MISSISSIPPI STATE DEPARTMENT OF HEALTH

REPORT OF INSPECTION OF DRINKING WATER SUPPLY

PWS: 0610008 **Class:** D

An inspection of the FANNIN WATER ASSN-NORTH water supply in RANKIN county was made on 11/18/2025. Present at the time of inspection was ANDREW H BOYD, OPERATOR; WRITER . Official JAMES GOULD Address 2653 HWY 471 BRANDON MS 39047 W.W. Operator ANDREW H BOYD Address P O BOX 363 SANDHILL MS 39161 No. Connections 2913 No. Meters ___ Population Served 7690 Field Chemical Analysis: pH ___ Cl2(free) 2.1 Cl2(total) ___ H2S N/A Iron ___ Fluoride ___ Point of Sampling DISTRIBUTION Water Rates ___ This inspection included a sanitary survey for compliance with the Ground Water Rule.

COMMENTS

Technical: 48/51 Managerial: 33/33 Financial: 16/16

OVERALL CAPACITY RATING: 97 / 100

1. This inspection serves as the Sanitary Survey as required under the Ground Water Rule. The following aspects of the water system were evaluated: source, treatment, distribution system, finished water storage, pump/pump facilities/controls, monitoring/reporting/data verification, water system management/operation, and operator compliance. No significant deficiencies were observed during the survey.

2. Adequate chlorine residual was found throughout the distribution system and required SDWA records were available for review and well organized. Chlorine residual is checked and recorded as required. The following field chlorine readings were observed: standpipe- 2.5 mg/l free residual.

3. At the time of inspection, well 04 was out of service for repairs.

4. Tank inspections were completed April 2024.

5. The system reports 32% water loss.

6. Fluoride feed equipment has not been put online.

7. We recommend system officials consider an emergency connection with a neighboring system.

8. A meter replacement program is in place.

9. Results from the 2024 pumping test were provided during the inspection. In order to continue to receive credit for T4, pump tests must be conducted on the wells at least once every two years. For systems over 80% of design capacity, pump tests are required each year.

10. Well 01 is used as standby only. This well will remain on active inventory as long as chlorination equipment is present but is not included in the design calculation since it cannot run with well 04 running. This well should be routinely pumped.

11. We recommend chlorine analyzers (or vacuum analyzers) be considered.

12. The Security Vulnerability Self-Assessment and Emergency Response Plan must be updated annually. An updated copy was available for review.

Completed by Greg Caraway, P.E. on 11/25/2025.

Reviewed by William F. Moody, Bureau Director on 11/26/2025.

If you have any questions, please call (601)576-7518.

pc:

JAMES GOULD, OFFICIAL
ANDREW H BOYD, OPERATOR

MISSISSIPPI STATE DEPARTMENT OF HEALTH

Bureau of Public Water Supply

FY 2026 Public Water System Capacity Assessment Form

Standard Form

PWS ID#	PUBLIC WATER SYSTEM
0610008	FANNIN WATER ASSN-NORTH
SURVEY DATE	COUNTY
11-18-2025	RANKIN
CONNECTIONS	POPULATION
2913	7690
CLASS	CERTIFIED WATERWORKS OPERATOR
D	ANDREW H BOYD

A+

97

Overall Score

Technical	Managerial	Financial
48/51	33/33	16/16

Technical Capacity Assessment — 48 of 51 points

T1	Does the water system have any significant deficiencies? ○ Y ◉ N	Points **7/7**
T2	Was the water treatment process functioning properly? ◉ Y ○ N	Points **4/4**
T3	Was needed water system equipment in place and functioning properly at the time of survey? ◉ Y ○ N	Points **3/3**
T4	Were records available to the RE clearly showing that all water storage tanks have been inspected and cleaned or painted (if needed) within the past 5 years? ◉ Y ○ N ○ NA	Points **3/3**
T5	Was the certified waterworks operator or his/her authorized rep present for survey? ◉ Y ○ N	Points **3/3**
T6	Was PWS Operations record up to date and properly maintained? ◉ Y ○ N	Points **3/3**
T7	Was the water system properly maintained at the time of survey? ◉ Y ○ N	Points **3/3**
T8	Does the system have adequate capabilty for testing the water quality of the system and could operator personnel perform all water quality tests required to properly operate this water system? ◉ Y ○ N	Points **2/2**
T9	Does water system routinely track water loss and were acceptable records available for review? ◉ Y ○ N	Points **3/3**

T10	Is the water system overloaded? Cannot exceed MSDH design capacity, consecutive systems overloaded if supplier overloaded or based on hydraulic calculations or pressure recording. ○ Y ◉ N	Points **3/3**
T11	Was there any indication that the water system is/has been experiencing low pressure in any part(s) of the distribution system? ○ Y ◉ N	Points **3/3**
T12	Are well pumping tests performed routinely? ◉ Y ○ N ○ NA	Points **3/3**
T13	Does the water system have the ability to provide water during power outages? ◉ Y ○ N	Points **3/3**
T14	Does the water system have a usable backup source of water? ◉ Y ○ N	Points **3/3**
T15	For Groundwater systems – can the water system meet maximum daily demands with the largest producing source/ treatment facility out of service? OR For Surface Water systems – Can the water system meet maximum daily demands based on 1 in 50-year drought calculations or the extreme drought of record? ○ Y ◉ N ○ NA	Points **0/3**
T16	Does the system have a functioning control system for facility operations? (SCADA, Automatic Controls, etc.) ◉ Y ○ N ○ NA	Points **2/2**

Managerial Capacity Assessment — 33 of 33 points

M1	Does the PWS maintain or can the system access, via the PWS Portal, all SDWA required records? (Physical records in logical and orderly manner?) ● Y ○ N	Points **3/3**
M2	Have acceptable written policies and procedures for operating this water system been formally adopted and available for review? ● Y ○ N	Points **3/3**
M3	Have all Board Members (in office more than 12 months) completed Board Member Training? ● Y ○ N ○ NA	Points **3/3**
M4	Does the Board meet monthly and were minutes of Board meetings available for review? ● Y ○ N ○ NA	Points **2/2**
M5	Has the water system had any SDWA violations since the last Capacity Assessment? ○ Y ● N	Points **6/6**
M6	Has the water system developed or is in the process of developing its asset management plan to support its long-range improvements plan and were these plans available for review during the survey? ● Y ○ N	Points **3/3**
M7	Does the water system have an effective cross connection program in compliance with MSDH regulations? ● Y ○ N	Points **2/2**

M8	Were copies of the MSDH approved sample site plans (RTCR, LCR, and DPB) available for review? Do results show site plans are being followed? ● Y ○ N	Points **3/3**
M9	Does the system keep records of all customer complaints? ● Y ○ N	Points **2/2**
M10	Does the system have an adequate backup plan for staffing to ensure that vital operational action are covered? ● Y ○ N	Points **2/2**
M11	Does the System have a up to date Security Vulnerability Analysis or Risk and Resilience Assessment in place and available for review? ● Y ○ N	Points **2/2**
M12	Does the System have an up to date Emergency Response Plan available for review at the time of inspection? ● Y ○ N	Points **2/2**

Financial Capacity Assessment — 16 of 16 points

F1	Has the water system raised water rates in the past 3 years? ● Y ○ N	Points **3/3**
F2	Has the water system performed a rate study within the past 5 years ? ● Y ○ N	Points **2/2**
F3	If the rate study was performed, did the system act upon its recommendations? ● Y ○ N ○ NA	Points **2/2**
F4	Is the water system following an official cut-off policy? ● Y ○ N	Points **3/3**
F5	Was a copy of system's adopted annual budget available for review and does financial accounting system clearly and accurately track receipts and expenditures? ● Y ○ N	Points **2/2**
F6	Was the latest financial report/audit report available for review? ● Y ○ N	Points **2/2**
F7	Does the latest report show that receipts exceed expenditures? Excluding out of pocket for major improvements or for Municipal govts - Are the water and sewer fund accounts separate from other accounts? ● Y ○ N	Points **2/2**

Completed by Greg Caraway, P.E. on 11/25/2025

Reviewed by William F. Moody, Bureau Director on 11/26/2025

MISSISSIPPI DEPARTMENT OF HEALTH
BUREAU OF PUBLIC WATER SUPPLY
DESIGN CAPACITY SHEET

System: **FANNIN WATER ASSN-NORTH**
ID: **0610008** Class: **D** County: **RANKIN**

Date Completed: **11/25/2025**
Connections - Actual: **2913** Equivalent: **2913**
Design Capacity: **3668** Percent Design Capacity: **2913/3668 = 79.4%**

Source Capacity

Well 1 - 278 gpm (standby only, not included in calculation)
Well 2 - 394 gpm
Well 3 - 384 gpm
Well 4 - 329 gpm (out of service at time of inspection)
Well 5 - 535 gpm
total = 1313 gpm

December 2024 pump test
(well 01 and well 04 cannot run at the same time due to proximity to each other, well 04 down for repairs), refill = 1313 x 360 = 472,680

Storage Capacity

157,000 Standpipe 1 acts as elevated storage
157,000 Standpipe 2 acts as elevated storage
157,000 Standpipe 3 acts as elevated storage

Design Capacity = Total Well Capacity + Storage Capacity/200
= 1313 + 471,000/200
= 4155 gpm

Total Design Capacity = 3668 Connections

NOTE: THIS SYSTEM HAS TWO BOOSTER STATION THAT SERVE 35 CUSTOMERS. THIS BOOSTER STATION IS NOT OVERLOADED AND CREDIT FOR THE BOOSTER STATIONS GIVEN. (November 2025: offline, removed from calculation)

All users reported as residential

---

calculation w/o largest well:
384 + 394 + [(384 + 394) X 360] /200 = 2178