_\_ or after \_\_\_\_\_

**Section F: Groundwater Wells**

- Does your system have groundwater well(s)?  Yes  No  
If no, please skip to section H. If yes, how many? \_\_\_\_\_ Any recent addition?  Yes  No
- Does your system have a Wellhead Protection Plan?  Yes  No When was it last updated? \_\_\_\_\_
- What is the name of the aquifer the well(s) pull from? \_\_\_\_\_  Don't Know
- Were there problems with the well(s) due to weather changes during the three months prior to the last DBP sampling?  Yes  No If yes, what? \_\_\_\_\_
- Was there an  increase or  decrease in the well(s) pump rate? Why? \_\_\_\_\_
- What potential sources of organic contamination were identified in your wellhead protection plan? \_\_\_\_\_

7. Fill out the following table with information about each well:

Well Name	Age (Yrs.)	Depth	Cl2 Added	Construction Defects
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	

**Section G: Alternative Treatment**

- Does your system have other treatment processes, which were not covered in previous sections?  Yes  No  
If yes, please list the type: \_\_\_\_\_

**Section H: Minimizing Future DBP Formation and Returning to Compliance**

1. What is your system's plan to decrease DBP formation and return to compliance? The plan implemented is to stay in connection with out water supplier and the City of Muskogee. The city of Muskogee is where Porter Water Works purchases water from. However, it is water tank that Porter uses that provides water for our system. We believe this system has been fixed. However, our system still has the same levels of contamination. Hopefully the City of Muskogee will get the issue fixed on their own that would improve the quality of our water.

**Section I: Communication**

- Since your PWS exceedance, has your PWS communicated with your parent water systems about any of the following topics (list the PWSs and when):
  - Sampling Methods or Schedules NO
  - System-wide unilateral flushing No
  - Disinfectant levels in distribution system NO
  - Current problems within your system yes

**Section J: Technical Assistance**

Do you need technical assistance from DEQ for any of the following:

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Disinfectant Control/ Monitoring | <input type="checkbox"/> TOC Removal/ Treatment Plant             | <input checked="" type="checkbox"/> Storage Tank Maintenance |
| <input checked="" type="checkbox"/> Flushing Program      | <input checked="" type="checkbox"/> Financial/ Rate Analysis      | <input type="checkbox"/> Sample Point/Schedule               |
| <input type="checkbox"/> Water Age                        | <input type="checkbox"/> Asset Management                         | <input type="checkbox"/> Other: _____                        |
| <input type="checkbox"/> O & M Plan Development           | <input type="checkbox"/> Source Water Protection Plan Development |  |