www.dnr.mo.gov

November 4, 2014

NOTICE OF VIOLATION NUMBER 15747SW CERTIFIED MAIL NUMBER 7014 1820 0001 6466 0817 RETURN RECEIPT REQUESTED

Mr. Gary V. Cover Osage Water Company P.O. Box 506 Clinton, MO 64735

RE: NPDES PERMIT NUMBER MO0123170

Dear Mr. Cover:

This letter is in response to sample results taken during the June 10, 2014 compliance inspection conducted by the Department of Natural Resources (department). Please find enclosed a Report of Laboratory Analysis for samples collected during the site visit. Notice of Violation number 15747SW is enclosed for effluent limit violations. The table below explains the violations that occurred:

SITE VISIT DATE	PARAMETER	OUTFALL	PERMIT LIMIT	REPORTED VALUE
6/10/2014	E. coli	001	126 colonies/100mL monthly avg. 630 colonies/100 mL daily max.	>2419.6

Exceeding this limitation is a violation of the Missouri Department of Natural Resources Regulation 10 CSR 20-7.015 "Effluent Regulations" and NPDES permit conditions. This Notice of Violation is for a major exceedance of one of the parameters identified above and shall serve as official notification of this noncompliance.

Since the inspection, the operator has sent in additional sample results that are within the permitted parameters. The sludge report for 2013 has also been received by the department.

Based on your response, the department wishes to acknowledge your return to compliance for violations cited in the abovementioned Notice of Violation and the previously sent Letter of Warning.



Osage Water Company, KK WWTF November 4, 2014 Page 2

Please note that this letter does not relieve you from liability for violations noted during the department's original inspection, nor does it relieve you from liability as a result of any future non-compliance.

Please be reminded that you are required to maintain compliance with your Missouri State Operating Permit and all applicable statutes and regulations. If you have any questions or if we can be of assistance to you in your efforts to achieve compliance, please contact Ms. Laura M. Gerson, of my staff, by calling 573-348-4028 or via mail at Southwest Regional Office, 2040 West Woodland, Springfield, Missouri 65807-5912.

As always, the department seeks to achieve the highest level of environmental protection, to the ultimate benefit of this state and its citizens. We appreciate your attention to our environmental concerns and your return to compliance.

Sincerely,

SOUTHWEST REGIONAL OFFICE

CD/lgk

Regional Director

Enclosure – Sample Results

c: Mr. Jim Heppler, Lake of the Ozarks Water and Sewer Public Service Commission

 $029. wpcp. Osage Water CoKK. mo 0123170. x. 2014. 11.04. fy 15. nov_rtc. 15747 SW. lmg$

Celebrating 40 years of taking care of Missouri's natural resources.

To learn more about the Missouri Department of Natural Resources visit dnr.mo.gov



MISSOURI DEPARTMENT OF NATURAL RESOURCES

NOTICE OF VIOLATION

VIOLATION	NUMBER

			15747SW
DATE AND TIME ISSUED 11/04/2014		<u> </u>	
OURCE (NAME, ADDRESS, PERMIT NUMBER, LOCATION)			
Osage Water Company, KK WWT	F		
P.O. Box 506			
MO0123170			
AAILING ADDRESS	CITY	STATE	ZIP CODE
P.O. Box 506	Clinton	МО	64735
IAME OF OWNER OR MANAGER Gary Cover	TITLE OF OWNER OR MANAGER Receiver	₹	engangan permenalakan kemendan permenalah kemendah kemendah berana dan berana berana berana berana berana bera Permenana
AW, REGULATION OR PERMIT VIOLATED Missouri State Operating Permit Missouri Clean Water Law Section		.SMo.	
THIS COLL CLOSE THE EATH ACCOUNT	· · · · · · · · · · · · · · · · · · ·		
NATURE OF VIOLATION	DATE(S):	A.H. C.J. 3.K.	TIME(S):
Permittee failed to comply with 6			iri State Operating
Permit number MO0134244 by e	exceeding the limits set forth for e	c. com.	
SIGNATURE (PERSON RECEIVING NOTICE)	SIGNATURE (PERS	ON ISSUING NOTICE)	
Sent Via US Mail	Laura Ge	rson	Lama Gerson
TITLE OR POSITION	TITLE OR POSITION	N nental Specialist/	ZWPO

Schedule JC-S4



Order ID

Missouri Department of Natural Resources

Environmental Services Program

06/24/2014

140610007

Report Date:

Program, Contact: WPC

LDPR/JobCode:

FEINS

Brittnie Brauner

RECEIVED

DEQ/SWRO JUN 252014

Collect Date:

6/10/2014 1:25:00PM

Customer #: 1410252 AC28830 Collector: LAURA GERSON County: Facility ID: MO0123170 Camden Site: Osage Water Comp. KK WWTF Sample Reference ID: Affiliation: SWRO

Sample

Entry Point:

Sample Comment:

Grab; outfall 001

Precision

U 1.vi-Easting 0524891E	Northing 4221573N	Precision	,			
Test		Parameter	Result	Qualifier	Units	Method
Biochemical Oxygen Demand	mand	Biochemical Oxygen Demand	20.5		mg/L	SM 5210-B
DIOCHEIIIIcai Oxygen De		II ASI: IDEKY	>2419.6		mpn/100ml	SM 9223B
E. COII - IUEXX		[DOC /1	SM 4500-0-G
Field Dissolved Oxygen		Field Dissolved Oxygen	3.02		IIIQ/L	OM #200
		Field pH	6.99		pH Units	EPA 150.1
Field Tomporation		Field Temperature	21.6 C			EPA 170.1
rield lelliberature			0.05		ma/l	Field Dependent
Total Residual Chlorine		Total Residual Chlorine	0.00		: i	
Total Suspended Solids (TSS) / NER	(TSS) / NER	Total Suspended Solids (TSS) / NFR	6.00		mg/L	SM 2540-D
Total Orabellaca collect	(100)	A MARINE DE COMPTE DE COMP				

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency.

Qualifier Descriptions

- 01 Improper collection method
- 05 Estimated value, detected below PQI 03 Exceeded holding time
- 07 Estimated value, analyte outside calibration range
- 09 Sample was diluted during analysis
- 11 Estimated value, matrix interference
- 15 No Result Failed Quality Controls Requirements 13 Estimated value, true result is >= reported value
- 17 Results in dry weight
- 19 Estimated value
- 21 No result spectral interference
- 23 Contract Lab specific qualifier see sample comments25 No Result: Excessive Chlorination

Division of Environmental Quality

Chris Boldt, Laboratory Manager **Environmental Services Program**

Curmie for Chris Boldt

ND Not detected at reported value

12 Insufficient quantity 10 Laboratory error

08 Analyte present in blank at > 1/2 reported value

06 Estimated value, QC data outside limits

02 Improper preservation
04 Analyzed by Contract Laboratory

- 14 Estimated value, non-homogeneous sample
- 16 Not analyzed related analyte not detected
- 18 Sample pH is outside the acceptable range20 Not analyzed Instrument failure
- 22 pH was performed at the Laboratory
- 24 No result matrix interference 26 No Result: Excessive Dechlor
- No Result: Excessive Dechlorination

oag. wpcp. Base Water CompKKWWTF. MO 0123170.x.2014.06.25, &y14. Sam. x. Rud

Page 1 of 2

Facility Name: Osage Water Company, KK	Permit Number: MO-0	0123170
Inspection Date: June 10, 2014	MoCWIS number: 239	93
Report Date: November 4, 2014	Concern Number: ACE Number:	
Inspector Name: Laura M. Gerson	County: Camden	
<u>Unsatisfactory Features</u>	Response Due: Septer	mber 8, 2014
1. Missing sludge report		
2.		
3.		
4.		
5.		
6.		
Response Received:		
Facility's Response		
1. Received sludge report	Satisfactory	Unsatisfactory
2.		
3.		
4.		
5.		
6.		
		
RTC Admin Closed Referred to	o Jake Referred to Enforce	ement Date
Date Referred to Jake:		
Comments:		
MoCWIS updated	YES NO N/.	A
Original copy of the facility's response attached		
Initialed/Highlighted concern form attached		
Electronic copy of this form on Tina's N drive		1
RTC letter drafted Geohydrolic Evaluation Form/Lagoon checklist	if applicable	<u> </u>

DEPARTMENT OF NATURAL RESOURCES

dnr.mo.gov

July 31, 2014

Mr. Gary Cover Osage Water Company P.O. Box 506 Clinton, MO 64735

Dear Mr. Cover:

Enclosed is the Report of Inspection for the community water system serving Eagle Woods Subdivision in Camden County. This report is believed to be self-explanatory and I trust you will direct your attention to the recommendations contained therein.

As an existing water system that is being signed up as a public water system, the integrity of the system and quality of water served is unknown and cannot be addressed by this initial inspection. As routine monitoring of this water system occurs, this information will be determined.

A Compliance Agreement will be mailed to Ms. Denise Jordan (well owner) in the near future to address the water system's well, which is not compliant with current state and federal regulations. The department has adopted a "Subdivision Policy" that provides water systems such as yours an opportunity to comply with Safe Drinking Water requirements. If you take advantage of this opportunity, the department will allow continued use of this non-compliant well. If you decide not to take advantage of this opportunity the department will require you to either construct a new well to state standards or connect to a department-approved water system. The department may also initiate legal action, including appropriate penalties if necessary, to obtain compliance with these requirements.

Unless otherwise requested within the report, all correspondence and questions should be directed to Mr. Darrell Barber of this office by calling 573-348-0875 or via mail at the Southwest Regional Office, 2040 West Woodland, Springfield, MO 65807-5912.

Sincerely,

SOUTHWEST REGIONAL OFFICE

Mark Rader, Chief Drinking Water Section

MDR/dbl

Enclosures

c: Mr. Jim Busch, Missouri Public Service Commission

Mr. Clinton Finn, Southwest Regional Office

Ms. Denise Jordan, Well Owner

Ms. Misty Lange, Public Drinking Water Branch

Mr. Chad Stout, Lake of the Ozarks Water and Sewer

MISSOURI DEPARTMENT OF NATURAL RESOURCES REPORT OF INSPECTION COMMUNITY PUBLIC WATER SYSTEM EAGLE WOODS SUBDIVISION CAMDEN COUNTY, MISSOURI PUBLIC WATER SYSTEM ID NUMBER MO5030015

July 31, 2014

INTRODUCTION

A routine inspection was made of the community public water system serving Eagle Woods Subdivision by Mr. Darrell Barber of the Missouri Department of Natural Resources (department) Southwest Regional Office on June 11. Mr. Chad Stout and Mr. Jacob Cook, Operators, were present representing the facility during the inspection. The purpose of the inspection was to determine compliance with Missouri Safe Drinking Water Law and Regulations and to activate the system as a public water supply.

DISCUSSION

The system serves approximately 85 people in the Eagle Woods Subdivision through 34 residential connections. The system operates year round.

Well #1 is a multi-family well drilled in 1998 to a depth of 400 feet with 6-inch PVC casing to a depth of 100 feet. The well is equipped with a submersible pump. The water is disinfected with a liquid sodium hypochlorite solution. Storage is provided by two 4,500-gallon ground storage tanks. System pressure is maintained by two 5-horsepower booster pumps rated at 60 gallons per minute and three 119-gallon bladder tanks. The ground storage tanks are also equipped with a small recirculating pump located in the well house to prevent freezing or stagnation of the water in the ground storage tanks.

Eagle Woods Subdivision was developed by Mr. Ron Westenhaver of Summit Investments, LLC. Mr. Westenhaver constructed the distribution system, Well #1, and a second multi-family well, which is no longer used by the subdivision. In 2002, Eagle Woods discontinued using the two multi-family wells and contracted with Environmental Utilities, LLC to provide wholesale water service to Eagle Woods via the adjacent Golden Glade water system owned by Environmental Utilities. The two multi-family wells previously serving Eagle Woods were turned over to the two parcel owners where the wells are located. Wastewater treatment for Eagle Woods and Golden Glade subdivisions is provided by a single wastewater treatment facility owned by Osage Water Company. Mr. Greg Williams is a principle in Osage Water Company and Environmental Utilities, LLC. In August 2007, after the Missouri Public Service Commission (PSC) initiated a receivership case against Osage Water Company, Environmental Utilities discontinued providing water to Eagle Woods.

Mr. Gary Cover is the PSC-appointed receiver in charge of managing the assets of Osage Water Company. On August 22, 2007, Mr. Cover filed a petition in Camden County Circuit Court on behalf of Osage Water Company seeking a temporary restraining order against Environmental Utilities. The September 14, 2007, court docket entry states the parties reached an agreement for Environmental Utilities to continue supplying water to Eagle Woods until February 2008. Osage Water Company submitted an application for a construction permit on December 31, 2007, to add two 4,500-gallon ground storage tanks, two booster pumps and chlorination to one of the multi-family wells previously used by Eagle Woods. The application stated the modifications were temporary until funds could be raised to drill a new state-approved well. An approval to construct (Review No. 54366-07) was issued by the department on February 1, 2008. The temporary modifications approved by Review No. 54366-07 were still in use on June 11. It appears the department was not notified once modifications were constructed so a final construction inspection could be conducted. Please submit a Statement of Work Complete form to Mr. Clinton Finn at the Southwest Regional Office so a final construction inspection can be scheduled.

The multi-family well supplying water for Eagle Woods (Well #1) is owned by Ms. Denise Jordan. Osage Water Company pays a monthly lease to Ms. Jordan for the use of Well #1 and the land needed for the well house and storage tanks.

The system requires a DS-II operator's license. Mr. Chad Stout possesses the adequate DS-II operator's license needed.

Two drinking water samples were collected from the outside hose bib at 6425 Eagle Crossing and submitted for microbiological analysis. The samples tested Total Coliform positive or "not safe". The free chlorine entering the distribution system was below detection limits and the total residual chlorine level in the system was 0.12 mg/L at the time of the inspection. The operator had checked the chlorine residuals on June 10, all parameters were within acceptable ranges, and the equipment appeared to be functioning properly. However, upon our arrival on June 11, the chlorinator was no longer injecting chlorine into the system. The operator determined a check valve in the injector quill assembly was stuck and not allowing the chlorine solution to be injected into the water system. The operator repaired the faulty valve during the inspection.

The following unsatisfactory features were noted with comments and recommendations for correction, and are organized into categories as noted below.

UNSATISFACTORY FEATURES

The Ground Water Rule specifies eight elements integral to an effective inspection of a public water system. The eight elements are: Source (protection, physical components, and condition);

Treatment; Distribution System; Finished Water Storage; Pumps, Pump Facilities, and Control; Monitoring, Reporting, and Data Verification; Water System Management and Operations; and Operator Compliance with State Requirements. Your public water system was evaluated for compliance with these eight elements and the following list of deficiencies comprises the findings of this inspection.

Significant Deficiencies

Significant Deficiencies cause, or have the potential to cause, the introduction of contaminants into water delivered to customers.

1. No Significant Deficiencies were cited as a result of this inspection.

Violations of Missouri Safe Drinking Water Regulations

These violations can result in enforcement action if repeated or not corrected. Some violations are more serious than others, and this is explained in the comments.

2. The well is not equipped with a sample tap located prior to treatment for source water sampling as required by Safe Drinking Water Regulation 10 CSR 60-4.025(3)(E).

A sample tap is needed to collect samples directly from the well prior to treatment so that distribution and source problems can be distinguished from each other. Locating the sample tap at a point where positive pressure is maintained makes it possible to collect samples without starting the pump each time. Samples collected before treatment reveals the condition of the raw source water.

Install a source water sample tap, which must be located to insure that untreated well water can be collected. The best source water sample tap location has a check valve between it and the point of chlorination. If the tap is not isolated from the chlorine injection point, then only collect source water samples when the well is running.

3. The public water system dispensed water without obtaining a written permit to dispense water in violation of Safe Drinking Water Regulation 10 CSR 60-3.010.

All public water systems must obtain a permit to dispense water to the public. There is no permit fee. A public water system must submit a permit to dispense application and must meet bacterial and chemical monitoring and maximum contaminant level requirements.

Submit the completed application for a permit to dispense and all required documentation, including a deed to the well property, to: Missouri Department of Natural Resources, Public Drinking Water Branch, Infrastructure, Permits and Engineering Section, P.O. Box 176,

Jefferson City, MO 65102, Phone 573-751-5331, Fax: 573-751-3110.

4. The well was not constructed in accordance with the Design Guide, Part 3.2, as required by Safe Drinking Water Regulation 10 CSR 60-3.010(1) and was either drilled or made to serve as a community water system after the October 1, 1979, grandfather deadline. The water system is utilizing a multi-family well that was constructed in 1998. After a five year lapse in use, the multi-family well was placed back in operation in late 2007 or early 2008 and has been in continuous operation since that time.

Subdivision wells drilled after the October 1, 1979, grandfather date that do not meet Design Guide standards, and pre-October 1, 1979, wells that are not in continuous operation or not serving community water systems until after that date but before January 1, 2013, are considered non-compliant but can continue to be used to supply a community public water system if the water supplier enters into a *Compliance Agreement* with the department and routine bacteriological samples remain safe. If the maximum contaminant level is exceeded or monitoring violations occur, then according to this agreement the well must be replaced with a state-approved well meeting Design Guide standards, a state-approved treatment system must be installed, or connection to another department-approved water system must be established.

Sign and return the *Compliance Agreement*, which will be mailed in the near future, within 15 calendar days of the date it is received.

Additional Regulatory Requirements

In addition to the regulatory violations listed above, there are other specific regulatory requirements that the public water system will be expected to comply with. As a newly activated public water system, the water system had not had an opportunity to address these requirements at the time of the inspection. Failure to address the items listed below may result in the items being cited as violations during future inspections or enforcement actions being initiated.

5. The public water system must develop a written total coliform bacteria sample siting plan as required by Safe Drinking Water Regulation 10 CSR 60-4.020(1)(A).

The regulations require each system to have a written plan that outlines bacteriological sampling points. The Microbiological Sample Siting Plan enclosed with this report will guide you in completion of an approved sampling plan.

Submit a written coliform sample siting plan to this office and keep a copy in your permanent water records. If you have further questions regarding completion of a sample siting plan, contact the Southwest Regional Office for assistance.

6. The public water system must establish a cross-connection control program as outlined in Safe Drinking Water Regulation 10 CSR 60-11.010.

Public water systems shall be designed and maintained to prevent contamination from being introduced into the system from back-pressure or back-siphonage. This cross-connection control program should include a cross-connection ordinance for cities and towns, a cross-connection clause in the user agreement for private utilities, and an inspection of all potential cross-connection sources such as car washes, school laboratories, beverage bottling plants, sewage treatment plants, facilities with boilers or fire sprinkler systems, mortuaries, irrigation systems, hospitals, and industrial manufacturing plants.

Whenever an unprotected cross-connection is discovered, it must be corrected by the customer installing a department-approved air gap or backflow prevention device. Air gaps and backflow prevention devices must be tested annually by a certified tester, and results of these tests must be kept in the public water system records for a period of five years and made available to the department inspector during inspections.

Establish a cross-connection control program.

7. The public water system must establish a lead plumbing ban program as outlined in Safe Drinking Water Regulation 10 CSR 60-10.040.

Missouri Safe Drinking Water Regulations require that as of January 1, 1989, materials used in the construction, expansion, modification, or improvement of a public water system or customer water system shall be lead free. Solder and flux containing not more than 0.2% lead and pipe fittings containing not more than 8.0% lead shall be considered lead free. Each public water system should develop a lead plumbing ban program including a lead plumbing ban ordinance for cities and towns, a lead plumbing ban clause in the user agreement for private utilities, and an inspection of new plumbing to ensure compliance.

As of January 4, 2014, the definition of lead free concerning the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures has changed in the Federal Safe Drinking Water Act to allow no more than a weighted average of 0.25% lead (there has been no change to the definition of lead free concerning solder and flux). It is no longer legal to sell or install components that fail to meet the new definition of lead free. Excluded from this are components used exclusively for non-potable service and for distribution gate valves that are two inches or greater in diameter. This law also applies to plumbers, homeowners and others who may install or repair plumbing, which may require changes to local building or plumbing codes to ensure compliance. Missouri regulations do not currently include this update to Federal law; however, the department strongly encourages you to incorporate the federal changes into any lead plumbing ban established.

Included with this report is the most recent update of the Summary of The Reduction of Lead in Drinking Water Act and Frequently Asked Questions.

Establish a lead plumbing ban program.

8. The community public water system commenced operation after October 1, 1999 and therefore must establish minimum Technical, Managerial and Financial (TMF) capacity requirements as required by Safe Drinking Water Regulation 10 CSR 60-3.030.

Minimum Technical Capacity Requirements shall include: conforming to the department's Standards for Community Public Water Supplies; having a sufficient number of operators certified as required in 10 CSR 60-14 to provide proper operation and maintenance of the system; having and maintaining an updated distribution system map showing, at a minimum, the size and location of all waterlines, valves, hydrants, storage facilities, pumping facilities, and water sources

Minimum Managerial Capacity Requirements shall include: having an organization chart that shows every position that provides any drinking water function; having a designated person(s) who will receive customer environmental concerns; having a written rate structure and service fees; holding at least one public meeting prior to changing the rate structure or service fees; designating a person(s) to deal with compliance-related issues in accordance with the public drinking water regulations in 10 CSR 60.

Minimum Financial Capacity Requirements shall include: adherence to standard accounting practices; developing and implementing a system of collection of water fees that includes disconnection of service for non-payment or other measures for obtaining payment of fees; developing an annual budget showing public water system revenues and expenditures prepared at the end of each fiscal year; preparing a five-year capital improvement budget and capital improvement plan that will be updated annually; developing an operating reserve equal to or greater than one-tenth of the annual operations and maintenance budget to be used for operating and maintenance expenses only.

Demonstrate compliance with minimum TMF capacity requirements. The enclosed checklist may be used as a guide for items required to demonstrate compliance.

9. The public water system must develop and implement an emergency operation plan as required by Safe Drinking Water Regulation 10 CSR 60-12.010.

Each community public water system must develop and implement a plan for assuring, to the extent practicable, continuous water service under emergency conditions. This emergency

operation plan must include designation of a coordinator and key personnel to be on call under emergency conditions, designation of personnel authorized to expend funds under emergency conditions, a list of quarterly updated home and office telephone numbers of the coordinator, key operational personnel, state and local assistance sources, a list of alternative water systems which could be made available if the basic system were incapacitated, an inventory of emergency equipment, and written emergency procedures including those for tank truck disinfection and protection, installation of emergency chlorinators, and disinfection of trucked water.

The emergency operation plan is located at: http://www.dnr.mo.gov/env/wpp/eop/. Please complete and submit to the Southwest Regional Office, Attn: Darrell Barber. For a hard copy, please contact our office by calling 417-891-4300.

10. The public water system must develop and implement a Disinfection Byproduct Monitoring Plan as required by Safe Drinking Water Regulation 10 CSR 60-4.090(3).

As of January 1, 2004, all community and non-transient non-community public water systems using groundwater that add a chemical disinfectant to the water must develop and implement a plan to monitor for total trihalomethanes and other disinfection by-products. These contaminants are a family of chlorinated and brominated chemicals produced when chlorine reacts with organic matter in water, and which are known to increase the risk of cancer. The current standards set by the department are associated with little risk and are the levels currently considered safe.

Work to identify location(s) within the distribution system that represent the maximum residence time of the water in distribution during the month of the warmest water temperature. It is at these locations that the greatest concentration of disinfection by-products will be found. If you have questions or need assistance, contact Mr. Todd Eichholz, Missouri Department of Natural Resources, Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102, or by calling 573-751-4090.

Department Recommendations

These deficiencies are important and the public water system should give serious consideration to correction. However, these deficiencies are not normally subject to enforcement action unless the department determines that these are contributing to the failure of the public water system to provide an adequate volume of safe water to customers at sufficient pressure.

11. The public water system failed to maintain a minimum free chlorine residual of 0.5 mg/L at the well and failed to maintain a minimum total chlorine residual of 0.2 mg/L in the distribution as required by the Safe Drinking Water Regulation 10 CSR 60-4.055.

Due to a malfunction of a check valve in the chlorinator injector quill assembly, there was no

detectable chlorine residual in the water system at the well house (after detention). The total chlorine residual was 0.12 mg/L at 6425 Eagle Crossing.

The operator repaired the malfunctioning check valve during the inspection. No further action is required.

12. The well is not equipped with a means of measuring water levels.

A well should be equipped with a means of measuring the water level, which is normally a draw down tube and gauge. The tube is blown free of water with an air tank or hand pump. The gauge will read the feet of water standing over the pump. When the pump is started, the gauge reading will decline as the well water level falls and the feet of water over the pump decreases. When the gauge stabilizes, this will represent the feet of water over the pump at pumping condition. If the depth of the pump setting is known, these readings can be converted to static water level and pumping water level. These water levels tend to decline during prolonged droughts and during periods of heavy pumping by all wells in the vicinity. Decline of an adequate water level over the pump may result in pumping of accumulated oil from oil lubricated vertical turbine pump and may result in pumping of air and ultimate pump failure. It is important to have wells equipped with draw-down tubes and gauges and to periodically measure and record the static and pumping water levels. Draw-down tubes can only be installed when the pump is pulled.

The department recommends installing a draw-down tube and gauge the next time the well pump is pulled for repair or replacement.

13. Dead end mains are not equipped with flush hydrants.

All dead end mains should be eliminated by looping where practical. If these cannot be eliminated, each dead end main should be equipped with a flush hydrant to allow stale or contaminated water to be eliminated.

The department recommends installing flush hydrants at each dead end main.

14. The public water system is not maintaining an adequate map of the distribution system and records on valves and hydrants.

The public water system should maintain a map showing the location of every main along with other buried utilities (sewers, gas lines, cables, etc.) that could affect excavation for repairs. The map should show the nominal size, material of construction, class, and SDR or DR for each main. Note that Class 200 AWWA C900 PVC pipe and Class 200 ASTM D2241 PVC pipe have different dimensions so different fittings are needed for repairs so each Class 200 PVC main

must be properly identified. The map should show the location of each valve, fire hydrant, and flush hydrant and each should be identified (numbered). Each valve should have a separate sheet showing the identifications, location, type, size, manufacturer, model number, number of turns to close, direction of rotation, and space to show exercising records, repairs needed, and repairs made with dates. Each hydrant should have a separate sheet showing identification, location, type, manufacturer, model number, nozzle sizes, fire flow rating, standard color and space to show testing, and repairs needed and repairs made with dates. The map, valve records, and hydrant records should be updated after every new addition. Ideally, a master map and records should be kept in the permanent public water system records and working copies (photo reduced if needed) provided to each employee who makes repairs.

Maintain an adequate distribution system map.

15. The public water system does not have an adequate tank interior inspection and cleaning program.

The public water system should have a tank interior inspection and cleaning program with the following elements: a) Each tank interior should be inspected and cleaned every two to five years depending on silt build up; b) the type and general condition of the interior paint should be determined, especially on any paint that appears to be high in lead or chromium; c) glass-coated interiors should be inspected for cracking, corrosion and other signs of coating deterioration (spalling, cracking, leaking, etc.); d) if rusting is present, determine the approximate percent of rusted area, the extent, nature and depth of pitting, and the condition of the remaining coating (chalking, blistering, loose, blotchy, etc.); and, e) concrete structures should be inspected for signs of deterioration (spalling, cracking, leaking, etc.). All work shall be conducted in a clean and sanitary manner, and all surfaces shall be thoroughly cleaned and disinfected before a storage facility is returned to service. It is the responsibility of the public water system to either conduct or require water quality tests to demonstrate the good sanitary condition of the tank interior before it is returned to service. Follow all environmental laws and rules to dispose of chlorinated water, sludge debris and other wastes.

Develop and institute an adequate tank interior inspection and cleaning program.

16. The storage tank piping is not sufficiently valved to permit bypassing. Specifically, the bladder tanks are not equipped with isolation valves.

The storage tanks should be designed and constructed to allow tanks and reservoirs to be taken offline, drained, cleaned, repaired, and painted without causing a loss of pressure in the distribution system. This should include bypass piping and sufficient valves to the storage tank to permit continuous operation of the system even with the tanks offline.

SUBMITTED BY:

APPROVED BY:

Drinking Water Inspection Unit

Darrell Barber

Environmental Specialist



Location: Eagle Woods Subdivision Photographer: Darrell Barber Photograph Date: June 11, 2014

Comments: Well, three 119-gallon bladder tanks and related piping.



Location: Eagle Woods Subdivision Photographer: Darrell Barber Photograph Date: June 11, 2014

Comments: Booster pumps (5-hp) and related piping.



Location: Eagle Woods Subdivision Photographer: Darrell Barber Photograph Date: June 11, 2014

Comments: Well house and two 4,500-gallon ground storage tanks.



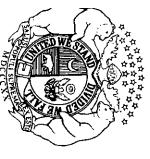
Location: Eagle Woods Subdivision Photographer: Darrell Barber Photograph Date: June 11, 2014

Comments: Chem-Tech (Series 200) chemical feed pump, 25-gallon chlorine solution tank and

related piping.

Mr. Chad Stout Lake of the Ozarks Water and Sewer 840 Thunder Mountain Road Camdenton, MO 65020

Ms. Denise Jordan 6507 Red Fox Lane Osage Beach, MO 65065



Order ID

140610007

Report Date:

06/24/2014

Missouri Department of Natural Resources **Environmental Services Program**

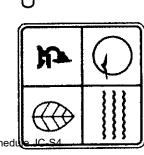
Program, Contact: WPC

Brittnie Brauner

LDPR/JobCode: FEINS

RECEIVED

JUN 252014



sample: AC28830

Customer #: 1410252

Facility ID: MO0123170 County: Camden

Collector: LAURA GERSON

Site: Osage Water Comp. KK WWTF Sample Reference ID:

DEQ/SWRO

Affiliation: SWRO

Collect Date: 6/10/2014 1:25:00PM

Entry Point:

Sample Comment: Grab; outfall 001

Precision

	1524891E	UTM-Easting
	4221573N	Northing
		Precision
D		

est	Parameter	Result	Qualifier	Units	Method
liochemical Oxygen Demand	Biochemical Oxygen Demand	20.5		mg/L	SM 5210-B
coli - IDEXX	E. coli - IDEXX	>2419.6		mpn/100ml	SM 9223B
ield Dissolved Oxygen	Field Dissolved Oxygen	3.02		mg/L	SM 4500-O-G
ield pH	Field pH	6.99		pH Units	EPA 150.1
ield Temperature	Field Temperature	21.6 C			EPA 170.1
otal Residual Chlorine	Total Residual Chlorine	0.05		mg/L	Field Dependent
otal Suspended Solids (TSS) / NFR	Total Suspended Solids (TSS) / NFR	6.00		mg/L	SM 2540-D

The analysis of this sample was performed in accordance with procedures approved or recognized by the U.S Environmental Protection Agency

Qualifier Descriptions

- 05 Estimated value, detected below PQI 03 Exceeded holding time
- 07 Estimated value, analyte outside calibration range
- 09 Sample was diluted during analysis 11 Estimated value, matrix interference

Junnice for Chris Bold +

- 13 Estimated value, true result is >= reported value
- 15 No Result Failed Quality Controls Requirements
- 17 Results in dry weight
- 19 Estimated value
- 21 No result spectral interference
- 23 Contract Lab specific qualifier see sample comments

Division of Environmental Quality **Environmental Services Program** Chris Boldt, Laboratory Manager

ND Not detected at reported value 25 No Result: Excessive Chlorination

- 02 Improper preservation 04 Analyzed by Contract Laboratory
- 06 Estimated value, QC data outside limits
 08 Analyte present in blank at > 1/2 reported value
- 10 Laboratory error

12 Insufficient quantity

- 14 Estimated value, non-homogeneous sample
- 16 Not analyzed related analyte not detected
- 18 Sample pH is outside the acceptable range
- 20 Not analyzed Instrument failure
 22 pH was performed at the Laboratory
 24 No result matrix interference
 26 No Result: Excessive Dechlorination

Page 1 of 2

dnr.mo.gov

June 21, 2016

Osage Water Company PO Box 506 Mr. Gary Cover Clinton, MO 64735

Dear Mr. Cover:

Missouri State Operating Permit (MSOP) MO0123170 was issued to Osage Water Company for the Osage Water Company-KK in Camden County. This permit sets forth specific effluent limitations, monitoring requirements, and specific permit conditions regarding the facility. Review of your Discharge Monitoring Report(s) for the **monitoring period(s) ending in January to March 2016** shows that the effluent limitations established in your MSOP have been exceeded. An exceedance of the effluent limitations established in your permit is a violation of the Missouri Clean Water Law (MCWL), Sections 644.051.1(3) and 644.076.1; Clean Water Commission Regulations 10 CSR 20-7; and your MSOP. The violations are listed on the enclosed Discharge Monitoring Report Exceedance List.

By **July 26, 2016**, please submit a written response to the address below which explains the reason(s) for the violation(s) and what steps you have taken or will take to prevent further violation(s) of the MCWL. As always, the department is willing to meet with you to discuss the violation(s) and the actions necessary to bring your facility into compliance. If you would like to schedule a meeting or have questions, please contact water pollution staff at 417-891-4300, by mail at 2040 W. Woodland, Springfield, MO 65807-5912, or by email at ronda.crabtree@dnr.mo.gov.

If you have already provided this information, the department appreciates your efforts to return your facility to compliance.

Sincerely,

SOUTHWEST REGIONAL OFFICE

Kevin Hess, Chief Water Pollution Section

KH/rck

Enclosure: Discharge Monitoring Report Exceedance List

029.wpcp.OsageWaterCoKK.mo0123170.x.2016.06.21.fy16.dmrexcmd.x.ryc



Osage Water Company-KK Camden County MO0123170

DISCHARGE MONITORING REPORT EXCEEDANCE LIST

	Monitoring				Reported
Outfall	End Date	Parameter	Units	Permit Limitations	Values
001	3/31/2016	Nitrogen, ammonia total (as N)	mg/L	1.9 - Monthly Avg.	4.89



CLASS 2 INSPECTION FORM

INTERVIEWED > JIM HEPPLER - OPERATUR	4-27-2017
W05030015 EAGLE WOODS SUBD.	COUNTY
	ELEPHONE NUMBER
And the state of t	
COMMENTS AND RECOMMENDATIONS FOR CORRECTION The following comments are referenced to the applicable checklist items attached to	this form.
101 PWS does not have a sermet to dissense we	ter
106 PWS does not have an Emergency Operations	Plan
108 PWS does not live a Cross Connection Control of	rogiam
135/136 Meed distribution system map & value record	25
201/203 Non-compliant well-successfully completed Nou	1A 1/22/2015
229 PWS does not have a sound of energy on well	ing squipment
3:5 8 1	1
	vares
400 Improper design of vento on ground storage land	2/
410 Externs of ground starage tanks need pointed	
411e Tank inspection & cleaning program meded	
420, - hees & brush growing around taubs (honey suckle	vine an ladder)
435 Bladder tanks aren't equipped with isolation V	alves
103, - tinal Construction Impertion needed for Browned &	torage taubs,
booster premps & Chlorination system installed in I	800
Free Chlorine at well House 0.72 mg/L	
	\
Bacte sample collected from site 01 (10425 Eagle Crossing) was safe.
Free Chlorine & Total Chlorine residuals nested below	v
FREE & TOTAL CHLORINE RESIDUAL 0,67 mg/l Sample Collected & LOCA	TION LOT25 EAGLE CROSSING
INSPECTOR'S SIGNATURE TITLE	
ENV. SPEC. III	Schedule JC-S4 PAGE 1

COMPLIANCE & OPERATIONAL CHECKLIST

Fill in the appropriate box and if "C", explain in the comment section on the front of this form.

	1800/18				7 11112
□ NA /7	TEM #1 ADMINISTRATION				
C ok NA	Permit to Dispense status	C ok NA	Operational records	C ok NA	Grand fathered
	10CSR60-3.010		10CSR60-9.010(1)(A)	217	Vent screen/down turned
□ □ □ 102.	Construction permits		Chemical results (10 yrs)		Vent 18" above floor
102.	10CSR60-3.010(1)(A)	, 125.	10CSR60-9.010(1)(A)		Vent adequate size
103	Final approvals		Violation actions (3 yrs)	219.	Pump capacity
C C 103.	10CSR60-3.010(1)(B)	7	10CSR60-9.010(1)(B)		gpm @ psi
104	Owner supervised program		Inspection Reports (10 yrs)		_gpm @ psi
	10CSR60-10.010(2)(C)		10CSR60-9.010(1)(C)	□M□221	Well meter, operable
□ □ □105.	Certified Chief Operator	□□ ☑ 132.	Variance/exemption records		Drawdown measuring equip.
1	10CSR60-14.010(4)	1	(5 yrs) 10CSR60-9.010(1)(D)	□ ⊡ □ 223.	Pressure Gauge-operable
<u>□</u> □ 106.	Emergency operations plan	□ ☑ ☑ 133.	CCR CFR 141.153	□ 1 224.	Shutoff Valve
	10CSR60-12.010	□ ☑ □ 134.	Any system records		Check Valve
□ □ 107.	Lead ban ordinance		requested 10CSR60-9.010(2)		Wellhead sealed
V	10CSR60-10.040	/	inte		Piping condition
<u>₩</u> □ □ 108.	Backflow prevention program	□ □ 135.	Updated distribution map		Raw water sample tap past
j	10CSR60-11.010	☑ □ □ 136.	Individual valve records	1	check valve
□□☑109.	Backflow device records	□□,☑137.	Individual fire hydrant records	☑ □ □ 229.	Auxiliary power supply
1	10CSR60-11.010(7)(B)	□ ☑ □ 138.	Individual flush hydrant records	230.	Pitiless Unit, no adapter
□ ☑ □ 110.	Primacy fees		Main Brk/Leak Repair Program	□ □ ☑ 231.	Valve vault adequate size,
/	10CSR60-16.010	140.	Valve Maintenance Program	/	drained, & provide safe access
□ 🗹 🗆 111.	Laboratory & administration	141.	Main Flushing Program	□ □ ☑ 232.	Vertical Shaft Turbine Pumps
/	fees 10CSR60-16.030	□ 142.	Operational/Maint. records		Air Release - screened, down
□ □ 112.	Coliform sampling plan	№ □ □ 143.	Other TWF	/_	turned, 18" above floor
ý	10CSR60-4.020(1)(A)		#5	□ ☑ □ 233.	Security
□ Ø □ 113.	Pb/Cu Sampling plan		ITEM #2 SOURCE	□□□234.	Other
		The second secon			Other
/	10CSR60-15.070	□ NA	Groundwater		
/	10CSR60-15.070 Turbidity reporting	□ NA C ok NA	Groundwater	₩ NA	Reservoirs
□□ ☑ 114.	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4)	□ NA C ok NA	Groundwater Source of supply approved	NA C ok NA	Reservoirs
/	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting	□ NA C ok NA □ □ □ 201.	Groundwater Source of supply approved 640.115(1)	NA C ok NA 235.	Reservoirs Source of supply approved
□□ ☑ 114. □ ☑ □ 115.	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5)	□ NA C ok NA □ □ □ 201.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled	NA C ok NA 235.	Reservoirs Source of supply approved 640.115(1)
□□ ☑ 114.	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results	□ NA C ok NA □ □ 201. □ □ □ 202.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090	NA C ok NA 235.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams
□□ ☑ 114. □ ☑ □ 115. □ ☑ □ 116.	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010	□ NA C ok NA □ □ 201. □ □ □ 202.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements	NA C ok NA 235.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4)
□□ ☑ 114. □ ☑ □ 115. □ ☑ □ 116.	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification	□ NA C ok NA □ □ □ 201. □ □ □ 202. □ □ □ 203.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010	NA C ok NA 235.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring
□□ ☑ 114. □ ☑ □ 115. □ ☑ □ 116. □ ☑ □ 117.	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification requirements 10CSR60-8.010	□ NA C ok NA □ □ □ 201. □ □ □ 202. □ □ □ 203.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010 Sanitary construction defects	NA C ok NA 235. 236. 237.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring 10CSR22-3.030(1)(B)
□□ ☑ 114. □ ☑ □ 115. □ ☑ □ 116.	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification requirements 10CSR60-8.010 Exemption/ variance	NA C ok NA V □ 201. □ 202. V □ 203. □ 204.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010 Sanitary construction defects 10CSR60-4.080(5)	NA C ok NA 235.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring 10CSR22-3.030(1)(B) Recreational use plan
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	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification requirements 10CSR60-8.010 Exemption/ variance requirements 10CSR60-6.030 Sludge management permit or plan 10CSR20-8.170 NPDES Permit on plant discharge 10CSR20-6.010(5) Monitoring reports due by 10th 10CSR60-7.010(1)	NA C ok NA	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010 Sanitary construction defects 10CSR60-4.080(5) Siting requirements 10CSR60-10.020 GWUDI determination 10CSR60-4.055(1) Plugging abandoned wells	NA C ok NA 235. 236. 237. 238. 239.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring 10CSR22-3.030(1)(B) Recreational use plan 10CSR60-10.030 Siting requirements 10CSR60-10.020 Quality of water Capacity adequate for drought
	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification requirements 10CSR60-8.010 Exemption/ variance requirements 10CSR60-6.030 Sludge management permit or plan 10CSR20-8.170 NPDES Permit on plant discharge 10CSR20-6.010(5) Monitoring reports due by 10th 10CSR60-7.010(1)	NA C ok NA	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010 Sanitary construction defects 10CSR60-4.080(5) Siting requirements 10CSR60-10.020 GWUDI determination 10CSR60-4.055(1) Plugging abandoned wells 10CSR23-3.110	NA C ok NA 235. 236. 237. 238. 239. 240. 241. 242.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring 10CSR22-3.030(1)(B) Recreational use plan 10CSR60-10.030 Siting requirements 10CSR60-10.020 Quality of water
	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification requirements 10CSR60-8.010 Exemption/ variance requirements 10CSR60-6.030 Sludge management permit or plan 10CSR20-8.170 NPDES Permit on plant discharge 10CSR20-6.010(5) Monitoring reports due by 10th 10CSR60-7.010(1) Reporting regulation violations 10CSR60-7.010(2)	NA C ok NA 201. 202. 203. 204. 205. 206.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010 Sanitary construction defects 10CSR60-4.080(5) Siting requirements 10CSR60-10.020 GWUDI determination 10CSR60-4.055(1) Plugging abandoned wells	NA C ok NA 235. 236. 237. 238. 239. 241. 242.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring 10CSR22-3.030(1)(B) Recreational use plan 10CSR60-10.030 Siting requirements 10CSR60-10.020 Quality of water Capacity adequate for drought Does system have storage curves
	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification requirements 10CSR60-8.010 Exemption/ variance requirements 10CSR60-6.030 Sludge management permit or plan 10CSR20-8.170 NPDES Permit on plant discharge 10CSR20-6.010(5) Monitoring reports due by 10th 10CSR60-7.010(1) Reporting regulation	NA C ok NA 201. 202. 203. 204. 205. 206. 207.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010 Sanitary construction defects 10CSR60-4.080(5) Siting requirements 10CSR60-10.020 GWUDI determination 10CSR60-4.055(1) Plugging abandoned wells 10CSR23-3.110 Adequate number of wells	NA C ok NA 235. 236. 237. 238. 240. 241. 242.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring 10CSR22-3.030(1)(B) Recreational use plan 10CSR60-10.030 Siting requirements 10CSR60-10.020 Quality of water Capacity adequate for drought Does system have storage curves Stadial marker & weekly records
	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification requirements 10CSR60-8.010 Exemption/ variance requirements 10CSR60-6.030 Sludge management permit or plan 10CSR20-8.170 NPDES Permit on plant discharge 10CSR20-6.010(5) Monitoring reports due by 10th 10CSR60-7.010(1) Reporting regulation violations 10CSR60-7.010(2)	NA C ok NA 201. 202. 203. 204. 205. 206. 207.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010 Sanitary construction defects 10CSR60-4.080(5) Siting requirements 10CSR60-10.020 GWUDI determination 10CSR60-4.055(1) Plugging abandoned wells 10CSR23-3.110 Adequate number of wells Weather protection	NA C ok NA 235. 236. 237. 238. 240. 241. 242. 242. 243. 244. 245.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring 10CSR22-3.030(1)(B) Recreational use plan 10CSR60-10.030 Siting requirements 10CSR60-10.020 Quality of water Capacity adequate for drought Does system have storage curves Stadial marker & weekly records Siltation control structure condition Watershed management plan
	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification requirements 10CSR60-8.010 Exemption/ variance requirements 10CSR60-6.030 Sludge management permit or plan 10CSR20-8.170 NPDES Permit on plant discharge 10CSR20-6.010(5) Monitoring reports due by 10th 10CSR60-7.010(1) Reporting regulation violations 10CSR60-7.010(2) Reporting DBP & IESWTR	NA C ok NA 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 211.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010 Sanitary construction defects 10CSR60-4.080(5) Siting requirements 10CSR60-10.020 GWUDI determination 10CSR60-4.055(1) Plugging abandoned wells 10CSR23-3.110 Adequate number of wells Weather protection Security	NA C ok NA 235. 236. 237. 238. 239. 240. 241. 242. 242. 243. 244. 245. 246.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring 10CSR22-3.030(1)(B) Recreational use plan 10CSR60-10.030 Siting requirements 10CSR60-10.020 Quality of water Capacity adequate for drought Does system have storage curves Stadial marker & weekly records Siltation control structure condition
	10CSR60-15.070 Turbidity reporting 10CSR60-7.010(4) Disinfection reporting 10CSR60-7.010(5) Private lab coliform results 10CSR60-7.010 Public notification requirements 10CSR60-8.010 Exemption/ variance requirements 10CSR60-6.030 Sludge management permit or plan 10CSR20-8.170 NPDES Permit on plant discharge 10CSR20-6.010(5) Monitoring reports due by 10th 10CSR60-7.010(1) Reporting DBP & IESWTR 10CSR60-7.010(6) Enhanced Filtration & Disinf. Reporting 10CSR60-7.010(7)	NA C ok NA 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212.	Groundwater Source of supply approved 640.115(1) Well driller's permit (drilled after 1987) 10CSR23-1.090 Construction requirements 10CSR60-10.010 Sanitary construction defects 10CSR60-4.080(5) Siting requirements 10CSR60-10.020 GWUDI determination 10CSR60-4.055(1) Plugging abandoned wells 10CSR23-3.110 Adequate number of wells Weather protection Security Floor Drain Heating/venting/dehumidification Lighting	NA C ok NA 235. 236. 237. 238. 240. 241. 242. 242. 243. 244. 245.	Reservoirs Source of supply approved 640.115(1) Dam safety permit (dams >35' tall) 10CSR22-2.020(4) Dam maintenance & monitoring 10CSR22-3.030(1)(B) Recreational use plan 10CSR60-10.030 Siting requirements 10CSR60-10.020 Quality of water Capacity adequate for drought Does system have storage curves Stadial marker & weekly records Siltation control structure condition Watershed management plan
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COMPLIANCE & OPERATION CHECKLIST

Fill in the appropriate box and if "C", explain in the comment section on the front of this form.

	i iii iii iiie appropriate	tox and if o,	explain in the comment section of	in the hont of the	ils form.
ITEI	M #2 SOURCE (CONT.)	□ NA	Finished Water Pumping	TV 1432	Water logged
₩	PE REPORTED AND ADMINISTRAL PROPERTY OF THE PERSON OF THE	C ok,NA	ping		Exterior paint condition
₩ NA	Groundwater		Pressure psi	1 V 1 434	Bladder tank drawdown
C ok NA	144 v 5 0	□V □ 317.	Flowgpm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	acity eagal
252.	Discharge stream erosion	318	HP; Phase 3 or 1		acity eagal
	Discharge stream obstructions		Other		acity eagal
	Emergency spillway condition		Oo.		Other IsoxATION
255.	Other	1	TEM #4 STORAGE		Other
M NA	I - Principality and advantages w	lane.			Other
7	Rivers & Streams	□ NA	Unpressurized Storage	□ NA	ITEM #5 DISTRIBUTION
C ok NA	Decrease reading to the control of	C ok/NA		C ok NA	TIEM #3 DISTRIBUTION
256.	Source of supply approved	□ ☑ □ 401.	Storage covered & vented		Minimum Pressure
	640.115(1)		10CSR60-4.080(7)		10CSR60-4.080(9)
257.	Quality of Water	□ ☑ □ 402.	Approved chemicals, materials,	502	New mains & repairs
258.	Capacity during drought		& coatings 10CSR60-4.080(8)		disinfected 10CSR60-4.080(6)
259.	Raw water storage capacity &	□ ☑ □ 403.	Sanitary Defects	□ □ □ 503.	Main & sewer separation
	condition Coffer dam condition		10CSR60-4.080(5)	/	10CSR60-10.010(2)
	Intake protection			□ V □ 504.	Approved Chemicals,
	Vandalism control		Adequate capacity		materials, & coatings
263.	Other	□ ☑ □ 405.			10CSR60-4.080(8)
□□□263.	Other		*12" to 24" above ground	1 .4	
M NA	Intakes		*Screened or flap valve	□ ☑ ☑ 505.	Water loss ≤ 10%
C ok NA		406.	Vent screened (IMPROPER	506.	Adequate cleanouts, valves,
264.	Adequacy of water withdrawal	□ □ □ □ 407.	Access hatch locked VENT)		and hydrants to flush system
	levels		2" overlap, 4" to 6" curbing	□ □ □ □ 507.	Individual customer meter
265.	Capacity of water inlets	408.		□ ☑ □ 508.	Portable shoring available
	Water Inlets screened	□ 1 1 1 409.	Access ladder &	□□□509.	Other
□ □ □ 267.	Condition of intake control valves		appurtenances condition		6.00 /4234 (4.00)
□ □ 268.	Intake tower condition		Exterior paint condition	□ NA	ITEM #6 MCL/MONITORING
	Safety cable on intake hoses		Unsealed openings	C ok NA	
	Floats properly anchored	412.		□ 🖾 🗆 601.	Microbiological MCL
271.	Wench and cable condition		Isolation for maintenance		10CSR60-4.020(7)
□□□272.	Discharge pipe capacity	□ ☑ □ 414. □ ☑ □ 415.	Roof watertight & properly drained	□ ☑ □ 602.	Total Coliform Monitoring
\square \square \square 273.	Vandalism control	100 TO 10	Adequate drain		10CSR60-4.020
	Intake protected from flood damage	416.	Inspection Program	□ ₩ □ 603.	Inorganic chemicals
275.	Zebra mussel control program	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Protection-vandalism, animals, etc. Condition of valve vault		10CSR60-4.030
276.	Other	110.	Sample Tap		Nitrates/Nitrites
	A BUMBING STATIONS		Trees/Brush cleared		10CSR60-4.030(2)(C) & (D)
IIEM #	#3 PUMPING STATIONS	☐ ☐ ☐ 421.		_ <u> </u>	Synthetic organic chemicals
□ NA	Raw & Finish Water Pumping	L L L 721.	Other	D Wene	10CSR60-4.040 Monthly turbidity MCL
C ok,NA	rian a rimon trater rumping	□ NA	Pressure Tanks		
	Pumping capacity			/ or	10CSR60-4.050(2)(A)1 small 10CSR60-4.050(3)(B)1 large
	Adequate number of pumps	C ok NA			Acute turbidity MCL
	Pump operable during flooding	□ □ ☑ 422.	Drain		10CSR60-4.050(2)(A)2 small
	Sized for pump maintenance	$\square \square \square \not\square$ 423.	Water sight glass	/ or	10CSR60-4.050(3)(B)2 large
	Pump room access	□ □ 1 424.	Manway	□□∇608	Report acute turbidity MCL
-	Adequate safety equipment	$\square \square \square 425.$	Pressure Gauge		10CSR60-4.050(2)(D) small
	Heating and venting		Compressor	/ or	10CSR60-4.050(3)(D) large
□ ☑ □ 308.	Drains and sumps	□ □ W 427.	Air blow off		Continuous turbidity monitoring
□ ☑ □ 309.	Lighting (int&ext)	☐ ☑ ☐ 428.		/	10CSR60-4.040(3)(E)1
	Power supply	☐ M☐ 429.	Exterior paint condition	□ ☑ □610.	Disinfection Profiling
	Telemetry & pump control	□ 🗹 🗆 430.	Capacity	1	10CSR60-4.055(6)(C)
□☑,□312.	Pressure Gauges		No. of Tanks 3, Dia,	□ ☑ □611.	Radio- nuclides
□ 🗹 🖂 313.	Metering-operable		Circ, Ht/Length/		10CSR60-4.060
	Pump piping condition		Volume Ea gal	☐ ☑ ☐ 612.	Secondary contaminants
	Other SOCATION VALVES	□ ☑ □ 431.	Total Capacity 357 gal	po	10CSR60-4.070
	For Pumps				Construct STATE TO CONF. ON THE STATES

COMPLIANCE & OPERATIONAL CHECKLIST Fill in the appropriate box and if "C", explain in the comment section on the front of this form. ☐ ☐ ☑ 613. Fluoride supplementation NA NA 815. Adequate lab equipment Gas Chlorinator d ok NA 10CSR60-4.080(11) 816. Fluoride pump operable ☐ ☑ ☐ 614. Disinfection By-Products (DBP) 817. Sample tap 719. Adequate detention 720. Separate Cl₂ room TTHM & HAA5 100 pipe dia. past feed 818. Day tank 721. Interior wall view window 10CSR60-4.090(3)(B) ☐ ☑ ☐ 615. DBP Chlorite 819. Vented to outside 722. Panic bar door 723. Fan suction near floor 724. Inlet near ceiling 10CSR60-4.090(3)(B)2 □ □ 820. Other ☐ ☑ ☐ 616. DBP Bromate 10CSR60-4.090(3)(B)3 725. Chains n Cl₂ cylinders NA V Ion Exchange Softening ☐ ☑ ☐ 617. DBP Precursors TOC & 726. Cylinders on scales 727. Exterior fan/light switch ok NA 821. Adequate size Alkalinity 10CSR60-4.090(3)(D) ☐ ☑ ☐ 618. Volatile organic chemicals 822. Condition of softener 10CSR60-4.100 ☐ ☐ 729. Ammonia bottle 823. Metered for bypassing ☐ ☑ ☐ 619. Unregulated chemicals 824. Condition of salt storage 730. Leak detection/repair kit 10CSR60-4.110 731. Shower & eye wash 825. Other_ ☐ ☑ ☐ 620. Exceed Pb/Cu levels 732. Hydrocarbons in room ₩ NA Aeration 733. Sample tap Past Cl₂ 10CSR60-15.020-15.050 ☐ ☐ 621. Operational Monitoring C ok NA 734. Condition of room 826. Capacity 735. Security 10CSR60-4.080(3) 827. By-passing for maintenance ☐ ☑ ☐ 622. Disinfection Requirements 736. Other _ 828. Side access & drainage 10CSR60-4.055 NA 💢 829. Access to inlet distributor Other Types 830. Condition of air screens C ok NA ☐ NA ITEM #7 DISINFECTION 737. _ 831. Access for screen cleaning C ok,NA 738. ___ 832. Condition of media or trays 833. Condition fan & drive motor ☐ ☑ ☐ 701. Minimum residual - entry 739. 10CSR60-4.055(3) ☐ ☑ ☐ 702. Maximum residual - Dist. 834. Condition support structure 835. Condition of paint ₩ NA ITEM #8 TREATMENT System 10CSR60-4.055(5) □□□836. Other_ C ok NA ☐ ☑ ☐ 703. Minimum residual - Dist. 801. Approved chemicals, System 10CSR60-4.055(4) NA DE Rapid Mixing materials & coatings ☐ ☑ ☐ 704. Cl₂ Monitoring - Dist. System C ok NA 10CSR60-4.080(8) 10CSR60-4.055(4)(E) 837. Mixing detention 802. Aeration 10CSR60-4.080(5) □ ☑ □ 705. Monitoring frequency 838. Adequate mixer capacity □ □ ₺ 803. Chemical Application 10CSR60-4.055(3)(F) 839. Condition of mixer ☐ ☑ ☐ 706. Low residual reporting 10CSR60-4.080(5) 840. Mixer maintenance □ □ 804. Corrosion Control Treatment 10CSR60-4.055(3)(E) 841. Other 10CSR60-15.010(4) □□☑707. CT study done □ □ **805.** Mixing 10CSR60-4.080(5) NA NA Flocculation 10CSR60-4.055(2)(D) □ 806. Settling 10CSR60-4.080(5) C ok NA ☐ ☐ ☑ 708. Meeting CT requirement □□ 807. Filtration 10CSR60-4.080(5) 842. Adequate capacity 10CSR60-4.055(2)(C) ☐ ☐ ☑ 709. Add CI prior to ammonia 808. H.S. pumps 10CSR60-4.080(5) 843. Provisions for cleaning □ □ 809. Other pumps 844. Provisions for draining 10CSR60-4.055(3.A) ☐ ☐ ☑ 710. Add CI prior to filters 845. Mixer condition 10CSR60-4.080(5) □□□810. Control equipment 846. Mixer capacity 10CSR60-4.055(3.C) ☐ ☑ ☐ 711. Operated/Supervised 10CSR60-4.080(5) 847. Mixer access for maintenance □ □ 811. Plant water storage 848. Short circuiting thru basin adequately/Operational 849. Condition of basin 10CSR60-4.080(5) Monitoring ☐ ☐ 812. Operational Monitoring 850. SS testing at taps 10CSR60-4.080(5) 10CSR60-4.080(5) 851. Other □ NA Liquid Chlorinator 813. Carbon feed room ₩ NA Sedimentation C ok NA separate/explosion proof C ok NA ☐ ☑ ☐ 712. Physical condition of feeder 10CSR60-4.080(5) 852. Pre-sed. condition & capacity 713. Adequate detention

M NA

C' ok NA

Fluoride

10CSR60-4.080(11)

814. Sample submittal

☐ ☑ 714. Corrosion in room

☐ ☑ ☐ 717. Security

□ □ □ 718. Other_

☐ ☑ 715. Adequate feed control

☐ ☑ 716. Adequate venting, heating, lighting

853. Regular sed. purpose & cap.

855. Maintain units w/ continuous

856. Condition Inf. & Eff. facilities

854. Condition of structure

operation

COMPLIANCE & OPERATIONAL CHECKLIST Fill in the appropriate box and if "C", explain in the comment section on the front of this form. 857. Short circuiting in basin X NA NA NA Filtration Plant Information 858. Adequacy of sludge removal ok NA ok NA 862. Appropriate type 859. Condition of sludge equipment 870. General Condition Proper Lab equipment 2863. Adequate number for 860. Adequacy of sludge lines 861. Other 872. Calibration standards continuous operation 864. Condition of media 873. Tests according to directions 865. Maintenance Plan 874. Other 866. On-line Turbidimeters on each □ 875. Other _____ □ □ □ 876. Other _ filter/calibrated ∃ □ 867. Backwash rate & duration 20 868. Adequate backwash method □ □ □ 869. Other System Information for 12 Months Number of Active Services **Population Served** gal/Purchased Avg. Daily Supplied to Secondary Systems Avg. Daily Produced _____ Max. Daily Supplied to Secondary Systems Max. Daily Produced . gal/Purchased gal Water Loss 7000 gal **Total Storage** 1500 DIST