

OSP

Arkansas Department of Health
Public Water Supply Sanitary Survey

Name of System Tontitown Waterworks **PWS #** 566

County Washington

Date of Survey February 8, 2023

Survey By Adam Parker, E.I.

Title District 1 Engineer

Public Water Supply Sanitary Survey

Arkansas Department of Health

Name of System: Tontitown Waterworks PWS # 566
 Address: Mailing: P.O.Box 127, Tontitown, AR 72770 Physical: 201 E. Henri de Tonti Blvd., Springdale, AR 72762
 Manager: James Clark License #: 06639D4T3 Telephone #: 479-361-2700
 Alternate Telephone #: 479-361-2996 Cell #: 479-263-2916 Fax #: 479-421-0012 E-mail Address: pwdirector@tontitownar.gov
 Treatment Plant Supervisor: _____ License #: _____ Telephone #: _____
 Distribution System Supervisor: James Clark License #: 06639D4T3 Telephone #: 479-361-2700
 Number of Licensed Employees: 3 # of Treatment Licenses: 2 # of Distribution Licenses: 3
Mayor/Chairman/President/Other: Angela Russell (H) Telephone #: _____
 Address: P.O. Box 305 Tontitown, AR 72760 (W) Telephone #: 479-361-2700

of Services: 2412 %Metered: 100 Total Pop. Served: 5718 Retail Pop.Served: 5718 Consecutive Pop.Served: 0
 # Domestic: 2003 # Commercial: 284 # Wholesale: 0 # Industrial: 0 # Irrigation: 125
 Engineering District: 1 County Name: Washington County Code #: 72
 Plumbing Inspector: Roger Duncan License #: PI03244

Plant Name & ID		Type of Plant	Construction Date	# of Sources	Type(s) of Source
Barrington MM #1	566101	Master Meter	2001	1	Surface Purchase
Kissinger MM #2	566201	Master Meter	1988	1	Surface Purchase
Sunset MM #3	566301	Master Meter	2000	1	Surface Purchase
BWRPWA MM	566501	Master Meter	2020	1	Surface Purchase

Maximum System Capacity: 2.0* MGD (All Plants)
 Total System Storage: 0.5 MG Useable System Storage: 0.5 MG

Production Figures									
System Segment		Capacity (MGD)	Limiting Factor	Code	Maximum Demand		Average Demand		Population Served
Plant Name & ID					(MGD)	%Cap.	(MGD)	%Cap.	
Barrington MM#1	566101		Emergency						
Kissinger MM#2	566201		Emergency						
Sunset MM#3	566301		Emergency						
BWRPWA MM	566501	2.0	Contract	8	1.087	54.3%	0.606	30.3%	5718
Primary System*		2.0	Contract	8	1.087	54.3%	0.606	30.3%	5718
Consecutive Systems			PWS ID #	Status					
Industrial Demand			(Status: P – Primary, E – Emergency, I – Intermittent, O – Other)						
Unaccounted-for Water		29.5 %							

Estimated Calculated

Identify Significant Deficiencies: _____

Give brief evaluation of system condition and operation: Tontitown Waterworks is a surface purchase system that purchases water from BWRPWA through a single master meter and has an emergency connection from SWU. The distribution system is one single pressure plane with a single pump station and elevated storage tank and another tank planned.

If not already installed, all emergency connections should be installed with a means for flushing on both sides of the meter where dead-end lines are created by the non-use of the meter. Additionally, if there is no intention to use some or all of the emergency connections, we would recommend the proper abandonment of those connections along with the aforementioned installation of a means for flushing.

*Information for Maximum System Capacity and Primary System does not include emergency connection or inactive connections.

Name of System: Springdale Waterworks PWS # 560

Purchase Source

Source Entity ID #: 101 Source: (# 1 of 4)

PWS Source Name: Springdale Water Utilities (36.192676, -94.229690)

PWS ID #: 575 Maximum Purchase Agreement: N/A MGD

- | Yes | No | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Are maximum purchase agreements adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Has the system been free from shortages of source in the past? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Does source system have adequate emergency plan? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is source system's overall operation in accordance with the regulations? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Is master meter read routinely and reading recorded? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Is connection to source system adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Is connection to source system provided with adequate backflow prevention? |

Comments: Barrington Master Meter. This meter is valved off and locked but not physically disconnected. It is not intended to be used as an emergency connection. No other treatment provided.

Source Entity ID #: 201 Source: (# 2 of 4)

PWS Source Name: Springdale Water Utilities (36.153164, -94.2017725)

PWS ID #: 575 Maximum Purchase Agreement: N/A MGD

- | Yes | No | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Are maximum purchase agreements adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Has the system been free from shortages of source in the past? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Does source system have adequate emergency plan? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is source system's overall operation in accordance with the regulations? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Is master meter read routinely and reading recorded? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Is connection to source system adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Is connection to source system provided with adequate backflow prevention? |

Comments: Kissinger Master Meter. This is a 3" master meter. This meter is valved off and locked but not physically disconnected. It is not intended to be used as an emergency connection. No other treatment provided.

Source Entity ID #: 301 Source: (# 3 of 4)

PWS Source Name: Springdale Water Utilities (36.175964, -94.210675)

PWS ID #: 575 Maximum Purchase Agreement: N/A MGD

- | Yes | No | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Are maximum purchase agreements adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Has the system been free from shortages of source in the past? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Does source system have adequate emergency plan? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is source system's overall operation in accordance with the regulations? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Is master meter read routinely and reading recorded? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Is connection to source system adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Is connection to source system provided with adequate backflow prevention? |

Comments: Sunset Master Meter. This is an 8" master meter that previously accounted for 90% of the system's purchased water. This meter is now the system's sole active emergency connection from SWU. The maximum flow observed by system while utilizing this meter as the primary source for the system was approximately 0.75 MGD. No other treatment provided.

Name of System: Fountain Waterworks PWS # 506

Purchase Source

Source Entity ID #: 501

Source: (# 4 of 4)

PWS Source Name: Benton-Washington Regional PWA (36.165448, -94.434602)

PWS ID #: 871 Maximum Purchase Agreement: 2.0 MGD

- | Yes | No | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Are maximum purchase agreements adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Has the system been free from shortages of source in the past? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Does source system have adequate emergency plan? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is source system's overall operation in accordance with the regulations? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Is master meter read routinely and reading recorded? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Is connection to source system adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Is connection to source system provided with adequate backflow prevention? |

Comments: BWRPWA Master Meter. This new master meter is now the system's primary source and has been in service since April 2020. No other treatment provided.

Source Entity ID #: _____

Source: (# ___ of ___)

PWS Source Name: _____

PWS ID #: _____ Maximum Purchase Agreement: _____ MGD

- | Yes | No | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Are maximum purchase agreements adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Has the system been free from shortages of source in the past? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Does source system have adequate emergency plan? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is source system's overall operation in accordance with the regulations? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Is master meter read routinely and reading recorded? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Is connection to source system adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Is connection to source system provided with adequate backflow prevention? |

Comments: _____

Source Entity ID #: _____

Source: (# ___ of ___)

PWS Source Name: _____

PWS ID #: _____ Maximum Purchase Agreement: _____ MGD

- | Yes | No | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Are maximum purchase agreements adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Has the system been free from shortages of source in the past? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Does source system have adequate emergency plan? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Is source system's overall operation in accordance with the regulations? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Is master meter read routinely and reading recorded? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Is connection to source system adequate? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Is connection to source system provided with adequate backflow prevention? |

Comments: _____

Area of Survey: Fourtown Waterworks PWSID: 500

Monitoring, Reporting, and Data Verification

Laboratory Testing & Equipment				
Lab Tests	Frequency	Sample Location	Method	Make & Model #
Chlorine	Daily	Bacti Sample Sites	DPD	Hach Pocket Colorimeter II
Chlorine	Continuous	Booster Pump Station	DPD	HF Scientific CLX

Calibration Records						
		Calibration Frequency	Date Last Calibrated	Are Calibration Logs Available	Field Verification	
					ADH Results	System Results
Disinfectant Analyzers	Pocket				1.06 mg/L (Total)	1.17 mg/L (Total)
	Online				1.06 mg/L (Total)	1.34 mg/L (Total)

- Yes No N/A**
- 1. **Are laboratory facilities, testing equipment, and procedures, accurate, adequate, and operable?**
 - 1.1 Are records of lab tests being maintained?
 - 1.2 Do reagents used have an unexpired shelf life?
 - 1.3 Are continuous turbidimeters and recorders provided on each filter?
 - 1.4 Is continuous chlorine analyzer and recorder provided on plant effluent?
 - 2. Is all routine compliance monitoring up-to-date? (Check monitoring status report.)
 - 2.1 Are the proper numbers of bacti samples being collected? Number required? 7
 - 2.2 For surface systems with conventional treatment, is raw water alkalinity being monitored?
 - 2.3 For systems using chlorine dioxide, are daily entry point analysis for ClO₂ residual and Chlorite being collected and reported?
 - 3. Is the system monitored according to ADH approved methods and sample site plan(s)? Bacti CT Disinfectant Residual THM HAA5 ClO₂ Residual Distribution System Samples N/A Chlorite Distribution System Samples N/A Other _____
 - 4. Is the system in compliance with the monitoring and reporting requirements of the Lead and Copper Rule as outline in their approved Optimal Corrosion Control and Treatment plan?
 - 5. Are fluoride check samples submitted monthly?
 - 6. Are daily fluoride analyses performed, results recorded, and submitted monthly?
 - 7. **Does the system accurately complete Monthly Operational Report forms?**
 - 7.1 Has the system submitted Monthly Operational Report forms on time?
 - 7.2 Does the system have the proper records on file and available for review? Sanitary Surveys Bacteriological and Chemical Analysis Reports Source Water Assessment Report Sample Site Plans Optimal Corrosion Control and Treatment Plan for Lead & Copper Rule N/A Disinfection Profile and Benchmark Report N/A Individual Filter Monitoring Data N/A Filter Profile Report N/A Filter Self-Assessment Report N/A CPE report N/A CCR Other _____

Comments: System has been instructed to begin reporting Free Chlorine readings instead of Total Chlorine readings. System installed online instrumentation to monitor incoming chlorine residual at the Robinson BPS. System generally cycles through all active sample sites but has not utilized sites 566B024 and 566B017 within the last year and has only utilized site 566B002 once within the last year. All active sample sites shall be regularly utilized throughout the year. As such, the system shall begin utilizing these three sample sites regularly throughout the year.

Name of System: Tontitown Waterworks

PWS # 566

Storage Facilities

Name / Location	Total Capacity (Gallons)	Useable Volume (Gallons)	Type of Storage	Overflow Elevation (Ft - MSL)	Control System
Tank #1	500,000	500,000	Elevated	1480	SCADA
Total:	500,000	500,000	Useable Storage at Average Demand:		19.8 Hours
			Total Storage at Average Demand:		19.8 Hours

Name / Location	Latest Inspection	Last Inside Painting	Latest Outside Painting	Overflow Location	Comment
Tank #1	Constructed 2020	Constructed 2020	Constructed 2020	12"-24" from ground	Listed Below

- Yes** **No**
- 1. Are the storage tanks in a state of good repair and maintained to ensure water quality and the reliability of the water system?**
 - 1.1 Are overflow line, air vent, drain line and roof hatch properly constructed, covered or screened?
 - 1.2 Do low water levels provide adequate pressures?
 - 1.3 The interior tank conditions/coatings do not pose a threat to public health. Unknown
 - 1.4 Are instruments and controls adequate, operational and being utilized?
 - 1.5 Are sites properly drained and protected from flooding?
 - 1.6 Is control valve pit properly drained and protected from flooding?
 - 1.7 Are tanks adequately protected against corrosion?
 - 1.8 Are sites adequately protected against vandalism? Site fenced and locked Roof hatch locked
 Bottom rung of ladder removed Other _____
 - 1.9 Are tanks disinfected after cleaning and / or repairs?
 - 1.10 What is the inspection / cleaning frequency for the tanks? Planned for at least every 5 years
 - 2. Can tank be isolated from system and drained?**

Comments: New pump station has been in service since the system has been served by BWRPWA beginning in April 2020. System plans to inspect the tank at least every 5 years.

Name of System: DeWittville Waterworks County: Franklin State: Arkansas

Distribution System

- | <u>Yes</u> | <u>No</u> | |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Are pressures in all portions of the system maintained above 20 psi during peak demand?
If no, give reason: _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Is a detectable disinfectant residual level maintained in all portions of the system? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Is a sufficient number of valves provided, properly located, and are they accessible? |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3.1 Does the system have a valve exercise / replacement program? |
| | | 4. What piping materials are used? (Estimate percentage) <u>22%</u> DI/CI <u>77%</u> PVC <u>0</u> Galvanized
<u><1%</u> AC Other: _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Has the distribution system been free of water quality problems? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Does the system have an adequate maintenance and flushing program? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Are mains and appurtenances properly flushed, disinfected and tested after repairs or extensions? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8. Is a licensed plumbing inspector available? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9. Does the system have a meter replacement program? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10. Does the system have a leak detection program? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11. Is the overall condition of the distribution system acceptable? |

Comments: Due to growth and limited staff, system no longer has a valve exercise program. System should work toward implementing a valve exercise program along with hiring necessary staff to ensure that these system needs are met. System flushes certain problem areas monthly. In 2018 all meters were replaced. System plans to replace meters on a 10-year cycle or more frequently as needed. System utilizes acoustic leak detection equipment to locate leaks for repair.

Cross-Connection Control

- | <u>Yes</u> | <u>No</u> | <u>N/A</u> | |
|-------------------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. Does the system have an active Cross-Connection Control Program? |
| | | <input type="checkbox"/> | 1.1 Who is responsible for the Cross Connection Control Program? <u>James Clark</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 1.2 Does the governing body have an ordinance, by-law or written resolution specifically addressing cross connection control? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 1.3 Is the system requiring annual testing of backflow preventers and keeping records of the tests? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | | 2. Is the system free of high-hazard unprotected cross-connections? <input type="checkbox"/> Treatment Plant
<input type="checkbox"/> Pumping Facilities <input checked="" type="checkbox"/> Distribution |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. Is a Cross-Connection Control Program being enforced for high-hazard services? |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3.1 Have all commercial and industrial customers been surveyed? |

Comments: System tracks all new and existing back flow preventer and enforces yearly testing requirement. After a customer has been delinquent on testing their back flow preventer for a certain period of time, the unit is tested by system staff for a fee or, if denied access to complete the inspection, the system will ultimately shut off service to customer.

Name of System Lumberton Waterworks, Inc. (City of Lumberton) PWS# 500

System Operations & Management

Identify the management structure of water system.

Mayor/Council Board of Directors Commission Other _____

MEMBERS NAME	TITLE
Angela Russell	Mayor
Misty Piazza	Councilperson (Ward 1, Position 1)
Amber Ibarra	Councilperson (Ward 1, Position 2)
Daniel Montez	Councilperson (Ward 2, Position 1)
Larry Ardemagni	Councilperson (Ward 2, Position 2)
Mike Washkowiak	Councilperson (Ward 3, Position 1)
Tim Burruss	Councilperson (Ward 3, Position 2)

- Yes** **No**
- 1. Is a current (i.e. less than 10 years old) Long-Range Plan/Master Plan on file with ADH?
 Long Range Plan (Date _____) Master Plan (Date February 2021)
 - 2. A written emergency plan is on file at the water system.
 - 3. The emergency plan is up to date and contains the proper names, numbers, etc.
 - 4. **Management provides the necessary budget, personnel, security measures, maintenance or repair parts to meet regulatory requirements and provide for the production of an adequate quantity of safe drinking water.**
 Adequate budget Sufficient / Qualified staff Adequate / Sufficient parts inventory
 Other ***see comments below.**
 - 5. Have all major modifications (since previous survey) been approved by ADH?
 - 6. Are the systems records being maintained according with regulatory requirements?
 Maintenance and repair records System maps Operating reports
 - 7. Is the maximum demand less than 80 percent of capacity (i.e. source, plant, pumping)? If no, discuss corrective actions.
 - 8. If the system has greater than 15% unaccounted for water, are corrective actions being taken? Discuss corrective actions. (N/A)
 - 9. Has the system been free of any violations since the last survey?
 TCR MRDL IOC VOC SOC Radio-chemicals
 THM (N/A) HAA5 (N/A) Bromate (N/A) Chlorite (N/A)
 Combined filter turbidity (N/A) Plant Effluent Disinfectant Residual (N/A)
 CT Enhanced Coagulation – TOC removal (N/A) Other _____
 - 10. Is system's Disinfection By-Product levels less than 80% of the MCL and not trending upward significantly since the last survey? TTHM HAA5 Bromate (N/A) Chlorite (N/A)
 - 11. What is the required license grade level for this system? Treatment 0 Distribution 2
 - 12. Does system have a completed source water assessment?
 - 13. Is source water assessment report on file and accessible to the public?

Comments: Since beginning to purchase from BWRPWA instead of SWU, system is no longer at or above 80 percent of capacity. In addition to in house leak detection, system utilizes a third-party company to help identify the location of leaks when it suspects leakage in areas around the system. System received notice of violations for elevated levels of TTHMs during 2020 but has not had an issue with TTHMs since switching BWRPWA as their primary source.

Name of system: Tontitown Waterworks Date: 1/17/2006

Operator Certification

- 1. The operator(s) or responsible person(s) in charge of the treatment facility and/or distribution facilities have the required State certification.
- 2. Are all persons making individual judgements that affect water quality properly licensed?
- 3. Does the system have a sufficient number of licensed staff to perform all water quality related duties?
- 4. Are operators provided training in the proper use of safety equipment?

Operator	Title	License #
James Clark	Public Works Director	06639D4T3
Phillip Arends	Operator	10322D3T4
Mark VanDyke	Operator	10791D1

Comments: _____

Contact Information

Emergency Contact Person: James Clark Emergency Contact Phone Number: 479-263-9216

Type Code	Contact Name	Title	Mailing Address	City	State	Zip Code	E-Mail
A,B,R	James Clark	Public Works Director	P.O. Box 305	Tontitown	AR	72770	pwdirector@tontitownar.gov
\$	Madelyn Parker	Billing Clerk	P.O. Box 127	Tontitown	AR	72770	billing@tontitownar.gov
O	Angela Russell	Mayor	P.O. Box 305	Tontitown	AR	72770	mayor@tontitownar.gov

Type Codes: **A** – Primary Contact; **B** – Bacteriological Sample Bottle Mailing; **\$** - Billing; **O** – System Owner / Responsible Party; **Z** – Administrative Address; **F** – Fax; **M** – Mobile Phone; **G** – Pager; **W** – World Wide Web Site; **I** – Internet E-Mail; **R** – Operator; **T** – Water Treatment Plant / Facility; **D** – Distribution Facility; **P** – Pumping Facility; **S** – Storage Facility; **L** – Location; **E** – Employee; **V** – Vendor; **X** – Other

Tontitown Waterworks Distribution Schematic

