

Region 6 - Enforcement & Compliance Assurance Division

INSPECTION REPORT

Inspection Date(s):	05/07/2025	
Media Program:	Water	
Regulatory Program(s)	SDWA	
Company Name:	City of Monroe	
Facility Name:	City of Monroe	
Facility Physical Location:	2401 N 10 th St	
(city, state, zip code)	Monroe, LA, 71201	
Mailing address:	2401 N 10 th St	
(city, state, zip code)	Monroe, LA, 71201	
County/Parish:	Ouachita	
Facility Phone Number	(318)-329-2495	
Facility Contact:	Sean Benton	Water System Manager
	sean.benton@ci.monroe.la.us	
FRS Number:	-	
Identification/Permit Number:	PWS ID#: LA1073031	
Media Identifier Number:	-	
NAICS:	-	
SIC:	-	
Personnel participating in inspection:		
Fatima Shaikh	EPA Region 6	Inspector
Heidi Rausch	EPA Headquarters	Inspector
Barbara Featherson	Louisiana Department of Health	District Engineer
Tyler Lollis	Louisiana Department of Health	Regional Engineer
Derek Delo	Louisiana Department of Health	Engineer Intern
Nathan Morris	City of Monroe	Water Treatment Plant Superintendent
Sean Benton	City of Monroe	Water System Manager
Joctoria Price	City of Monroe	Water Distribution Superintendent
Tamala Bailey	City of Monroe	Compliance Specialist
Kenneth George	City of Monroe	Network Administrator
Jeshirl Brice	City of Monroe	IT Director
Ieshea Hollins	Direnzic	CISO
Dewayne McKinney	Direnzic	Analyst
EPA Lead Inspector Signature/Date	FATIMA SHAIKH Digitally signed by FATIMA SHAIKH Date: 2025.07.08 14:29:23 -05'00'	7/8/2025
	{Inspector name}	Date
Supervisor Signature/Date	RUBEN ALAYON-GONZALEZ Digitally signed by RUBEN ALAYON-GONZALEZ Date: 2025.07.08 15:03:08 -05'00'	7/8/2025
	{Supervisor name}	Date

Section I – INTRODUCTION

PURPOSE OF THE INSPECTION

EPA inspectors Fatima Shaikh and Heidi Rausch arrived at the City of Monroe Water Treatment Plant (WTP) at approximately 9:00 am on May 7, 2025, for an announced Safe Drinking Water Act (SDWA) inspection of the City of Monroe Water System, Public Water Supply (PWS) ID No. LA1073031. The inspection was part of the National Enforcement and Compliance Initiative (NECI) Measure 1.4 which aims to evaluate and address 50% of all Community Water Systems (CWS) serving populations greater than 10,000.

We met with Nathan Morris, City of Monroe WTP Superintendent; Sean Benton, Water System Manager; Joctoria Price, City of Monroe Water Distribution Superintendent; Kenneth George, City of Monroe Network Administrator; Jeshirl Brice, City of Monroe IT Director; Tamala Bailey, City of Monroe Compliance Specialist; Ieshea Hollins, Direnzc CISO; Dewayne McKinney, Direnzc Analyst. Barbara Featherson, Tyler Lollis, and Derek Delo from LDH also attended the inspection. Fatima Shaikh and Heidi Rausch presented their credentials to the system representatives and informed them that this was an EPA inspection to evaluate the system under the SDWA. Additionally, the inspectors evaluated the Risk and Resilience Assessment (RRA), Emergency Response Plan (ERP), and cybersecurity practices under the SDWA Section 1433(a) and (b), which require community water systems that serve more than 3,300 people to develop and certify completion of an RRA and ERP.

This report summarizes observations made during the inspection, which consisted of the following activities:

- Site visits to the System's WTP:
 - Surface Water Intake
 - Nine (9) aerators
 - Flocculators
 - Sedimentation Basins
 - Six (6) filters
 - Aluminum Sulfate (alum) Room
 - Chlorine Room
 - Ammonia Room
 - High service pumps
 - Ground storage tanks
 - Elevated storage tanks
- Evaluation of RRA, ERP, and Cybersecurity, and other system records

Photos taken during the inspection are located in Appendix 2.

FACILITY DESCRIPTION

The City of Monroe Public Water System (PWS) is a community water system located in Tallulah, Madison Parish, Louisiana. The City PWS has 19,000 service connections and serves a population of 57,000 customers, according to Louisiana Department of Health Drinking Water Viewer database. The water system is a surface water system with water supply coming from Bayou Desiard and the Ouachita River. The plant consists of conventional treatment including aerators, flocculators, sedimentation, filters, chlorination, ammonia feed, alum feed, pumps, and storage tanks.

There are eight operators at the plant. The plant operates on 12-hours shifts from 6 am to 6 pm, with two operators per shift. The supervisor is also at the plant during normal business hours.

LDH conducted sanitary surveys of the system in 2021 and 2023 and identified a few deficiencies, which were resolved after the surveys.

Section II – INSPECTION ACTIVITY SUMMARY

The EPA Inspection Team conducted field activities and interviews to observe the PWS operations and understand the WTP process and condition of the system assets. The LDH sanitary survey reports were provided prior to the inspection to help the inspection team gain a general understanding of the PWS and its compliance. The information in this report is based on document reviews, conversations with the system representatives and LDH, and observations made during the inspection. The documents provided for review by the PWS before and during the inspection included:

- Cross Connection Control Program
- Customer Complaints Log
- Tank Inspection Reports
- Tank Cleaning Schedule for all tanks within the next five years
- Water Letter Grade
- Asset Management Plan and Inventory
- Work Order Program
- Safety Data Sheets for chemicals
- Risk and Resilience Assessment
- Emergency Response Plan

Previous Sanitary Surveys

The EPA Inspection Team reviewed the most recent sanitary survey conducted by LDH, which took place on November 14, 2023. This survey identified three significant deficiencies. The deficiencies from 2023 sanitary survey are listed in Table 1 below.

Table 1

Date First Observed	Significant Deficiency	Summary of Current Status
11.14.2023	The water system did not provide documentation of a complete list of customers required to install backflow prevention devices and a record of annual testing for each device.	The cross-connection control program with the backflow prevention test letters was observed.
11.14.2023	At the Ruffin Drive booster station, a moderate amount of erosion had occurred on the southeast section of the site underneath the fencing, compromising the functionality of the fencing.	The fencing concerns were discussed during the inspection with LDH, as the system representatives plan to address the deficiency.
11.14.2023	At the Thomas Street booster station, one of the pumps had a small leak from the pump packing.	The leak was not observed at the time of the inspection.

FACILITY/SYSTEM WALKTHROUGH

Monroe Water Treatment Plant

The walkthrough of the WTP began at the filters. There were six filters, all of which were operational. Four of the filters were old and had been rehabbed within the last six years. The rehab of the filters included the addition of new media (anthracite and sand) and air scour. Core sampling is done to inspect filter media, and the filters are cleaned every few years. Two filters were new. The system representatives noted that the raw turbidity from the source water was 1.5 NTU, increasing to 3 NTU during heavy rain. The highest turbidity observed was 5 NTU. It was mentioned that the Bayou was the main raw water supply, while the river was only used during drought season when the Bayou levels were low. The filters operated on automatic backwashing, dictated by the run time (every 72 hours) and turbidity. The backwash process was visually monitored by an operator; therefore 80% of the process is automated. The operator hoses down the filters to remove the algae. The backwash water goes to the sewer and out to the river.

Next, the aerators were observed. There were nine aerators, all in operation. The purpose of the aerators was to remove organic gas for taste and odor control. Chloramine, aluminum sulfate, potassium permanganate, and activated carbon are all fed at the aerators. Additionally, bands were added to the aerators to reduce splashing. The system representatives mentioned that there was a golf course next to the WTP which required screens (**Photo 1**) to be put up to prevent golf balls from impacting the equipment.

Following the aerators, the potassium permanganate room was observed. There were four chemical feed pumps: three were used for the mixing channel, and one was a spare. An eyewash station was observed. The bulk caustic tanks were observed outside in secondary containment.

Next, the alum room was observed. There were three aluminum sulfate fiberglass tanks. The dosage of the alum is dictated by the flow and is approximately 10-11 ppm. There were three chemical pumps pumping to the static mixers and one backup pump. A zinc orthophosphate tank, which is also used for corrosion control, was observed. There are two chemical pumps that pump to the high service pumps at the end of the process for zinc orthophosphate addition.

The ammonia room was observed with five ammoniator machines. They were labeled with the injection sites going to high service pumps and train. An eyewash station was also observed.

Next, the chlorine room was observed. There were 24 one-ton chlorine gas cylinder tanks. Chlorine analyzers and vents were observed. According to the system representatives, deliveries of the chlorine gas are made approximately every 2-3 months. Outside, a bulk activated carbon tank, and two ammonia tanks were observed.

Next, the walking beam flocculators were observed, following the sedimentation basin. For the sludge, there is an underwater rake system. The sludge from the basin goes to the river through a permitted outfall. There was discussion of a possible sludge treatment system with a sludge lagoon in the future. The system representatives stated that there is a preventative maintenance (PM) program. The basins are taken offline every three months for washing and clearing, with one basin cleaned at a time.

Following the sedimentation basin, the lab was observed. There are four lab staff: two work in-house, one is on rotation, and one conducts field sampling. Grab samples are taken from each process every hour including measurements for chlorine, alkalinity, pH, odor, hardness, color, iron, and manganese. All of the equipment is calibrated. The raw turbidity was observed to be 1.49 NTU on the turbidimeter. The system representative mentioned that the target chlorine residual in the distribution system was 2-2.3 ppm in the summer and 1.5-2.3 ppm in the winter. The pH target was 8-8.5. Jar testing was conducted for making changes in coagulation and optimizing the process. The engineer came in to perform changes in injection points, re-rating of the current plant, and conducted a tracer study.

Next, the four high service pumps were observed. Two pumps are used at a time. The pump with the highest rating pumps about 12 MGD. The largest pump is usually utilized during a high usage event such as a fire.

There were two ground storage tanks onsite at the WTP. The 3.1 MG tank was inspected in 2023, and the 3.3 MG tank was inspected in 2024. The tanks are connected and operate in parallel. They are used for contact time and are baffled. The tanks combine to one overflow which is flapped. Chlorine is injected in the 30-inch transfer line.

System representative stated that the valve exercising program started a month prior to the inspection and was in progress. Every valve in the city was mapped and is included in the city's Geological Information System (GIS), including the hydrants.

The assets observed below were all located offsite.

Chauvin Tank Pump Station

The Chauvin Tank has a capacity of one MG and was built in 2018 for expansion. The overflow of the tank was observed to have a flap that flows out to the bayou. The tank was inspected in 2023. The total chlorine reading was observed to be 1.85 mg/L on the chlorine analyzer in the pump station. The station has its own generator.

Ruffin Tank Booster Station

At the Ruffin tank booster station, two pumps were observed. There was boosting of chlorine and ammonia at the station. The reading in the chlorine analyzer was 2.36 ppm. The turbidity reading was 0.223 NTU, and the pH was 7.21. Chlorine alarms, detectors, crash bar door, and vent fan were observed. The pump station has its own generator.

The Chauvin tank has a capacity of 3.1 MG. Vegetation was observed next to the fencing, with a tree above the fencing. The system representative discussed that the tank was inspected in 2022, during which thin areas observed on the tank. About 2-3 inches of sediment was removed at the time of the tank inspection. The tank is scheduled to be rehabilitated.

Thomas Tank Booster Station

The Thomas tank is a 1.5 MG tank that was built in 1950. The overflow was screened and discharged into the storm drain. According to the system representatives, the tank was last inspected three years ago. It was observed that the pH at the station was 7.86, the turbidity was 0.151 NTU, and the chlorine residual was 2.18 ppm. A room containing liquid aluminum sulfate was observed, as well as a chlorine room with a chlorine detector, ventilation, chained cylinder gas tanks, and an entry door with a knob.

Selman Pump Station

Next, the Selman pump station was observed with three pumps. The pH was observed to be 6.99, the turbidity was 0.219 NTU, and the chlorine residual was 1.85 ppm on the chlorine analyzer. According to the system representatives, the pH was lower at this station due to adjustments to the chlorine feed. In the chlorine room, it was observed that cylinder gas tanks were chained, the chlorine detector was visible.

Next, the Selman tank was observed, which is a 4 MG concrete tank. The overflow was flapped and screened.

Powell Elevated Storage Tank

The Powell tank was observed. It was 135 feet tall, with a capacity of 500,000 gallons, and was built in 1953. It was observed that the turbidity was 0.121 NTU, the pH was 8.35, and the chlorine residual was 1.85 ppm.

Grammont Tower

Next, the Grammont tower was observed. Its capacity is 500,000 gallons, and its height is 115 feet. The overflow was flapped and screened. The chlorine residual was observed to be 1.87 ppm, the pH was 8.51, and the turbidity was 0.107 NTU.

Bayou Intake

Next, we observed the bayou intake, which had three pumps. Pump 1 had a capacity of 7 MGD, Pump 2 had a capacity of 12 MGD, and Pump 3 had a capacity of 7 MGD. System representatives mentioned that raw water testing was completed everyday, including measurements for turbidity, alkalinity, and pH. It was also discussed that there were bar screens at the intake. If leaves get stuck on the screen, the pumps are shut down to remove the debris. The indicator for debris being stuck on the screen is that the pumps usually struggle to work. The intake was at a depth of 65 feet, and there were cameras installed.

RRA and ERP Document Review

The EPA Inspection Team reviewed the System's Section 1433 RRA and ERP ,as well as the system's cybersecurity practices.

Section III – OBSERVATIONS/AREAS OF CONCERN

I observed the following areas of concern and/or the following information was provided, stated on May 7, 2025.

AWWA Manual: M27 External Corrosion Control for Infrastructure Sustainability, Chapter 1 states, "The health of water consumers may be threatened whenever extensive corrosion breaches the sanitary integrity of the water system. The ever-present danger of backflow of contaminated liquid into the drinking water system is further increased when water pressure is interrupted to facilitate repairs on corroded wells, pumps, treatment equipment, pipes, valves, and services."

Observation 1. There was visible corrosion on the aerators. (Appendix 2, Photo No. 3).

Observation 2. There was debris visible on plate settlers. (Appendix 2, Photo No. 19).

Observation 3. Pump 3 was leaking at the Bayou intake (Appendix 2, Photo No. 51).

The following observations pertain to the SDWA Section 1433(a), Risk and Resilience Assessment:

SDWA Section 1433(a), 42 U.S.C. 300i-2, Community Water System Risk and Resilience requires a CWS serving more than 3,300 persons to conduct an RRA of its system, including an assessment of:

- a. the risk to the system from malevolent acts and natural hazards;
- b. the resilience of the pipes and constructed conveyances, physical barriers, source water, water collection and intake, pretreatment, treatment, storage and distribution facilities, electronic, computer, or other automated systems (including the security of such systems) which are utilized by the system;

- c. the monitoring practices of the system;
- d. the financial infrastructure of the system;
- e. the use, storage, or handling of various chemicals by the system; and
- f. the operation and maintenance of the system.

Observation 4. On May 6, 2025, the EPA inspection team completed an inspection of Respondent's System under SDWA Section 1445, 42 U.S.C. §300j-4. The EPA inspection team requested to review Respondent's RRA and observed the following:

- a. Document was available at the time of the inspection.
- b. The RRA was dated to show that it was completed before the date of the certification of completion.
- c. The RRA assessed all required elements of Section 1433(a).
- d. The RRA included a complete assessment of the required elements.

The following observations pertain to the SDWA Section 1433(b), Emergency Response Plan:

SDWA Section 1433(b), 42 U.S.C. 300i-2, Community Water System Risk and Resilience requires a CWS serving more than 3,300 persons to conduct an ERP of its system, including an assessment of:

- a. strategies and resources to improve the resilience of the system, including the physical security and cybersecurity of the system;
- b. plans and procedures that can be implemented, and identification of equipment that can be utilized, in the event of a malevolent act or natural hazard that threatens the ability of the CWS to deliver safe drinking water;
- c. actions, procedures, and equipment which can obviate or significantly lessen the impact of a malevolent act or natural hazard on the public health and the safety and supply of drinking water provided to communities and individuals, including the development of alternative source water options, relocation of water intakes, and construction of flood protection barriers; and
- d. strategies that can be used to aid in the detection of malevolent acts or natural hazards that threaten the security or resilience of the system.

Observation 5. During the inspection, EPA inspectors also reviewed Respondent's ERP and observed the following:

- a. Document was available at the time of the inspection.
- b. The ERP was dated to show that it was completed before the date of the certification of completion.
- c. The ERP completed all required elements of Section 1433(b).
- d. The RRA did not include a complete assessment of the required elements.

The cybersecurity portion of the inspection was discussed with the system representatives where the list of cybersecurity questions for community water systems was provided to the water system prior to the inspection.

Section IV – CLOSING CONFERENCE

On May 7, 2025, the EPA inspection team conducted a closing conference at the Monroe WTP at approximately 5:00 PM. During the conference, the inspection team reviewed observations and areas of concern with the system representatives.

Section V – FOLLOW UP

No additional background information about the public water system was received after exiting the facility on May 7, 2025.

Section V – LIST OF APPENDICES

Appendix 1 – Sign-in sheet

Appendix 2 – Photograph Log

Appendix 3 – List of EPA Resources

Appendix 1

Inspection sign-in sheet

System Name: Monroe Water System
PWSID: LA1073031
Date: May 7, 2025

Contact List

Name	Title	Representing	Phone	Email
Fatima Shaikh	Inspector	EPA R6	(214) 665-7188	Shaikh.fatima@epa.gov
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DEWAYNE McKinney	Analyst	DIRENZIC	(318) 599-9871	DEWAYNE@direnzi.com
Derek Debs	Engineer Intern	LDT	318-465-8895	derek.debs@la.gov
Tyler Lollis	Regional Engineer	LDT	318-361-7012	Tyler.Lollis@la.gov
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Kenneth George	Network Admin	City of Monroe	318-329-2505	ben.george@ci.monroe.la.us
Jeshir Brice	IT Director	City of Monroe	318-329-2305	jeshir.brice@ci.monroe.la.us
Tamala Bailey	Compliance Specialist	City of Monroe	318-329-2398	tamala.bailey@ci.monroe.la.us
Breanna Featherston	District Engineer	LDT	318-676-7471	Breanna.featherston@la.gov

Appendix 2

Photograph Log

Unless otherwise indicated herein, all photographs were taken by Heidi Rausch and Fatima Shaikh of EPA during the inspection. The displayed date and time are the local time (CST). Photographs were not manipulated beyond minor cropping for sizing and adding labels or callouts to draw attention to the subject of the photograph.

Not all photographs taken during the inspection are included in the Photograph Log.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 1

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Water Treatment Plant Process View of sedimentation and flocculation basins.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 2

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Filter View of filter.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 3

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Aerators View of aerators.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 4

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Potassium Permanganate Room View of Potassium Permanganate room.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 5

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Chemical Feed Pumps View of chemical feed pumps for potassium permanganate.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 6

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Bulk Tanks View of bulk tanks for caustic in secondary containment.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 7

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Alum Room View of Aluminum Sulfate and Zinc Orthophosphate tanks.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 8

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



View of pumps View of chemical feed pumps for Aluminum Sulfate.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 9

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Chemical Feed Pumps View of chemical feed pumps for Aluminum Sulfate.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 10

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Ammoniators View of ammoniators and eyewash station.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 11

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Chlorine Storage View of Chlorine gas tanks storage.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 12

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 13

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Chlorine Analyzers View of chlorine analyzers.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 14

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Activated Carbon Tank View of activated carbon tank.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 15

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Ammonia Tanks View of ammonia tanks.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 16

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Static Mixer View of static mixers.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 17

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Static mixers View of static mixers.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 18

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Sedimentation Basin View of sedimentation basin.

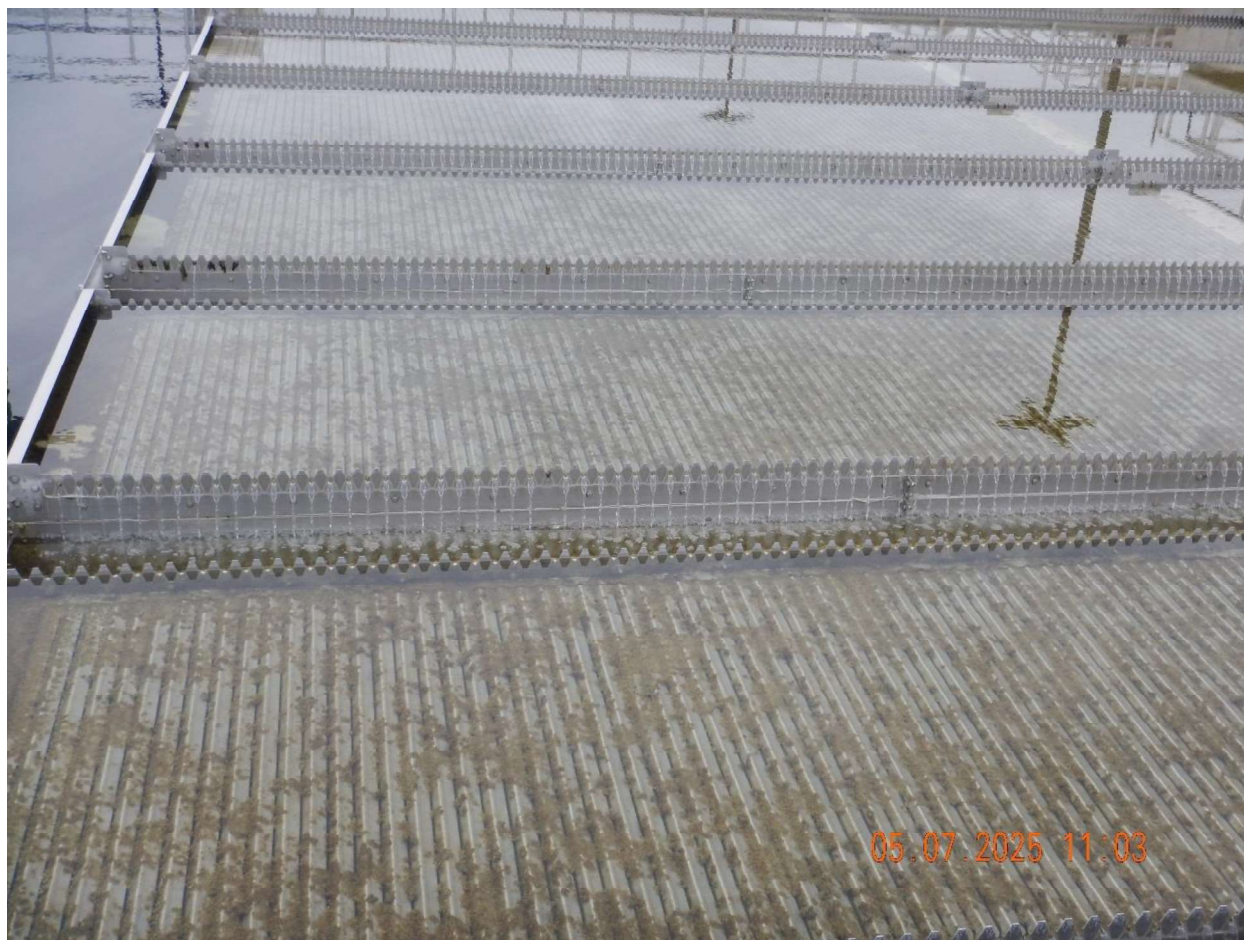


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 19

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Settlers View of plate settlers.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 20

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Filters View of filters.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 21

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Settlers View of plate settlers.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 22

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Flocculator View of walking beam flocculator.

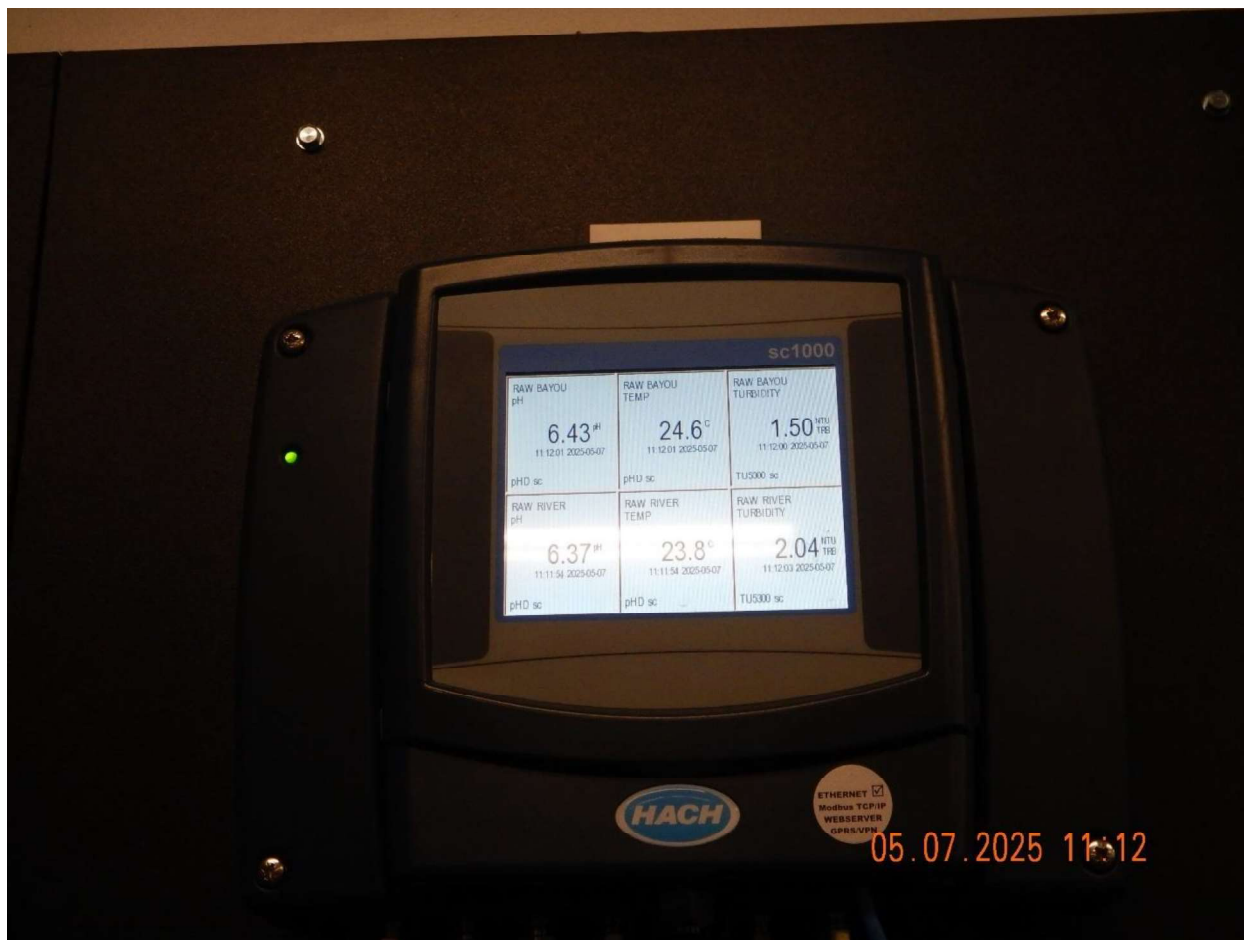


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 23

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Hach meter in lab View of raw bayou and river readings for pH, temperature, and turbidity.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 24

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Pumps View of high service pumps.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 25

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Ground Storage Tank #1 View of ground storage tank at WTP.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 26

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Ground Storage Tank #2 View of ground storage tank at WTP.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 27

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Overflow View of overflow at GST #2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 28

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Ground Storage Tank #2 View of ground storage tank #2.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 29

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Chauvin Booster Station Total Chlorine residual reading and flow rate at Chauvin booster station.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 30

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Chauvin Booster Station pH, temperature, turbidity, and flow rate readings at the Chauvin booster station.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 31

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Chauvin Tank Chauvin tank overflow pipe.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 32

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Overflow View of Chauvin tank overflow pipe with flap closed.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 33

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Chauvin Tank View of Chauvin Tank.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 34

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Ruffin Tank View of Ruffin Tank



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 35

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Ruffin Tank Booster Station View of Ruffin Tank booster station.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 36

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Overflow Pipe View of Ruffin overflow pipe with gap screened.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 37

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Thomas Tank View of Thomas Tank.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 38

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Thomas Tank View of overflow pipe at Thomas Tank.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 39

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Overflow View of screened overflow pipe at Thomas Tank.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 40

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Thomas Booster Station View of aluminum sulfate tank at Thomas booster station.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 41

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Thomas Booster Station View of pumps at booster station.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Photograph Log

Photo No. 42

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Thomas Booster Station View of gas chlorine tanks at Thomas booster station.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 43

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Selman Tank View of Selman tank.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 44

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Overflow View of overflow pipe at Selman tank.

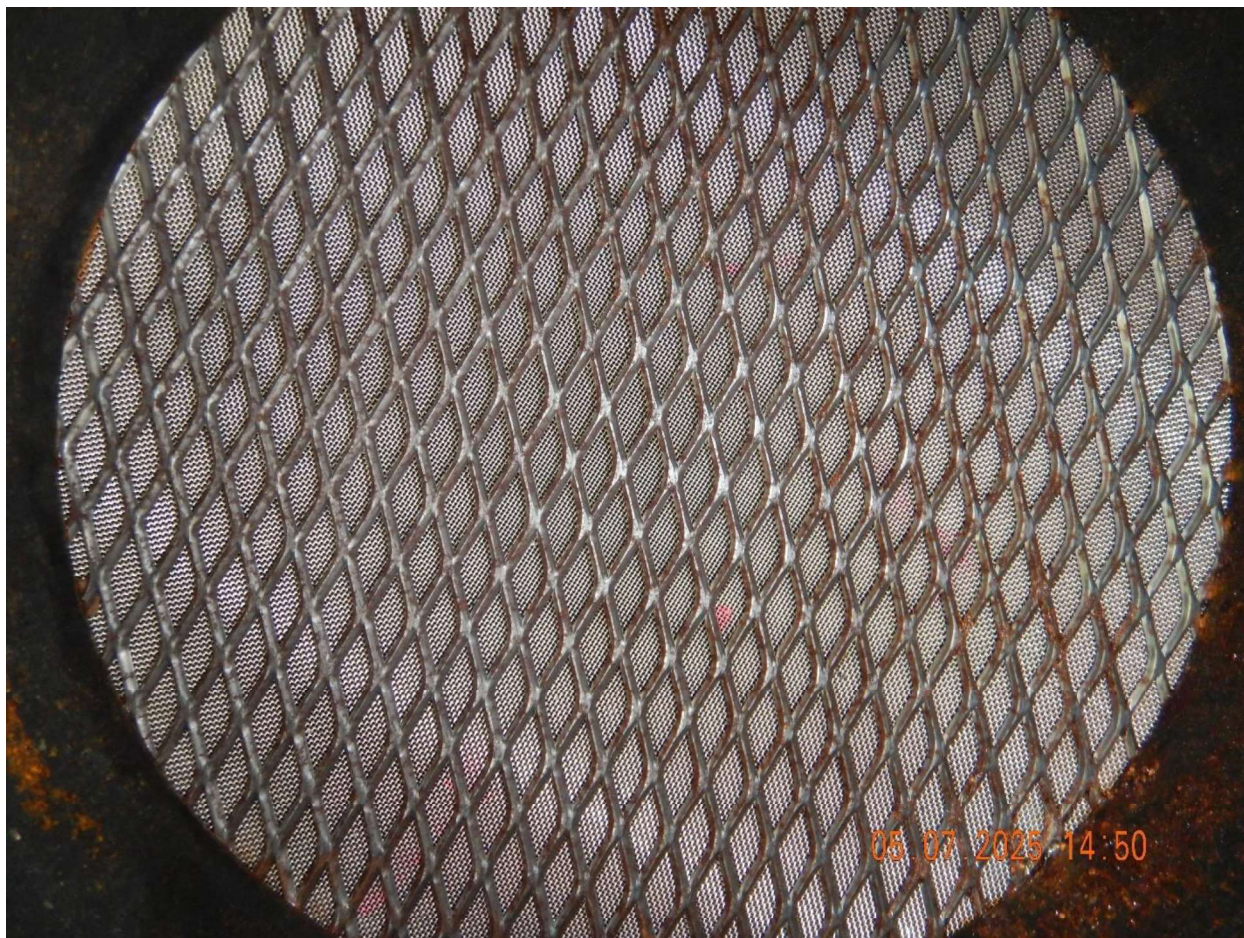


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 45

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Overflow View of screened overflow at Selman pump station.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 46

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Powell Elevated Storage Tank View of Powell elevated storage tank.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 47

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Grammont Tower View of Grammont tower.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 48

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Overflow View of screened overflow at Grammont tower.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 49

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Bayou Intake View of bayou intake station.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 50

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Pumps View of pumps at Bayou intake.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 51

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Pump 3 View of leak at pump 3.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 52

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Bayou Intake View of water at intake location.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Photograph Log

Photo No. 53

Location: Monroe Public Water System		
City: Monroe	County/Parish: Ouachita	State: LA



Bayou Intake View of water level at intake.

Appendix 3

List of EPA resources

The following factsheets were shared with the system during the inspection:

- EPA AWIA Community Water System ERP Template and Instructions
- EPA AWIA Risk and Resilience Assessment Guidance
- EPA RRA and ERP Factsheet
- EPA Incident Action Checklist Cybersecurity
- EPA Cyber Incident Reporting Process
- Top Cyber Actions for Securing Water Systems
- Free Cyber Vulnerability Scanning for Water Utilities