FILED
July 15, 2024
Data Center
Missouri Public
Service Commission

## Exhibit No. 10

Staff – Exhibit 10 DNR Records (Exh. 7 from WO-2024-0036) File No. WC-2023-0353 STATE OF MISSOURI

COUNTY OF COLE

S.S.

## AFFIDAVIT FOR BUSINESS RECORDS

Before me, the undersigned authority, personally appeared Shannon Wilson, Custodian of Records for the Missouri Department of Natural Resources, who being by me duly sworn, deposed as follows:

My name is Shannon Wilson, I am of sound mind, capable of making this affidavit, and personally acquainted with the facts herein stated:

I am the Custodian of Records for the Department of Natural Resources. Attached hereto are 160 pages of records inspection and well determination report with other related forms for drinking water sites.

These records are kept by the Department of Natural Resources in the regular course of business, and it was the regular course of business of the Department of Natural Resources\_for an employee or representative of the Department of Natural Resources with knowledge of the act, event, condition, opinion, or diagnosis recorded to make the record or to transmit information thereof to be included in such record; and the record was made at or near the time of the act, event, condition, opinion or diagnosis. The records attached hereto are the original or exact duplicates of the original.

In witness whereof I have hereunto subscribed my name and affixed my official seal this

Ve Speare

NED:

TAMI SPEARS
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
MY COMMISSION EXPIRES DECEMBER 6, 2026
COLE COUNTY

(SEAL)



Michael L. Parson Governor

> Dru Buntin Director

## **NOTICE OF VIOLATION**

August 16, 2022

CERTIFIED MAIL # 70001670000099977046

Travis Blevins Misty Mountain PWS 15405 Texas Road St. Robert, MO 65584

## BOIL WATER ORDER

Dear Travis Blevins:

The Misty Mountain public water system, MO3036363, specially Well #1 on Topo Drive, located in Pulaski County has exceeded the *E. coli* Maximum Contaminant Level for the month of August 2022, in violation of Missouri Safe Drinking Water Regulation 10 CSR 60-4.022 (10)(A) requiring immediate public notification. Four special samples collected on August 15, 2022, from the distribution system and the well, were total coliform-positive and *E. coli*-positive. The presence of *E. coli* in this water system may pose an ACUTE RISK TO HEALTH. As a result, the Missouri Department of Natural Resources, under authority provided in 640.130 Revised Statues of Missouri, is hereby issuing a BOIL WATER ORDER effective August 16, 2022, for the Misty Mountain public water system Well #1 on Topo Drive.

System officials are hereby ordered to issue a public notice to all customers of the water system advising them of the *E. coli* maximum contaminant level violation and to boil their drinking and cooking water before use. The notice must be issued within 24 hours of the date of this letter. The notice must be issued in a form and manner reasonably calculated to reach all persons served. The notice may be delivered using broadcast media such as radio and television or by hand delivery.

The following actions must be taken. Items 1-3 must be completed before the Department will consider lifting the Boil Water Order. The Department will notify you when the Boil Water Order can be lifted. The remaining items must be done, but will not affect lifting the order.

- 1. Within 24 hours of notification of the Boil Water Order, the public water system must notify its customers by the most effective means possible to boil drinking water prior to consumption.
- 2. After any required corrective actions have been completed, the system must collect three special samples each day for two consecutive days.

 Within ten calendar days of the official lifting of the Boil Water Order, return the enclosed certification page (see Attachment B & D) and a copy of the Boil Water Order notice that was posted to the Department in accordance with Safe Drinking Water Regulation 10 CSR 60-7.010.

Department staff will be at the system on August 16, 2022, to take additional compliance samples. If you have questions, please feel free to contact Dalten Young of my staff at 573-522-3322 or via mail at the DNRCFO.PDW@dnr.mo.gov

Sincerely,

CENTRAL FIELD OPERATIONS

Sebastien Clos-Versailles Environmental Supervisor

Enclosures-Attachment A, Attachment B, Attachment C

c: Patrick Vavra, Compliance and Enforcement Unit Chief, Public Drinking Water Branch Melissa May, Public Notice Coordinator, Public Drinking Water Branch Pulaski County Health Department







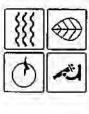
Hiervan el agua antes de usarla.

Your public water system is under a boil water order. You need to take the following actions:

- 1. Boil water vigorously for three minutes prior to use. Use only boiled water for drinking, brushing teeth, diluting fruit juices and all other food preparations, or consumption. Use of bottled water may be a feasible, though relatively expensive, alternative to boiling tap water when under a boil water order.
- Do not use ice from a household automatic icemaker or use any ice made with unboiled water from this system. Remake ice cubes with water that has been boiled or buy ice.
- 3. Disinfect dishes and other food contact surfaces by immersion for at least one minute in clean tap water that contains one teaspoon of unscented household bleach per gallon of water.
  - 4. LET WATER COOL SUFFICIENTLY BEFORE DRINKING.

Water used for bathing does not generally need to be boiled. Supervision of children is necessary while bathing or using backyard pools so water is not ingested. Persons with cuts or severe rashes may wish to consult their physicians.

SEE REVERSE FOR ADDITIONAL INFORMATION





# **Boil All Drinking Water**

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien. The Missouri Department of Natural Resources has issued a Boil Water Order for Misty Mountain, ID# MO3036363 for Well #1 on Topo Drive located in Pulaski

The order was issued on <u>August 16, 2022,</u> because total coliform bacteria was detected in water samples collected on the following date: August 15, 2022, and at least one of these samples also tested positive for *E. coli* bacteria exceeding the *E. coli* Maximum Contaminant Level for the August 2022 monitoring period.

E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human Pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms.

They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. These people should seek advice about drinking water from their health care providers. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

The order will remain in effect until any required corrective actions are completed as well as water samples indicating the contaminant is no longer present. You will be notified when the boil water order is lifted. You can reach the staff of your water system by calling:

(Phone #)	of the cause of the problem and actions being taken to correct
(Contact person at water system)	description of the cause of the problem

it are;

For additional Information, you may contact the Central Field Operations at 573-522-3322 or the Public Drinking Water Branch at 573-526-6925.

Please share this information with all other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.



## Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

## Misty Mountain PWS - Topo Drive IS UNDER A BOIL WATER ORDER

On August 16, 2022, the Missouri Department of Natural Resources issued a boil water order for the Misty Mountain public water system for Well #1 on Topo Drive, MO3036363, located in Pulaski County.

Four samples collected on August 15, 2022, from the water system were total coliform-positive and *E. coli*-positive. As our customer, you have a right to know what happened and what we are doing to correct the situation. We are now coordinating with the Missouri Department of Natural Resources to conduct additional sampling and investigating the extent of the problem.

E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human Pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. These people should seek advice about drinking water from their health care providers. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791. The symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

The order will remain in effect until any required corrective actions are completed as well as water samples indicating the contaminant is no longer present. You will be notified when the boil water order is lifted. You can reach the staff of your water system by calling:

(Contact person at water system)	(Phone #)	(Address)
1.4: 04 - 04 - 11	محجم به سمامه معادل المحجم	• i•
ecrintian at the callce at the nranlem a	no acimos beino laken la correc	
escription of the cause of the problem a	nd actions being taken to correct	t it are:

For additional Information, you may contact the Department's Central Field Operations at 573-522-3322 or Public Drinking Water Branch at 573-526-6925.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

The standard precautions consumers need to take are given below. If this system is providing bottled water this may not apply. Your public water system is under a boil water order. You need to take the following actions:

- Boil water vigorously for three minutes prior to use. Use only boiled water for drinking, brushing teeth, diluting fruit
  juices, and all other food preparations or consumption. Use of bottled water may be a feasible, though relatively
  expensive, alternative to boiling tap water when under a boil water order.
- 2. Do not use ice from a household automatic icemaker or use any ice made with unboiled water from this system. Remake ice cubes with water that has been boiled or buy ice.
- Disinfect dishes and other food contact surfaces by immersion for at least one minute in clean tap water that contains one teaspoon of unscented household bleach per gallon of water.
- LET WATER COOL SUFFICIENTLY BEFORE DRINKING.

Water used for bathing does not generally need to be boiled. Supervision of children is necessary while bathing or using backyard pools so water is not ingested. Persons with cuts or severe rashes may wish to consult their physicians.



## Instructions for Public Notice for August/2022 Acute Microbiological MCL Violations

Notification date: August 16, 2022

Date public must be notified by: August 17, 2022

Date to send documentation back to the Department by: Within seven days of notifying the public

Overview: Public water systems must provide public notice in a form and manner reasonably calculated to reach persons served in the required time period. The Department provides these instructions and sample notices to help systems comply with the Public Notice Rule and ensure the public is duly notified. An electronic version may be provided to the system upon request. Public water systems must take the following actions:

- A. As soon as possible, but within 24 hours, you must notify your customers to boil their drinking water by the most effective means possible. The Department will determine which or all of the following methods you need to use to achieve this:
  - 1. Hand deliver the attached door hanger or notice without taking staff away from correcting the problem that led to the violation. Fill in the blanks and make copies as needed. For door hangers, fold where indicated, punch holes, and loop rubber bands through the holes. This way you can readily leave the notice on doorknobs of homes, cabins or other lodging units. It is strongly recommended that parents or guardians of minors also be notified. Putting written instructions into peoples' hands is the single most effective way to reach customers when under a Boil Water Order. Its importance cannot be overstated.
  - 2. Post the notice in logical locations.
  - 3. If appropriate, use electronic means such as radio, television, or the internet to immediately notify customers. The Regional Office may have already notified some media on the system's behalf. The drawback to this method, however, is that it misses customers who do not tune in to the right station at the right time.
  - 4. Use any other effective means, such as a phone tree, e-mail, or standard mail. Update answering machines or voice mail to communicate Boil Water Order information to your customers when water system staff are busy with other calls or otherwise unavailable. Announcements at public meetings, schools, sporting events, or church services may also be effective.
- B. AFTER public notice has been made, return a copy of the published, posted, and/or distributed version of the public notice and the completed certification on the next page to:

Missouri Department of Natural Resources Water Protection Program Public Drinking Water Branch Attn: Public Notice Coordinator P.O. Box 176 Jefferson City, MO 65102-0176

YOU MUST SEND PUBLIC NOTICE DOCUMENTS TO THE DEPARTMENT TO FULFILL THIS REQUIREMENT. Failure to do so is a violation. Please submit documentation within seven days of notifying the public. You may fax these documents to 573-751-3110 or & mail to DWPublicNotice@dnr.mo.gov. Please retain a copy of the completed certification and public notice for a minimum of three years. Complete state regulations for the public notification of drinking water violations can be found in 10 CSR 60-8.010 http://sl.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c60-8.pdf.

If you have any questions about public notice, please contact the Public Notice Coordinator at the Water Protection Program, Public Drinking Water Branch at 573-526-0425.

## CERTIFICATION OF PUBLIC NOTICE - (Attachment C)

I certify public notice was performed by at least one of the method(s) checked below: Standard Mail Hand delivery Date: Date: Internet E-Mail Begin Posting Date: Date: End Posting Date: Posting: Begin Posting Date: End Posting Date: Locations: Media notified Television Stations: Date(s): Radio Stations: Date(s): Newspaper(s): Date(s): \_\_\_\_\_ Phoned customers Date(s): \_\_\_\_\_ Updated answering machines or voice mail: Other (please specify): (Signature) (Title) (Date)

PWS ID #: MO3036363

System Name: Misty Mountain PWS

County: Pulaski



Michael L. Parson Governor

> Dru Buntin Director

August 23, 2022

Travis Blevins Misty Mountain PWS 15405 Texas Road St. Robert, MO 65584

RE: Letter of Warning - Operator Certification

Dear Travis Blevins:

All community and nontransient noncommunity public water systems are required to employ a certified operator to oversee system operations and maintenance. Misty Mountain PWS (MO3036363) is required to have an operator certified at the DS I distribution level or higher. The Missouri Department of Natural Resources records indicate that your system does not have an operator certified at this level and is therefore in violation of Missouri Safe Drinking Water Regulation 10 CSR 60-14.010.

Within 15 days of this notification, Misty Mountain PWS must provide proof to the Department that they have obtained the services of a properly certified operator or enter into a Department approved schedule (corrective action plan) to obtain the services of a certified operator. Failure to comply with these requirements may result in the Department taking further enforcement action against your water system.

If you currently have a properly certified operator in charge of your water system, please contact the Water Protection Program's Public Drinking Water Branch, using the contact information provided at the end of this letter.

If you currently do not have a properly certified operator, your public water system may choose to have an employee obtain operator certification through the Department or you may enter into a contractual agreement with a certified operator to maintain your water system.

If you obtain the services of a certified operator through contract, you are required to submit a copy of the agreement with the operator's name, address, telephone number, and certification number in writing to the Water Protection Program's Public Drinking Water Branch within 15 days of this notification. The agreement shall indicate the responsibilities of the operator including, but not limited to, those listed in Missouri Safe Drinking Water Regulation 10 CSR 60-14.010(4)(F)1.

Travis Blevins Page 2

If you wish to have an employee become certified, you are required to submit a corrective action plan to the Water Protection Program's Public Drinking Water Branch within 15 days of this notification for review and approval. The plan must be on letterhead, signed by a person of authority and dated. The plan must include the name of person to be certified, position and affiliation with the public water system, and a schedule for when the employee will take the certification exam. Information on training courses and examination schedules is located online at <a href="https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/operator-certification">https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/operator-certification</a>. You can also contact the Operator Certification Unit by phone at 800-361-4827 to learn more about certification requirements.

All community and nontransient noncommunity public water systems are required to have a contingency plan for a standby replacement of the chief operator to be available at all times. Examples include a second employee certified at the chief operator level, a mutual assistance agreement with a nearby system, or a prearranged agreement with a contract operator.

Within 15 days of this notification, please contact the Water Protection Program's Public Drinking Water Branch to inform us of your contingency plan for a standby replacement of the chief operator.

If you have any questions regarding this letter, please contact Ms. Jackie Johnson by phone at 573-751-4414, by email at jackie johnson@dnr.mo.gov, or by mail at Department of Natural Resources, Water Protection Program, Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102-0176. Thank you.

Sincerely,

WATER PROTECTION PROGRAM

Lance Dorsey

Compliance and Enforcement Section Chief

LD:jjs

c: Sebastien Clos-Versailles, Unit Chief, Central Field Operations



Michael L. Parson Governor

> Dru Buntin Director

September 21, 2022

Lori Jean Misty Mountain PWS 203 North Clay Street #615 PO Box 615 Marshfield, MO 65706 Via email at ljean52066@gmail.com

## LEVEL 2 ASSESSMENT RESPONSE REQUIRED

#### Dear Lori Jean:

On August 11, 2022, the Missouri Department of Natural Resources' staff conducted a Level 2 Assessment of Misty Mountain PWS MO#3036363. The Level 2 Assessment was triggered in August 2022. Enclosed is a Schedule of Compliance to address actions needed to correct Sanitary Defects identified in the Level 2 Assessment. This schedule represents a commitment by the owner to take actions to correct the Sanitary Defects.

Please complete the corrective actions and submit documentation of the actions taken (photographs, receipt for repairs, tank inspection, etc.) to the Department's Central Field Operations so your system may be returned to compliance.

If you have any questions or would like to schedule a time to meet with Department staff to discuss compliance requirements, please contact Dalten Young by mail at the Department of Natural Resources', Central Field Operations, P.O Box 176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at DNRCFO.PDW@dnr.mo.gov.

Sincerely,

CENTRAL FIELD OPERATIONS

Sebastien Clos-Versailles Environmental Supervisor

Enclosure

c: Public Drinking Water Branch, Monitoring Unit Public Drinking Water Branch, Compliance and Enforcement Unit



## MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM PUBLIC DRINKING WATER BRANCH

# REVISED TOTAL COLIFORM RULE LEVEL 2 ASSESSMENT FORM

PUBLIC WATER SYSTEM (PWS) INFO	DRMATION			7.		
PWS NAME Misty Mountain PWS				PWS ID NUMBE MO30363		
Pulaski				MONTHLY COMPLIANCE PERIOD (MONTH/YEAR) August/2022		
PWS CONTACT PERSON Travis Blevins	PWS CONTACT POSITION/TITLE OWNER			PWS CONTACT PHONE NUMBER 573-855-2769		
System Type: ☑ Com; ☐ NTNC; ☐	TNC s	ource Typ	e(s): 🛛 GW; 🔲	SW or GWUD	ISW	; ☐ GWP; ☐ SWP
PWS PERSON IN RESPONSIBLE CHARGE Travis Blevins		NOTIFIC 8/17/2				
			R TELEPHONE NUMBER WITH AREA CODE   ASSESSOR EMAIL ADDRESS   Dalten.young@dnr.mo.gov			
REASON FOR LEVEL 2 ASSESSMEN	T .	i (de la res) Escalables	Tile of the state		1 - 4 C	
ROUTINE SAMPLES TOTAL COLIFORM-POSITIVE (#): REPEAT SAMPLES TOTAL CO.						
ROUTINE SAMPLES E. COLI-POSITIVE (#):	REPEAT SAN	APLES E. COL	I-POSITIVE (#):	6 SOURCE WATE	ER SA	MPLES E. COLI-POSITVE (#):
☑ E. coli MCL Violation			☐ Second	or greater Le	vel 1	Trigger in 12 months
INSTRUCTIONS	erne Eg.	Artes of the	11年以前2000年			
that supports your findings (i.e., water qualit Corrective Action, provide corrective action action(s) for issues identified, Sanitary Defect Checklist. Have any of the	n(s) and dat	e(s) compl	eted or provide prop	osed timeframe	for o	completion of outstanding corrective
1, GENERAL			☐ No issues	**************************************		)
	that could i	ntroduce	☐ H. Power Loss ☐ 1. Heavy snow	ribution syste ; / melt or flood available sou	m m ling	y conditions ain repairs or well pump pulled water (drop in water table)
Description In the past few months the system has were complaining that the people down causing the low pressure issues. The chave also been a possible source of contract the well house for the bladder tank for the system.	stream did neck valve n ntamination	not have was fixed	any water at all., Th but the well cap wa	ne system fou as open during	nd th g the	nat a check valve was leaking and maintenance activities which could

issues
Sample tap has atmospheric vacuum breaker Point of use treatment (water softener or cartridge filtration) at sampling location Unclean sample tap Leaking tap or erratic flow Sampling bottle mishandled Tap on a dead-end main Aerator/screen/O-ring/hose was not removed before sampling
issues Not Applicable
Denote the conference of conference of conference of conference of conference of conference of the con
issues Not Applicable
. Damaged intake or spring box . Other:
o issues Not Applicable
Cother:
on the well was not screened leaving an opening for contamination a week later the sytem tested positive for E coli. The system told ne was detected, which did not result in the system truly disinfection multiple times, each time leaving the well head open each time whi
MANA A DE LA
Meters not recently/properly calibrated . Solution pump not primed . Treatment bypassed . Treatment added or changed M. Softener serviced/salt added J. Any Turbidity changes D. Other:

A. Evidence of animals/insects in tank     B. Tank vent not downturned/screened     C. Tank access hatch has no water tight seal     D. Tank sample tap condition	I. Recent tank repairs
C. Tank access hatch has no water tight seal	
	☐ J. Tank is isolated
D Tank cample tan condition	☐ K. Incomplete inspection recommendations
	L. Incorrect operation of level control valves, altitude valves, and
E. Tank deterioration or rust noted	related appurtenances
F. Tank maintenance practices not followed	M. Tank leaking or holes in tank
☐ G. Low disinfectant residuals ☐ H. Debris in tank overflow pipe	N. Debris in tank  O. Tank hatch not locked
Li n. Debtis in tank overnow pipe	P. Evidence of vandalism/tampering
Date - last inspection of vents and hatches:	Q. Combined tank inlet/outlet
Date - last sanitary tank inspection:	R. Other:
Date - last tank cleaning:	
Description	
*	
6. BLADDER AND PRESSURE TANKS	No issues
	D. Bladder of bladder tank ruptured or waterlogged
A. Air/water tanks: air added recently	The Carlot of the Control of the Con
B. Pressure tank not on main line	E. Bladder of bladder tank ruptured or waterlogged
B. Pressure tank not on main line C. If "A" is checked, is air filter dirty	☐ E. Bladder of bladder tank ruptured or waterlogged ☐ F. Other
B. Pressure tank not on main line	
☐ B. Pressure tank not on main line ☐ C. If "A" is checked, is air filter dirty  Description	F. Other:
□ B. Pressure tank not on main line □ C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES	☐ F. Other:  ☐ No issues
□ B. Pressure tank not on main line □ C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES □ A. Pump Facility subject to flooding □ B. Pump maintenance	☐ F. Other:
□ B. Pressure tank not on main line □ C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES □ A. Pump Facility subject to flooding	☐ F. Other:
□ B. Pressure tank not on main line □ C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES □ A. Pump Facility subject to flooding □ B. Pump maintenance □ C. Leaks around pump seals	☐ F. Other:
□ B. Pressure tank not on main line □ C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES □ A. Pump Facility subject to flooding □ B. Pump maintenance □ C. Leaks around pump seals	☐ F. Other:
□ B. Pressure tank not on main line □ C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES □ A. Pump Facility subject to flooding □ B. Pump maintenance □ C. Leaks around pump seals  Description  8. DISTRIBUTION SYSTEM □ A. Any unprotected cross connection	☐ F. Other:  ☐ No issues ☐ Not Applicable ☐ D. Electrical systems for pumps ☐ E. Low pressures due to pumping facilities ☐ F. Other: ☐ Who issues ☐ H. Recent flushing of fire hydrants or blow-offs
□ B. Pressure tank not on main line □ C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES □ A. Pump Facility subject to flooding □ B. Pump maintenance □ C. Leaks around pump seals  Description  8. DISTRIBUTION SYSTEM □ A. Any unprotected cross connection □ B. Submerged air-reliet/air-vacuum valve	
□ B. Pressure tank not on main line □ C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES □ A. Pump Facility subject to flooding □ B. Pump maintenance □ C. Leaks around pump seals  Description  8. DISTRIBUTION SYSTEM □ A. Any unprotected cross connection □ B. Submerged air-reliet/air-vacuum valve □ C. Any recent construction activity	
B. Pressure tank not on main line C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals  Description  8. DISTRIBUTION SYSTEM A. Any unprotected cross connection B. Submerged air-reliet/air-vacuum valve C. Any recent construction activity D. New service connections recently added	☐ F. Other:  No issues ☐ Not Applicable  ☐ D. Electrical systems for pumps ☐ E. Low pressures due to pumping facilities ☐ F. Other:  ☐ Who issues ☐ H. Recent flushing of fire hydrants or blow-offs ☐ I. Improper operation of pumps or valves ☐ J. Recent main breaks or leaks ☐ K. Recent pump or valve failure
B. Pressure tank not on main line C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals  Description  8. DISTRIBUTION SYSTEM A. Any unprotected cross connection B. Submerged air-reliet/air-vacuum valve C. Any recent construction activity D. New service connections recently added E. Flushing procedure not followed	
B. Pressure tank not on main line C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals  Description  8. DISTRIBUTION SYSTEM A. Any unprotected cross connection B. Submerged air-reliet/air-vacuum valve C. Any recent construction activity D. New service connections recently added E. Flushing procedure not followed F. Low/inadequate disinfectant residuals	☐ F. Other:
□ B. Pressure tank not on main line □ C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES □ A. Pump Facility subject to flooding □ B. Pump maintenance □ C. Leaks around pump seals  Description  8. DISTRIBUTION SYSTEM □ A. Any unprotected cross connection □ B. Submerged air-reliet/air-vacuum valve □ C. Any recent construction activity □ D. New service connections recently added □ E. Flushing procedure not followed	
B. Pressure tank not on main line C. If "A" is checked, is air filter dirty  Description  7. PUMPING FACILITIES A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals  Description  8. DISTRIBUTION SYSTEM A. Any unprotected cross connection B. Submerged air-relief/air-vacuum valve C. Any recent construction activity D. New service connections recently added E. Flushing procedure not followed F. Low/inadequate disinfectant residuals	

9/MONITORING	⋈ No issues	☐ Not Applicable	
□ A Residuals recorded daily     □ B. Daily CT/Turbidity records     □ C. Unusual chemistry trending     □ D. GWR 4-log monitoring records     □ E. Approved monitoring equipment	☐ F. Equipment or ☐ G. Fire event ☐ H. CT calculation☐ I. Chloring mon ☐ J. Other:	- 2	
Description	- 1		

## 10. ADDITIONAL INFORMATION-PHOTOGRAPHS AND SAMPLE RESULTS

Sample Type	Date Collected	Lab#	Site ID	Location Address	Coliform Results Absent / Present		Chlorine Residual Chloramine (mg/L)	
oumpie Type	mm/dd/yyyy	(Accession#)		215 Edward Various		E Cali	Free	Total
Special	8/18/2022	719865	WL	Topo Dr Well	P	P	NA	NA
Special	8/18/2022	719868	WL	Topo Dr Well	P	P	NA	NA
Special	8/18/2022	719867	WL	Topo Dr Well	P	P	NA	NA
Special	8/18/2022	719866	WL	Topo Dr Well	P	P	NA	NA
Special	8/18/2022	719864	WL	Topo Dr Well	P	P	NA	NA
Special	8/18/2022	719861	WL	Topo Dr Well	P	P	NA	NA
Special	8/18/2022	719862	TCR	23249 Topo Drive	P	P	NA	NA
Special	8/18/2022	719860	TCR	23249 Topo Drive	P	P	NA	NA
Special	8/18/2022	719863	TCR	23249 Topo Drive	P	P	NA	NA



Photograph #1

Date: August 25, 2022

By: Sebastien Clos-Versailles System: Misty Mountain PWS Location: Topo Drive Well House

Description: View of air relief valve without a screen

Corrective Action: Use this space to describe corrective action(s) taken with completion date(s) and/or proposed corrective action(s) with planned completion date(s). PWS must notify DNR Regional Office after completing each scheduled corrective action:

The system will need to equip the air relief with an 18-mesh corrosion resistant screen to prevent contaminants from getting into the well.

The system will need to properly shock and flush the system. When shocking the well, the system must properly let the chlorine disinfect the system by pouring the chlorine down the well, flushing the casing with a hose, and flushing each connection until chlorine is present at each connection. The system will need to let the water sit overnight before flushing the system until the chlorine is out of the system.

The system must also send in the corrective actions letter to acknowledge the issues with the Topo Drive Well.

Certification: I hereby certify that the information contained herein is true, accurate and complete to the best of my knowledge and belief.

ASSESSOR NAME (TYPE OR PRINT)

ASSESSOR TELEPHONE WITH AREA CODE

DATE

573-522-3018

8/26/2022

ASSESSOR SIGNATURE

Dalten.young@dnr.mo.gov

Submit this completed form within 30 days of notification to the appropriate Missouri Department of Natural Resources regional office.

See website for map: http://dnr.mo.gov/regions/ or call the Public Drinking Water Branch at 573-751-1077 for assistance.

780-xxxx (11-19)

## Schedule of Compliance

Misty Mountain PWS 15405 Texas Road St Robert, MO 65584 MO3036363

Misty Mountain PWS shall complete the following action to correct Sanitary Defects identified during the Level 2 Assessment completed on September 21, 2022 as per the Missouri Safe Drinking Water Law and its implementing regulations. This Schedule of Compliance represents a commitment by the Owner to take actions to correct the Sanitary Defects. The Missouri Department of Natural Resources reserves its right to initiate formal enforcement actions and/or pursue penalties pursuant to 640.130 and 640.131 of the Missouri Revised Statues.

## Sanitary Defects:

1. Air relief valve not screened

## REQUIRED ACTIONS:

- The system will need to put an 18-mesh corrosion resistant screen on the air relief valve by October 21, 2022.
- Sign the enclosed Corrective Actions document and return to the Department by October 21, 2022.

#### Recommendations:

The system will need to properly shock and flush the system. When shocking the well, the
system must properly let the chlorine disinfect the system by pouring the chlorine down the
well, flushing the casing with a hose, and flushing each connection until chlorine is present at
each connection. The system will need to let the water sit overnight before flushing the
system until the chlorine is out of the system.

Should additional time be required due to construction activities or other valid reasons, a request for extension of a specific deadline may be submitted to the Department for review and consideration.

Submit the written response to the Central Field Operations ATTN: Dalten Young by mail at the Department of Natural Resources, Central Field Operations, PO Box 176, Jefferson City, MO 65102 or by email at DNRCFO.PDW@dnr.mo.gov.

## CORRECTIVE ACTION PLAN FOR SOURCE WATER CONTAMINATION GROUND WATER RULE

Name of public water System: Misty Mountain PWS

ID# of public water system: MO3036363

County: Pulaski County

Month of E coli. Samples: August 2022

I certify that the presence of *E. coli* in the Topo Drive well (WL20295) will be corrected by one or more of the following actions:

## PLEASE CIRCLE WHICH ONE(S) WILL BE USED

- 1. Find and eliminate the source of contamination by the method described below.
- 2. Provide chlorination that achieves 99.99 percent (4-log) inactivation or removal of viruses. The system must consult an engineer to install adequate chlorination and detention to meet the required 4-log inactivation or removal of viruses exiting detention. The public water system understand free daily chlorine measurements will be required and to submit them to the Department monthly.
- 3. Drill a new state approved well.
- 4. Connect to another Department approved public water system.

I certify that I will notify the Department within 30 days after the required corrective action is complete. Failure to comply with this requirement by the deadline may cause the Department to initiate legal action, including appropriate penalties, to obtain compliance with this requirement.

Date
Date
Date
*

Mail to Central Field Operations, P.O. Box 176, Jefferson City, MO 65102, or email to DNRCFO.PDW@dnr.mo.gov

RECEIVED

OCT 1 1 2022

Water Protection Program

# CORRECTIVE ACTION PLAN FOR SOURCE WATER CONTAMINATION GROUND WATER RULE

Name of public water System: Misty Mountain PWS

ID# of public water system: MO3036363

County: Pulaski County

Month of E coli. Samples: August 2022

I certify that the presence of E. coli in the Topo Drive well (WL20295) will be corrected by one or more of the following actions:

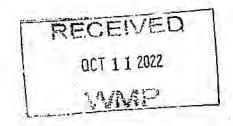
## PLEASE CIRCLE WHICH ONE(S) WILL BE USED

- Find and eliminate the source of contamination by the method described below.
   Provide chlorination that achieves 99.99 percent (4-log) inactivation or removal of viruses. The system must consult an engineer to install adequate chlorination and detention to meet the required 4-log inactivation or removal of viruses exiting detention. The public water system understand free daily chlorine measurements will be required and to submit them to the Department monthly.
- 3. Drill a new state approved well.
- 4. Connect to another Department approved public water system.

I certify that I will notify the Department within 30 days after the required corrective action is complete. Failure to comply with this requirement by the do nitiate legal action, including appropriate penalties, to obtain compliance with this requirement.

Additional Comments he delle uf	som pliance.
1. 9	
Lyn + AG	930-2022
Signature of Person Responsible	Date
Typed or Printed Name	
Owner	
Title	

Mail to Central Field Operations, P.O. Box 176, Jefferson City, MO 65102, or email to DNRCFO.PDW@dnr.mo.gov



RECEIVED

OCT 11 2022

Water Protection Program

# Misty Mountain PWS

15405 Texas Road St Robert, MO 65584 MO3036363

Misty Mountain PWS shall complete the following action to correct Sanitary Defects identified during the Level 2 Assessment completed on September 21, 2022 as per the Missouri Safe Drinking Water Law and its implementing regulations. This Schedule of Compliance represents a commitment by the Owner to take actions to correct the Sanitary Defects. The Missouri Department of Natural Resources reserves its right to initiate formal enforcement actions and/or pursue penalties pursuant to 640.130 and 640.131 of the Missouri Revised Statues.

## Sanitary Defects:

1. Air relief valve not screened

## REQUIRED ACTIONS:

- The system will need to put an 18-mesh corrosion resistant screen on the air relief valve by October 21, 2022.
- Sign the enclosed Corrective Actions document and return to the Department by October 21, 2022.

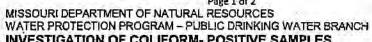
## Recommendations:

1. The system will need to properly shock and flush the system. When shocking the well, the system must properly let the chlorine disinfect the system by pouring the chlorine down the well, flushing the casing with a hose, and flushing each connection until chlorine is present at each connection. The system will need to let the water sit overnight before flushing the system until the chlorine is out of the system.

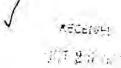
Should additional time be required due to construction activities or other valid reasons, a request for extension of a specific deadline may be submitted to the Department for review and consideration.

Submit the written response to the Central Field Operations ATTN: Dalten Young by mail at the Department of Natural Resources, Central Field Operations, PO Box 176, Jefferson City, MO 65102 or by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>.

mö3036363-misty-mountain-pws-20220908-ussi-pulaski-dw



Page 1 of 2



PWS: Mist	ty Mountain PW	S	ID# MO30	36363 County:	Pulaski	LIC DRI	avtMC 1	- Cities
Sample Resu	lts via: Email		-	Date Received				
		Reno	et of Total Col	iform Positive Samples				
Control Torres	Date Collected	100 p. 100 p			Colife	orm A/P	Ch	orine
Sample Type	m/d/yyyy	Lab#	Site ID	Location Address	TC	E Çoli	Free	Tota
Routine	090/06/2022	727749	04	24443 Tigger Lane	P	A	NA	NA
Repeat OR	09/19/2022	734539	04	24443 Tigger Lane	A	A	NA	NA
Repeal – UP	09/19/2022	734537	Tcr	Tigger lane	A	A	NA	NA
Repeat - DN	09/19/2022	734538	tor	24423 tigger lane	P	A	NA	NA
GW Source	09/19/2022	734510	W120298	well	A	A	NA	NA
Other				7		1.7		
Other		e de la companione de l						7
Other			3		1			16.
Person Called:	Lori Jean			Phone: 417-425-9343	Date: 0	9/08/2022		
	equired to collect re	neat samples	bv:					-
	population <1,000			If YES, PWS have 4	I on treati	nent?	No 🗇	Yes
	imple approved for				Log acau	HEHET LJ	NO L	103
Dual Furpose 36	unhie approved in	ulia GVV ayala		d or COMMENTS				
09/08/2022-			ACTIONS and	3 Of COMMENTS				
			-8-					
	Exceeded? N	o ⊠Yes(L	evel 1 or 2 Assess	ment will be required) Date of prev	ious RTC	R exceeds	nca-Aug	
42	Violation	al 1 TT Triner	Multiple TC Positio					
E coll MGL		-	article star	ves Level 1 TT Triger-Failure	to Collect	All Repea	t Sample:	3
E coll MGL		-	article star		to Collect	All Repea	t Sample:	3
E coll MGL	opied on: (d	ate) (Note: 24	RTCR TT exceed	ves Level 1 TT Triger-Failure lances in 12 months or E.coli positi	to Collect ve will req	All Repea	t Sample:	3
E coll MCL 1	opied on: (d	ate) (Note: 24	RTCR TT exceed	ves Level 1 TT Triger-Failure lances in 12 months or E.coli positi Source Water Sample Require	to Collect ve will req	All Repea	t Sample: 2 Assess	ment)
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Michael L Parson Governor

> Dru Buntin Director

7099 3220 0009 3711 1301

November 21, 2022

Misty Mountain PWS Travis Blevins 203 North Clay Street PO Box 615 Marshfield, MO 65706

## REFERRAL NOTICE OF VIOLATION CFO RNOV# 23003

Dear Travis Blevins.:

The entity operating under the authority of Misty Mountain PWS, MO3036363, is being sent this Referral Notice of Violation (RNOV) NOV #SL 23003 based on the accumulation of the following violations:

- · E coli. Maximum Containment Level for the following dates:
  - a 8/19/2022
  - a 10/19/2022
  - a 11/17/2022

This case is being referred to the Department's name of Program enforcement for further action. If you have questions regarding the status of the enforcement case or would like to meet with Department staff to discuss compliance requirements; please contact Patrick Vavia by mail at the Missouri Department of Natural Resources, Water Protection Program, Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102; by phone at 573-751-1606; or by email at patrick vavia@dor.mo.gov.

Sincerely,

CENTRAL FIELD OPERATIONS

Tracy Hang () Environmental Supervisor

Enclosure:

C:

Public Drinking Water Branch, Compliance and Enforcement Unit Pulaski County Health Department



Michael L Parson Governor

> Dru Buntin Director

November 21, 2022

Travis Blevins
Misty Mountain PWS
203 North Clay Street
PO Box 615
Marshfield, MO 65706
Via email at Ljean52066@gmail.com

## LEVEL 2 ASSESSMENT RESPONSE REQUIRED

## Dear Travis Blevins:

On November 14, 2022, the Missouri Department of Natural Resources' staff conducted a Level 2 Assessment of Misty Mountain PWS MO#3036363. The Level 2 Assessment was triggered in November 2022. Enclosed is a Schedule of Compliance to address actions needed to correct Sanitary Defects identified in the Level 2 Assessment. This schedule represents a commitment by the owner to take actions to correct the Sanitary Defects.

Please complete the corrective actions and submit documentation of the actions taken (photographs, receipt for repairs, tank inspection, etc.) to the Department's Central Field Operations so your system may be returned to compliance.

If you have any questions or would like to schedule a time to meet with Department staff to discuss compliance requirements, please contact Dalten Young by phone at 573-522-3322; by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>; or by mail at the Department of Natural Resources, Central Field Operations, P.O Box 176, Jefferson City, MO 65102. Thank you.

Sincerely,

CENTRAL FIELD OPERATIONS

Environmental Supervisor

Enclosure

C:

Public Drinking Water Branch, Monitoring Unit Public Drinking Water Branch, Compliance and Enforcement Unit Pulaski County Health Department

## Schedule of Compliance

1.80

Misty Mountain PWS 15405 Texas Road St. Robert MO3036363

Misty Mountain PWS shall complete the following action to correct Sanitary Defects identified during the Level 2 Assessment completed on November 14, 2022, as per the Missouri Safe Drinking Water Law and its implementing regulations. This Schedule of Compliance represents a commitment by the Owner to take actions to correct the Sanitary Defects. The Missouri Department of Natural Resources reserves its right to initiate formal enforcement actions and/or pursue penalties pursuant to 640.130 and 640.131 of the Missouri Revised Statues.

## Sanitary Defects:

- 1. Defective/damaged well cap/well seal
- 2. Well recently repaired/wellhead opened
- 3. Potential source of contamination near well
- 4. Damaged pitless adaptor
- 5. Recent main breaks or leaks

## REQUIRED ACTIONS: By December 21, 2022

- 1. 1. Check the seal on the well head to ensure that there are no cracks or defects with the seal.
- 2. Tighten the bolts on the well head to ensure no contaminants can enter the well.
- 3. Invesitage the white pipe located near the well located, as pictured in Photo #1, to identify what the pipe leads to, certain set back distances need to be met per Missouri Safe Drinking Water Regulations:
  - a. Waterwater lagoons 300 feet
  - b. Sewage pumping station 100 feet
  - c. Sanitary sewer lines 50 feet
  - d. Pits, sumps, or holes 50 feet
  - e. Septic tanks 300 feet
- 4. Excavate the area around the well to inspect the pitless adapter and replace if needed.
- 5. Investigate the possible leak near the well and possibly the repair or replace the line.
- 6. If after the sanitary defects have been addressed and the system keeps having E Colipositive samples, emergency chlorination will need to be added to the system.

## MANDATORY CHLORINATION:

If the system fails to address the sanitary defects by December 21, 2022, the Department will require mandatory chlorination to treat the water by January 20, 2023.

If chlorination is add to the well, the system will need to have a licensed engineer conduct an engineer report on the system to verify that the changes to the system will not lessen the water quality.

Should additional time be required due to construction activities or other valid reasons, a request for extension of a specific deadline may be submitted to the Department for review and consideration.

Submit the written response to the Central Field Operations ATTN: Dalten Young by mail at the Department of Natural Resources, Central Field Operations, PO Box 176, Jefferson City, MO 65102 or by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>.



## MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM PUBLIC DRINKING WATER BRANCH

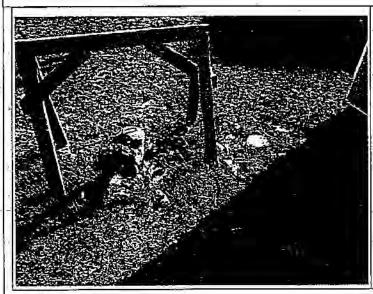
# REVISED TOTAL COLIFORM RULE LEVEL 2 ASSESSMENT FORM

Most Name   Most	PUBLIC WATER SYSTEM (PWS) INFO	RMATION	on formation		VE.		
Pulsaki  Pors contract reason  Lori Jean  November 10, 2022  ASSESSOR Type:   November 10, 2022  ASSESSOR MANE  Travis Blevins  November 10, 2022  ASSESSOR MANE  ASSESSOR MANE  Port Duting North Brown  ASSESSOR MANE  ASSESSOR MANE  ASSESSOR MANE  ASSESSOR MANE  November 10, 2022  ASSESSOR MANE  ASSESSOR  ASSESSOR  ASSESSOR  ASSESSOR  ASSESSOR  ASSESSOR  ASSESSOR  ASSESSOR  ASSESSOR  AND  ASSESSOR  ASSESSOR  ASSESSOR  AND  ASSESSOR  ASSESSOR  AND  ASSESSOR  ASSESSOR							Ĩ
Continue Samples Total Courson February   Course Type(e):   Survice							J
NOTIFICATION BITE OF LEVEL 2 ASSESSMENT TRIBOGER   NOVEMBER 10, 2022   NOVEMBER 11, 2022   NOVEMBER 21, 2023   NOVEMBER 21,						3	
Travis Blevins   November 10, 2022   November 14, 2022   ASSESSOR NAME   Dalten Young   S73-522-3018   S73-522-3018   Dalten Young   S73-522-3018   Dalten Young   Dalten Y	System Type: ☑ Com; ☐ NTNC; ☐ T	/stem Type: ☑ Com; ☑ NTNC; ☐ TNC Source Typ			)ISW	; ☐ GWP; ☐ SWP	ŀ
Dalten Young One Rescons Assessment Present Our Present SASSESSMENT  REASON FOR LEVEL 2 ASSESSMENT  ROUTINE SAMPLES TOTAL COLIFORAL POSITIVE (II):  1							
REASON FOR LEVEL 2 ASSESSMENT  ROUTINE SAMPLES TOTAL COLPOSHPOSITIVE (#):  1	Dalten Young						
**ROUTINE SAMPLES TOTAL COLIFORM-POSITIVE (#):    1		SESSMENT					
A Loss of pressure (<20 psi) or pressure fuctuations  B. Operation/maintenance activities that could introduce contamination  C. Signs of vandalism/forced entry into well/pump house  D. Second or greater Level 1 Trigger in 12 months  NSTRUCTIONS:  Sanitary Defect Checklist, review and evaluate the listed elements below. Check ☑ the box next to each issue or polential cause of contamination that was identified during the assessment. If no potential cause of contamination was identified in a subsection, check ☑ the box next to *No issues* in that subsection. Check ☑ *No Applicable* if the section does not apply to the public water system. Description, Use the space to provide explanation and additional information for any issues that were identified in Sanitary Defect Checklist that supports your findings, (i.e. water quality and pressure monitoring data), include corresponding dates with your findings. Corrective Action, provide corrective action(s) and date(s) completed or provide proposed fimeframe for completion of outstanding corrective action(s) for issues identified.  Sanitary Defect Checklist Have any of the following occurred?  1. GENERAL  No issues  A Loss of pressure (<20 psi) or pressure fluctuations  B. Operation/maintenance activities that could introduce contamination  C. Signs of vandalism/forced entry into well/pump house  D. Heavy rainfall  E. Extremes in heat or cold  Description	REASON FOR LEVEL 2 ASSESSMENT				**************************************		
Second or greater Level 1 Trigger in 12 months			PLES TOTAL COLFORM POSITIVE (#)	1 1 1 1 2 more and the control of th	T SAMP	PLES WATER SYSTEM FAILED TO COLLECT (#):	9
Sanitary Defect Checklist, review and evaluate the listed elements below. Check ☑ the box next to each issue or potential cause of contamination that was identified during the assessment. If no potential cause of contamination was identified in a subsection, check ☑ the box next to "No issues" in that subsection. Check ☑ "Not Applicable" if the section does not apply to the public water system.  Description, Use the space to provide explanation and additional information for any issues that were identified in Sanitary Defect Checklist that supports your findings (i.e. water quality and pressure monitoring data). Include corresponding dates with your findings.  Corrective Action, provide corrective action(s) and date(s) completed or provide proposed timeframe for completion of outstanding corrective action(s) for issues identified.  Sanitary-Defect Checklist Have any of the following occurred?  1. GENERAL ☑ No issues ☐ A. Loss of pressure (<20 psi) or pressure fluctuations ☐ B. Operation/maintenance activities that could introduce contamination ☐ C. Signs of vandalism/forced entry into well/pump house ☐ G. Recent distribution system main repairs or well pump pulled ☐ H. Power Loss ☐ I. Heavy nainfall ☐ I. Heavy rainfall ☐ I. Heavy snow melt or flooding ☐ J. Changes to available source water (drop in water table) ☐ Description  Description		115-170-171 (2.7)	PLES E. COLIPOSITIVE (#):	The second secon	ER SAI	MPLES & COLLIPOSITVE (#):	
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A. Loss of pressure (<20 psi) or pressure fluctuations   B. Operation/maintenance activities that could introduce contamination   F. Visible indicators of unsanitary conditions   G. Recent distribution system main repairs or well pump pulled   H. Power Loss   I. Heavy snow melt or flooding   J. Changes to available source water (drop in water table)   K. Other;   S. Extremes in heat or cold   Color	Corrective Action, provide corrective action action(s) for issues identified.	(s) and date	e(s) completed or provide prop	osed timeframe	e for c	ompletion of outstanding corrective	
<ul> <li>A. Loss of pressure (&lt;20 psi) or pressure fluctuations</li> <li>B. Operation/maintenance activities that could introduce contamination</li> <li>C. Signs of vandalism/forced entry into well/pump house or storage</li> <li>D. Heavy rainfall</li> <li>E. Extremes in heat or cold</li> <li>F. Visible indicators of unsanitary conditions</li> <li>G. Recent distribution system main repairs or well pump pulled</li> <li>H. Power Loss</li> <li>I. Heavy snow melt or flooding</li> <li>J. Changes to available source water (drop in water table)</li> <li>K. Other:</li> </ul> Description		e following	occurred?				
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	Description						

2. SAMPLING SITES AND SAMPLING PROTOCOL	⊠ No issues		
A. Windy & raining during sampling  B. Change in conditions at sample site  C. Yard hydrant/frost-proof spigot used  D. First month of operation following startup  E. Vegetation rest up against sample site  F. Sample close to ground/difficult to sample  G. Tap not disinfected and flushed before sampling  H. Hot/cold (swivel/auto sensing) mixing faucet  Untrained or inexperienced sample collector	□ J. Sample tap has atmospheric vacuum breaker     □ K. Point of use treatment (water softener or certridge filtration sampling location     □ L. Unclean sample tap     □ M. Leaking tap or erratic flow     □ N. Sampling bottle mishandled		
Description			
3. SOURCE(S)			
WELLS:	☐ No issues ☐ Not Applicable		
	⊠ G. Potential source of contamination near well     H. Damaged well casing     I. Damaged pittess adaptor     J. Missing/damaged grout seal     K. Other		
SURFACE WATER/GWUDISW:	☐ No issues		
A. Recent flooding or heavy rainfall	D. Damaged intake or spring box		
B. Change in source water quality     C. Any potential source of contamination near source	E Other:		
PURCHASED WATER:	☐ No issues ☐ Not Applicable		
□ A. Water quality issues with supplier     □ B. Low disinfectant residual from supplier (< 0.2 mg/L)	C, Other:		
The owner believes that the pitless adaptor is cracked white	s recently opened and not bolted back down properly.  tely four feet away from the well head. It is unknown what that pipe is or leads to.  ch may have cause the land around the well to sink in around the well head.		
4. TREATMENT PROCESS	☐ No issues		
A. Inadequate disinfection     B. Interruption in treatment/power loss     C. Chlorine/Turbidity meters out of range     D. Change in chemical used/dosage     E. Solution injector/tank condition     F. O and M procedures not followed     G. Recent repairs or maintenance performed     H. Change in flow rates or water quality			
Description			

5. STORAGE TANKS AND TOWERS	☐ No issues       Not Applicable
A. Evidence of animals/insects in tank	☐ I. Recent tank repairs
B. Tank vent not downturned/screened	J. Tank is isolated
C. Tank access hatch has no water tight seal	K. Incomplete inspection recommendations
D. Tank sample tap condition E. Tank deterioration or rust noted	L. Incorrect operation of level control valves, altitude valves, and
	related appurtenances  M. Tank leaking or holes in tank
F. Tank maintenance practices not followed G. Low disinfectant residuals	☐ N. Debris in tank
H. Debris in fank overflow pipe	O. Tank hatch not locked
and the second of the second o	P. Evidence of vandalism/tampering
ate - last inspection of vents and hatches:	Q. Combined tank inlet/outlet
ate - last sanitary tank inspection:	R. Other
ate - last tank cleaning:	
escription	
. BLADDER AND PRESSURE TANKS  A. Air/water tanks; air added recently	
B. Pressure tank not on main line C. If "A" is checked, is air filter dirty	E. Bladder of bladder tank ruptured or waterlogged
Description	F. Other:
7. PUMPING FACILITIES	☐ No issues ☑ Not Applicable
A. Pump Facility subject to flooding	D. Electrical systems for pumps
B. Pump maintenance	☐ E. Low pressures due to pumping facilities
C. Leaks around pump seals	F. Other
escription	
	7
DISTRIBUTION SYSTEM	☐ No issues
A Any unprotected cross connection	H. Recent flushing of fire hydrants or blow-offs
B. Submerged air-relief/air-vacuum valve	1. Improper operation of pumps or valves
C. Any recent construction activity	☑ J. Recent main breaks or leaks
D. New service connections recently added	<ul> <li>         ☐ K. Recent pump or valve failure     </li> <li>         ☐ L. Illegal use of hydrants     </li> </ul>
E. Flushing procedure not followed  F. Lowlinadequate disinfectant residuals	M, Excessive water hammer
G. Standing water/debris in valve vault	N. Other
escription -	LI THE WATER
<ol> <li>A home owner near the well has contacted the house throught the water line and that mud ba</li> </ol>	e operator to inform them of possible mud or other contaminants entering his cks up into his house. There is patch of much greener grass between the we well. This may indicate a possible leak in the line leading to the home.

9. MONITORING	No issues  □ Not Applicable	
□ A. Residuals recorded daily     □ B. Daily CT/Turbidity records     □ C. Unusual chemistry trending     □ D. GWR 4-log monitoring records     □ E. Approved monitoring equipment	□ F. Equipment calibration records     □ G. Fire event     □ H. CT calculation records     □ I. Chlorine monitoring frequency     □ J. Other:	ŀ
Description	-4	
	~	
10. ADDITIONAL INFORMATION-PHOTOGRAPHS		
	0	



Photograph #1: Date: November 14, 2022 By: Dalten Young

System: Misty Mountain PWS Location: Topo Drive

Description: View of the well head and white pipe near

well head.

Corrective Action: Use this space to describe corrective action(s) taken with completion date(s) and/or proposed corrective action(s) with planned completion date(s). PWS must notify DNR Regional Office after completing each scheduled corrective action.

By DATE+30

- 1: Check the seal on the well head to ensure that there are no cracks or defects in the seal.
- 2. Tighten the bolts on the well head to ensure no contaminants can enter the well.
- 3. Invesitage the white pipe located near the well located, as pictured in Photo #1, to identify what the pipe leads to. Certain set back distances need to be met per Missouri Safe Drinking Water Regulations:
  - a. Waterwater lagoons 300 feet
  - b. Sewage pumping station 100 feet
  - c. Sanitary sewer lines 50 feet
  - d; Pits, sumps, or holes 50 feet
  - e. Septic tanks 300 feet
- Excavate the area around the well to inspect the pittess adapter and replace if needed.
- Investigate the possible leak near the well and possibly the repair or replace the line.

- If after the sanitary defects have been addressed and the system keeps having E Coli. positive samples, emergency chlorination will need to be added to the system.
- 7. If the system fails to address the sanitary defects by DATE 30, the Department will require mandatory chlorination to treat the water by DATE 50.
  - If chlorination is put on the well, the system will need to have a licensed engineer conduct an engineer report on the system to verify that the changes to the system will not lessen the water quality.

Certification: I hereby certify that the information contained herein is true, accurate and complete to the best of my knowledge and belief.

ASSESSOR NAME (TYPE OR PRINT)

Dalten Young

ASSESSOR SIGNATURE

ASSESSOR SIGNATURE

Dalten.young@dnr.mo.gov

Submit this completed form within 30 days of notification to the appropriate Missouri Department of Natural Resources regional office.

See website for map: http://dnr.mo.gov/regions/ or call the Public Drinking Water Branch at 573-751-1077 for assistance,

780-xxxx (11-19)



Missouri Department of Natural Resources Water Protection Program - Public Drinking Water Branch

Revised Total Coliform Rule Level 1 Assessment Required

Date of Report: September 30, 2022

PWS Name: MISTY MOUNTAIN PWS-TIGGER LN 2

PWS ID: MO3036363 County: Pulaski

LORI JEAN 203 N CLAY ST #615 PO BOX 615 MARSHFIELD, MO 65706

Please notify us of any name or address changes

MISTY MOUNTAIN PWS public water system (PWS) has triggered a Level 1 assessment for the September 2022 monitoring period.

Treatment Technique Trigger: Level 1 Assessment Required for Multiple Total Coliform Positive Samples.

The PWS has exceeded the level 1 assessment treatment technique trigger as specified in 10 CSR 60-4,022(9)(A)1.B. For systems collecting fewer than 40 samples per month, two or more total coliform positive samples exceeds the treatment technique trigger requiring a Level 1 assessment.

## Required Actions:

1. Read the enclosed fact sheet on the Revised Total Coliform Rule.

2. Refer to and follow the instructions on the enclosed "Level 1 Assessment Form".

Make a copy of the completed assessment form and retain it for your records.

4. Submit the completed assessment form with corrective actions taken so far and any requests for additional time back to the Department's Central Field Operations at the address given below within 30 days from the date of this letter for review and approval. Any request for additional time will require Department approval and a signed "Schedule of Compliance."

5. If a schedule of compliance is issued for any corrective actions requiring longer than 30 days to complete, notify the Department's Central Field Operations after completing each scheduled corrective action.

After the assessment form and all documented corrective actions completed are reviewed and approved, the
Department's Central Field Operations will send a closure letter for the assessment and completed schedule of
compliance to be retained in your records.

For assistance with the assessment or corrective actions, contact the Central Field Operations at 573-522-3322, 1101 Riverside Dr, Jefferson City, MO 65102-0176.



Missouri Department of Natural Resources Water Protection Program - Public Drinking Water Branch

Revised Total Coliform Rule Level 1 Assessment Instructions

What is an assessment? When total coliform sample results indicate a Public Water System (PWS) may be vulnerable to contamination, the PWS must perform an assessment (Level 1 or Level 2) and FIND AND FIX ANY "SANITARY DEFECTS." A sanitary defect can provide a pathway of entry for microbial contamination into the distribution system or indicate imminent failure in an existing barrier (e.g., vent missing or unscreened vent on wellhead, sanitary seal on wellhead has holes in it, storage tank with openings allowing possible access by birds, etc.).

## THERE ARE FIVE BASIC ELEMENTS TO INVESTIGATE DURING AN ASSESSMENT:

- Unusual events that may affect distributed water quality or indicate that distributed water quality was impaired;
- Changes in distribution system maintenance and operation, including water storage;
- Water source treatment methods that affect distributed water quality;
- Inadequacies in sample sites, sample collection procedures and sample processing; and
- Existing water quality monitoring data.

A Level 1 assessment will be conducted by the PWS. A Level 2 assessment will be conducted by the Department.

- The Level 1 Assessment must be conducted by personnel qualified to operate and maintain the water system's facilities.
- The water system has 30 days from the date of this notice to complete the assessment, correct any sanitary defects found, and submit the completed assessment form to the appropriate regional office. For sanitary defects found but NOT fixed within 30 days, the system must have a Schedule of Compliance approved by the Department, which includes a proposed completion date for all incomplete corrective actions. After completing each scheduled corrective action, the system must notify the Department to avoid violations. Throughout the assessment process, systems should consult with the Department to discuss progress.

Section A is broken into seven subsections relating to the following specific areas of a PWS: general, sampling sites and sampling protocol, distribution system, storage tanks and towers, bladder and pressure tanks, treatment process, and source(s) (well, surface or purchased water). Each subsection contains questions specific to that heading which should be answered by checking the box next to the question if applicable. A checked box should be considered a potential issue and the box under Section B- Description of Occurrence and Section C- Corrective Action should be completed.

When considering Subsections A through F, answer the questions in relation to what was occurring in the system at the time of the positive sample, not what normally occurs or what has occurred in the past. The purpose of these questions is to determine the reason for the current positive sample.

If you are unsure of what is being asked or do not know how to answer one of the questions, you are encouraged to contact your regional office for further assistance.

You must verify the information provided in the form is accurate and correct. Please print your name and sign and date the form. Once completed, make a copy for your record and submit completed Level 1 assessment form to the appropriate regional office.

If the Department determines the assessment is insufficient, the Department will send written notification to the PWS. The PWS must consult with the Department within 14 days of receiving written notification of an insufficient assessment.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM — PUBLIC DRINKING WATER BRANCH

# REVISED TOTAL COLIFORM RULE LEVEL 1 ASSESSMENT FORM

FOR OFFICE U			
DATE RECEIVED	APPROVED? Yes No		
CONDUCTED VIA PHONE	WITH WATER SYSTEM		
MODNE REVIEWER	DATE APPROVED		

		000	MODNER	EVIEWER	DATE APPROVED	
PUBLIC WATER SYSTEM (PWS) INFORMATI	on T	<b>在1975年的</b>		o version is	3. m. vi 30	
PWS NAME MISTY MOUNTAIN PWS county Pulaski			PWS 10 NUMBER MO3036363			
			MONTHLY COMPLIANCE PER SEPTEMBER 2	and the second s	ĭ	
REASON FOR LEVEL 1 ASSESSMENT			NOTIFICATION DATE OF LEV 9/30/2022	ÆL 1 ASSESSMENTT	RIGGER	
ROUTINE SAMPLES TOTAL COLIFORM-POSITIVE (#):	REPEAT SAMPLES TOTAL COL	IFORM-POSITIVE (#):	VALID REPEAT SAMPLES WATER SYSTEM FAILED TO COLLECT (#):			
INSTRUCTIONS:	and the second of the second o					
Section A, Sanitary Defect Checklist: Reviet contamination identified during the assessrissues" in that subsection. Check "Not Application B, Description of Occurrence: Prov Section C, Corrective Action: Provide corrective actions for issues identified in secompleting each scheduled corrective action Return this form to appropriate department Retain a copy of this completed assessment	nent. If no potential licable" if the section vide explanation and active actions and datections A and B. Notifier.  It regional office with the control of	cause of contamination does not apply to the Pi additional information for s completed or provide y the appropriate Depar hin 30 days (from notific	was identified in a s NS. or any issues identifi proposed timefram tment of Natural Re	ubsection, ch ied in Section ie for complet	eck the box next to "No A. tion of outstanding	
Section A - Sanitary Defect Checklist Have				14.34 (m. m.		
1. GENERAL	No issu	es				
A. Loss of pressure (<20 psi) or pressure  B. Operation/maintenance activities that contamination  C. Signs of vandalism/forced entry into v storage	t could introduce	E. Recent distribut F. Power Loss Z. Other:	s of unsanitary cond ion system main rep		ump pulled	
2. SAMPLING SITES AND SAMPLING PROTO	OCOT 140 1221		tmospheric vacuum	hreaker	300	
A. Windy or raining during sampling B. Change in conditions at sample site C. Yard hydrant/frost-proof spigot used D. First month of operation following sti E. Vegetation resting up against sample F. Sample close to ground/difficult to sai G. Tap not disinfected and flushed before H. Hot/cold (swivel/auto sensing) mixing I. Untrained or inexperienced sample co	tap mple re sampling ; faucet	K. Point of use trei location L. Unclean sample M. Leaking tap or N. Sampling error O. Tap on a dead-o	rtment (water softe tap erratic flow	ner or ca <i>r</i> trid <sub>i</sub>	ge filtration) at sampling	
3. DISTRIBUTION SYSTEM	☐ No iss	ues				
A. Any unprotected cross connection     B. Submerged air-relief/air-vacuum valve     C. Any recent construction activity     D. New service connections recently add     E. Low/inadequate disinfectant residuals     F. Standing water/debris in valve vault     G. Recent flushing of fire hydrants or blo	ded S	H. Improper opera I. Recent main bre J. Recent pump or K. Illegal use of hy L Excessive water Z. Other:	valve failure drants	lves		
4. STORAGE TANKS AND TOWERS	Na isst					
A. Evidence of animals/insects in tank     B: Tank vent not downturned/screened     C. Tank access hatch has no water tight:     D. Tank maintenance practices not follo     E. Tank déterioration or rust noted  Date - last inspection of vents and hatches:  Date - last sanitary tank inspection:  Date - last tank cleaning:  280-2636 (04-16)		F. Low disinfectan G. Debris in tank of H. Recent tank rep I. Incorrect opera appurtenances J. Tank leaking or K. Debris in tank L Evidence of van	verflow pipe vairs tion of level control noles in tank	valves, altituc	de vaíves, and related	

5. BLADDER AND PRESSURE TANKS	No issue	s Not Applicable	
A. Air/water tanks: air added recently		C. Bladder of bladder tank ruptu	ired or waterlogged
B. If "A" is checked, is air filter dirty		Z Other:	And Carrier
6. TREATMENT PROCESS	☐ No issues	Not Applicable	
A. Inadequate disinfection		G. Change in flow rates or water	r quality
B. Interruption in treatment/power loss		H. Meters not recently/properly	A SALA ALTONOMIA
C. Chlorine/Turbidity meters out of range		I. Treatment bypassed	Serveda Sa
D. Change in chemical dosage		J. Treatment added or changed	
E. O and M procedures not followed	- 1	K. Softener serviced/salt added	
F. Recent repairs or maintenance performed		Z. Other:	
7, SOURCE(5)			
WELLS:	No issues	☐ Not Applicable	
A. Defective/damaged well cap/well seal		G. Potential source of contamin	ation near well
B. Damaged/unscreened well vent		H. Damaged well casing	
C. Floodwater/run-off inundation near well		i. Damaged pitless adaptor	
D. Well recently repaired/wellhead opened		J. Missing/damaged grout seal	
E. Unplugged abandoned well in area		Z, Other:	
F. Unprotected opening in wellhead/pump	0.0		
SURFACE WATER/GWUDISW:	No issue		
A. Recent flooding or heavy rainfall		<ul> <li>D. Damaged intake or spring bo</li> </ul>	ox .
B. Change in source water quality		Z. Other	
<ul> <li>C. Any potential source of contamination near s</li> </ul>	ource		
PURCHASED WATER:	No issues	Not Applicable	
A. Water quality issues with supplier	1	Z. Other:	
Section B - Description of Occurrence: Use this sp support your findings (i.e. water quality and press)			
Section C - Corrective Action: Use this space to de planned completion dates. Notify your local region			
Please Note: Exceeding a second Level 1 treatme			
Certification: I hereby certify that the information			
NS CONTACT NAME (TYPE OR PRINT)	PWS CONTAC	T OFFICIAL TITLE	PWS CONTACT TELEPHONE WITH AREA CODE
NS CONTACT SIGNATURE	gue cora-	T EMAIL ADDRESS	DATE
is well with the same of the s	PYVS LUNTAL	TI ENVIL PEUNESS	DANE
Submit this completed form within 30 days of not See website for map: <a href="https://dnr.mo.gov/documer">https://dnr.mo.gov/documer</a> 751-1077 for assistance.			

AC



Missouri Department of Natural Resources Water Protection Program - Public Drinking Water Branch

Revised Total Coliform Rule Level 2 Assessment Required

Date of Report: August 19, 2022

PWS Name: MISTY MOUNTAIN PWS

PWS ID: MO3036363 County: Pulaski

TRAVIS BLEVINS 15405 TEXAS RD ST ROBERT, MO 65584

Please notify us of any name or address changes

MISTY MOUNTAIN PWS public water system (PWS) has exceeded the Level 2 assessment treatment technique trigger for the August 2022 monitoring period.

## 2B LEVEL 2 ASSESSMENT, MCL TRIGGERED (RTCR)

Treatment Technique Trigger:

The public water system has exceeded the *E. coli* MCL as specified in 10 CSR 60-4.022(9)(A)2.A. A PWS exceeding the *E. coli* MCL with one or more *E. coli*-positive routine or repeat sample(s) or failure to collect all repeat samples following an *E. coli* positive routine sample has exceeded the treatment technique trigger requiring a Level 2 assessment.

## Required Actions:

1. Read the enclosed fact sheet on the Revised Total Coliform Rule.

Contact the Department's Central Field Operations at 573-522-3322 to schedule a "Level 2 Assessment" if not already contacted or completed by the Department.

3. After the Level 2 assessment is conducted, the Department's Central Field Operations will provide you a "Schedule of Compliance" if any sanitary defects are identified during the assessment detailing corrective actions required to be completed within 30 days from the date that the assessment was triggered.

 If a schedule of compliance is issued for any corrective actions requiring longer than 30 days to complete, notify the Department's Central Field Operations after completing each scheduled corrective action.

After the assessment form and all documented corrective actions completed are reviewed and approved, the
Department's Central Field Operations will send a closure letter for the assessment and completed schedule of
compliance to be retained in your records.

For assistance with the assessment or corrective actions, contact the Central Field Operations at 573-522-3322, 1101 Riverside Dr, Jefferson City,

(Page 2 of 2)

() (± () (± () Missouri Department of Natural Resources
Water Protection Program - Public Drinking Water Branch

Revised Total Coliform Rule Level 2 Assessment Instructions

What is an assessment? When total coliform sample results indicate a public water system (PWS) may be vulnerable to contamination, the PWS must perform an assessment (Level 1 or Level 2) and FIND AND FIX ANY "SANITARY DEFECTS." A sanitary defect can provide a pathway of entry for microbial contamination into the distribution system or indicate imminent failure in an existing barrier (e.g., vent missing or unscreened vent on wellhead, sanitary seal on wellhead has holes in it, storage tank with openings allowing possible access by birds, etc.).

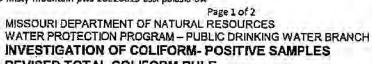
#### THERE ARE FIVE BASIC ELEMENTS TO INVESTIGATE DURING AN ASSESSMENT:

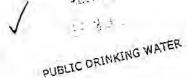
- . Unusual events that may affect distributed water quality or indicate that distributed water quality was impaired;
- · Changes in distribution system maintenance and operation, including water storage;
- · Water source treatment methods that affect distributed water quality;
- · Inadequacies in sample sites, sample collection procedures and sample processing; and
- Existing water quality monitoring data.

A Level 1 assessment will be conducted by the PWS. A Level 2 assessment will be conducted by the Department.

- The Level 2 Assessment must be conducted by the Department or a party approved by the Department in coordination with personnel qualified to operate and maintain the water system's facilities.
- You have 30 days from the date of this notice to correct any sanitary defects found during the Level 2 assessment, to the Department's Central Field Operations. For sanitary defects found but NOT fixed within 30 days, the PWS must enter a Schedule of Compliance, with the approval of the Department, which includes a proposed completion date for all incomplete corrective actions. After completing each scheduled corrective action, the PWS must notify the department to avoid violations.

mo3036363-misty-mountain-pws-20220819-ussi-pulaskl-dw





	y Mountain PW	S	ID# MO30:	36363 County:	Pulaski			
Sample Resul	Its via: Email			Date Received	8/18/20	22		
-		Reno	rt of Total Coll	iform Positive Samples				
Samuel	Date Collected		i salaz ar a l	A CONTRACTOR OF THE CONTRACTOR	Colife	orm A/P	Ch	lorine
Sample Type	m/d/yyyy	Lab#	Site ID	Location Address	TC-	E Coli	Free	Tota
Routine	8/16/2022	OÉ718717	TCR	23249 Topo	Ъ	P	NA	NA
Repeat - OR	08/18/2022	OE719860	TCR	23249 Topo	P	P	N/A	N/A
Repeat - UP	08/18/2022	OE719862	TCR	23249 Topo	P	P	N/A	N/A
Repeat - DN	08/18/2022	OE719863	TCR	23249 Торо	P	P	N/A	N/A
GW Source	08/18/2022	OE719861	WL20295	Topo Well	P	P	N/A	N/A
Other								
Other					4	00		
Diher	'u =======	72.			1		i	
Person Called:	Travis Blevins			Phone: 573-855-2769	Date: 0	8/18/2022		
	quired to collect re	neat samples by	ŗ.		1			
	population <1,000			If YES, PWS have 4	l on treats	nent? 🔯	No IT	Yes
				Not Applicable	tog accas	ione. Pa		100
out respond out	white obbits are in-		and the second second second	or COMMENTS				
				epeat samples came back E. coli mediately before trying to collec				
			*			11:20		
200				nent will be required) Date of pre	10 m 1 1 1 1 1			A
E. coli MCL V	notation Leve	ei 1 11 Inger-M	ulople TC Positive	s Level 1 TT Triger-Failure to	Colect A	Repeal S	samples	
PDWB notified/cop	pied on: (d	ate) (Note: 2+ R	TCR TT exceeda	nces in 12 months or E.coli positive	e will requi	e Level 2	Assessm	ent)
	Grou	and Water Rui	le & Triggered \$	Source Water Sample Require	ments			
	ater System (Go to	-	7.1	chased water system (Go to #2)	7-010-	urface Wa	ter only (S	STOP)
	System: is Primary							
) Does Ground	Water System prov	vide 4-Log treats	ment? 🔲 YES (S	TOP) NO (Triggered source	water sam	pling requ	ired. Go t	o #5.)
If Primary (selle	er) is not a 4-log sy	stem, the secon	dary system (pure	haser) must notify the Primary of t	ne Coliforn	sample s	vithin 24-h	iours.
				sample from EACH well active t				
List the Primary	y (seller) Groundwa	iter System(s) a	nd ID#'s here(if a	pplicable): '			- 1	
	Arri Barriot and	Favor V. FW.	ct Triggered Source	ce Water Samples: (Go to	200	-		- 7

Coliforn Air   Coli	- 1						9				8,
Coliforn Air   Coli							3		1		
Coliforn APP   Coli		455					Z				i
Coliform ArP   Coli							1				
Coliforn APP   Coli		# 027	D9(6	21	E. Coli		H CIPT		Desc	21	E. Coli
Coliforn AP			-1-0	Co	9tA molil		4441		ele ()	otiloO	SIA mi
CET19861 08/18/2022   P P   CET09	-		:JleW			] [		II-M	*		
CET19861 08/18/2022   P P   CET08   Cellional Well samples required)   CET19861 08/18/2022   P P   Cellional Well samples required (if required)   Cellional Well:   Cellio	.)		-							<del></del>	12. 21
CE719861 08/18/2022 WL20295 P P   Californial Wells amples required   TC E.col	1					r			<del></del>	-	-
CE719861 08/18/2022 WL20295 P P   Californial Wells amples required   TC E.col		OE/18000	7707/91/90	34		+ 1	-   -	<del></del>			
Lab #   Usic   Weil # of name   TC   E. Col						t		_			-
Lab # Date Vell # of name TC E. Coll   P P P P P P P P P P P P P P P P P P					4.5	- f		-	ļ		
Lab #   Date   Well # of name   TC   E. Coll				-		- 1	-	_	1		
Lab #   Date   Well # of name   TC   E. Coll							*****				
Lab # Date Well # of name TC E.Coil  E719861 08/18/2022 WL20295 P P P P P P P P P P P P P P P P P P P	+				- 14 - 14					ור	E. Coll.
Lab # Usite Well # of name TC E.Coil  Lab # Usite Well # of name TC E.Coil  Lab # Neme / Location: WL20295 / Topo Well  Additional Triggered Source Water Monitoring (if required)  Additional Triggered Source Water Monitoring (if required)  Well: Topo Well (WL20295)  Well: Topo Well (WL20295)		# qe7	ate□			1	# qe7		- StsCl		
Lab # Date Well # of hame TC E.Coli   Calif.   Date Well # of hame TC E.Coli   Date Well # of hame TC E.Coli   Date Well # of hame   Date Well #   Name / Location: WL20295 / Topo Well		oT :lleW	Topo Well (WL2029	(		7 1	V	ileW			
E719861 08/18/2022 WL20295   TC E.Coii		daiM	SW9 nistruoM ytail	-							
E719861 08/18/2022 WL20295   TC E.Coii			DA	1 180013	nggered 5	w sonuce w	у Виноняюм тэте	n required			
Lab # Usite Well # d' Name TC E.Coil  E719861 08/18/2022 W.20295 P P  F719861 08/18/2022 W.20295 P P  F2719861 08/18/202 W.20295 P P  F2719861 08/18/202 W.2029 P P  F2719861 08/18/202 W.2029 P P  F								W -1(212)	-		
Lab # Usite Well # d' Name TC E.Coil  E719861 08/18/2022 W.20295 P P  F719861 08/18/2022 W.20295 P P  F2719861 08/18/202 W.20295 P P  F2719861 08/18/202 W.2029 P P  F2719861 08/18/202 W.2029 P P  F	I #IIIC	I Marine / Location: V	Odo i / ceznzavi u	119							
EX18891 08/18/5052 M/S05392 b b   Cap t					m) A 🔯	e ç səA	nes llew lenodibb	ibles required)	1		
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E218894 08/18/2022 M/20289 b b   Tab # 1966 AAGII # 01 UBUIG 1C E COI						-					
E118894 08/18/5055 M/50539 b b   Tage Aveil # 01 Usune 1C E COII		1.				1			-		-
Tab # Date Aveil # Or Date To E. Coll	Z3(	19861 08/18/20	BYZOZZ WLZC	96	Ь	d					
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Office America	-1	etect # dt	o # IleM ats	amel	Coliforn		# 461	als0	amen in # llaW	-	<b>Ч</b> А ш



Missouri Department of Natural Resources Water Protection Program - Public Drinking Water Branch

Revised Total Coliform Rule Level 2 Assessment Required

Date of Report: November 2, 2022 PWS Name: MISTY MOUNTAIN PWS PWS ID: MO3036363 County: Pulaski

LORI JEAN 203 N CLAY ST #615 PO BOX 615 MARSHFIELD, MO 65706

Please notify us of any name or address changes

MISTY MOUNTAIN PWS public water system (PWS) has exceeded the Level 2 assessment treatment technique trigger for the October 2022 monitoring period.

#### 2B LEVEL 2 ASSESSMENT, MCL TRIGGERED (RTCR)

Treatment Technique Trigger:

The public water system has exceeded the *E. coli* MCL as specified in 10 CSR 60-4.022(9)(A)2.A. A PWS exceeding the *E. coli* MCL with one or more *E. coli*-positive routine or repeat sample(s) or failure to collect all repeat samples following an *E. coli* positive routine sample has exceeded the treatment technique trigger requiring a Level 2 assessment.

#### Required-Actions:

1. Read the enclosed fact sheet on the Revised Total Coliform Rule.

Contact the Department's Central Field Operations at 573-522-3322 to schedule a "Level 2 Assessment" if not already contacted or completed by the Department.

3. After the Level 2 assessment is conducted, the Department's Central Field Operations will provide you a "Schedule of Compliance" if any sanitary defects are identified during the assessment detailing corrective actions required to be completed within 30 days from the date that the assessment was triggered.

4. If a schedule of compliance is issued for any corrective actions requiring longer than 30 days to complete, notify the Department's Central Field Operations after completing each scheduled corrective action.

After the assessment form and all documented corrective actions completed are reviewed and approved, the
Department's Central Field Operations will send a closure letter for the assessment and completed schedule of
compliance to be retained in your records.

For assistance with the assessment or corrective actions, contact the Central Field Operations at 573-522-3322, 1101 Riverside Dr., Jefferson City,

(Page 2 of 2)

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Missouri Department of Natural Resources Water Protection Program - Public Drinking Water Branch

Revised Total Coliform Rule Level 2 Assessment Instructions

What is an assessment? When total coliform sample results indicate a public water system (PWS) may be vulnerable to contamination, the PWS must perform an assessment (Level 1 or Level 2) and FIND AND FIX ANY "SANITARY DEFECTS." A sanitary defect can provide a pathway of entry for microbial contamination into the distribution system or indicate imminent failure in an existing barrier (e.g., vent missing or unscreened vent on wellhead, sanitary seal on wellhead has holes in it, storage tank with openings allowing possible access by birds, etc.).

#### THERE ARE FIVE BASIC ELEMENTS TO INVESTIGATE DURING AN ASSESSMENT:

- Unusual events that may affect distributed water quality or indicate that distributed water quality was impaired;
- · Changes in distribution system maintenance and operation, including water storage;
- Water source treatment methods that affect distributed water quality;
- Inadequacies in sample sites, sample collection procedures and sample processing; and
- Existing water quality monitoring data.

A Level 1 assessment will be conducted by the PWS. A Level 2 assessment will be conducted by the Department.

- The Level 2 Assessment must be conducted by the Department or a party approved by the Department in coordination with personnel qualified to operate and maintain the water system's facilities.
- You have 30 days from the date of this notice to correct any sanitary defects found during the Level 2 assessment, to the Department's Central Field Operations. For sanitary defects found but NOT fixed within 30 days, the PWS must enter a Schedule of Compliance, with the approval of the Department, which includes a proposed completion date for all incomplete corrective actions. After completing each scheduled corrective action, the PWS must notify the department to avoid violations.

mo3036363-misty-mountain-pws-20221021-ussi-pulaski-dw-1



Page 1 of 2
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM - PUBLIC DRINKING WATER BRANCH
INVESTIGATION OF COLIFORM- POSITIVE SAMPLES

REVISED TOTAL COLIFORM RULE

Sample Recu	ty Mountain PW		ID# MO30		TANTA			
oample Mesu	lts via: Email	-	<del> </del>	Date Received	10/21/2	022		*
		Repo	rt of Total Col	iform Positive Samples		_	-	
Sample Type	Date Collected	Lab#	Site ID	Location Address	Colif	om A/P	Ch	lorine
	m/d/yyyy	L80 #	Site ID	200000000000000000000000000000000000000	TC	E Cali	Free	Tota
Routine	10/19/2022	749458	04	24443 tigger	P	A	NA	N
Repeat - OR	10/24/2022	751621	04	24443 tigger	A	A	NA	N/
Repeat - UP	10/24/2022	751622	TCR	24410 tigger	A	A	NA	N
Repeat - DN	10/24/2022	751623	TCR	24423 tigger	A	A	NA	N
SW Source	10/24/2022	751620	WI20298	Well 4	A	A	NA	N
Other	7					9		
Other	J							
Other	,							
erson Called:	Lori Jean			Phone: 417-425-9343	Date: 1	0/21/2022		
ate PWS was m	equired to collect re-	peat samples	by:					
	population ≤1,000 v				Log treat	ment?	No 🔲	Yes
Jual Purpose Sa	imple approved for t	his GW Syster	m? No Ye	s Not Applicable				
		***	ACTIONS and	or COMMENTS			***	
opo weli samş	oles would be take	D,		ample results for Tigger Well		return ca	MI IO COL	1111111
topo weti samş	oles would be take	G.				retuii ca		
			evel 1 or 2 Assessi	ment will be required) Date of pr				
	Exceeded? ⊠ No	Yes (Le	evel 1 or 2 Assessi Multiple TC Positiy	ment will be required) Date of pr	revious RT	CR excee	dance;	
TCR TT Triger!	Exceeded? ⊠ No Violation □ Leve	∑ Yes (Le	Multiple TC Positiv	ment will be required) Dafe of pr	revious RT to Callect	CR excee	dance; Samples	
TCR TT Triger!	Exceeded? ⊠ No /iolation □ Leve pied on: (da	Yes (Le 1 1 TT Triger-Nate) (Note: 2+	Multiple TC Positiv	ment will be required) Dafe of pr es Level 1 TT Triger-Failure ences in 12 months or E.coli positi	revious RT to Collect ve will requ	CR excee	dance; Samples	
TCR TT Triger! B. coli MCL V  DWB notified/co	Exceeded? ⊠ No /iolation □ Leve pied on: (da	Yes (Le 1 1 TT Triger-1 ate) (Note: 2+	Multiple TC Positiv RTCR TT exceed: le & Triggered S	ment will be required) Date of pr es ∐Level 1 TT Triger-Failure	revious RT to Collect ve will requ	CR excee	dance; Samples 2 Assessi	: meni)
TCR TT Triger I  E. coli MCL V  DWB notified/co	Exceeded? ⊠ No /lolation □ Leve pied on: (da Groun	Yes (Let 1 Triger-late) (Note: 2+	Multiple TC Positiv RTCR TT exceeds le & Triggered S Secondary/pure	ment will be required) Dafe of pr es Level 1 TT Triger-Failure ances in 12 months or E.coli positi Source Water Sample Require	revious RT to Collect ve will requerements	CR excee All Repeat uire Level	dance; Samples 2 Assessi	: meni)
TCR TT Triger!  E. coli MCL V  DWB notified/co.  Ground W  If Secondary S	Exceeded? No Nolation Leve opied on: (da Groun Nater System (Go to	Yes (Let   1 TT Triger-let   (Note: 2+	Multiple TC Positiv RTCR TT exceed: le & Triggered \$ Secondary/puro W (go to #4)	ment will be required) Date of pres Level 1 TT Triger-Failure ances in 12 months or E.coli positions are with the second	revious RT to Collect ve will requerements I I If S V: STOP)	CR exceed All Repeat uire Level o	dance; Samples 2 Assessi ter only (	sment)
TCR TT Triger I  E. coli MCL V  DWB notified/co.  Ground W  If Secondary S  Does Ground  If Primary (sell-	Exceeded? No Nolation Leve pied on: (da Groun Nater System (Go to System: is Primary Water System provi	Yes (Let 1 Triger-late) (Note: 2+  ad Water Ru #3) [ system [ Gide 4-Log treastern, the second	Multiple TC Positiv RTCR TT exceeds  le & Triggered S  Secondary/pure W (go to #4) tment?  YES ( pudary system (pu	ment will be required) Date of press Level 1 TT Triger-Failure ences in 12 months or E.coli positions and the second process of the	revious RT to Collect ve will requerements In If S Y: STOP) e water sa	CR exceed All Repeat uire Level to urface Wa mpling req rm sample	dance; Samples 2 Assessi ter only (i uired, Go	sment)
E. coli MCL v DWB notified/co. Ground W	Exceeded? No Nolation Leve pied on: (da Groun Nater System (Go to System: is Primary Water System provi	Yes (Let   1 Triger-let   1 Triger-let   1 Triger-let   2 +	Multiple TC Positiv  RTCR TT exceed:  le & Triggered \$  Secondary/pure  W (go to #4)  tment?  YES (  pridary system (pure)  lires source wate	ment will be required) Date of pries Level 1 TT Triger-Failure ances in 12 months or E.coli positions and the second seco	revious RT to Collect ve will requerements In If S Y: STOP) e water sa	CR exceed All Repeat uire Level to urface Wa mpling req rm sample	dance; Samples 2 Assessi ter only (i uired, Go	sment) STOP

mo3036363-misty-mountain-pws-20221023-ussi-pulaski-dw-1 Page 2 of 2

		Lillia	y PWS Nam	е	,			Prima	ry PWS Name		
l al	b#	Date	Well # o	r name		om A/P	Lab#	Date	Well # or name		form A/P
-			THOREN	, morno	TC	E. Coli		540	TION IN CONTROL	TC	E. Co
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											1
vny soi	urce water :	sample E. C	oli positive ?	□N	□Y	(If yes 5 ac	ditional well sa	mples require	d)	Ť	
Vel#/	Name / Loc	ation:							×	-	-
			Add	litional T	riggerec	i Source Wa	er Monitoring (	(if required)			
		Well	*				····	Wel	į.	-3.0	
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Correct	tive Action r	equired? [	□No	☐ Yes.	(atta	ched docume	ntation as nece:	ssary)			
Vas an	ny of the add	equired? [	çe water san	nple E, C	E, Coli	1 2 3 4 5 we? □ N			Date	1	



Missouri Department of Natural Resources Water Protection Program - Public Drinking Water Branch

Revised Total Coliform Rule Level 2 Assessment Required

Date of Report: November 17, 2022 PWS Name: MISTY MOUNTAIN PWS PWS ID: MO3036363 County: Pulaski

LORI JEAN 203 N CLAY ST #615 PO BOX 615 MARSHFIELD, MO 65706

Please notify us of any name or address changes

MISTY MOUNTAIN PWS public water system (PWS) has exceeded the Level 2 assessment treatment technique trigger for the November 2022 monitoring period.

#### 2B LEVEL 2 ASSESSMENT, MCL TRIGGERED (RTCR)

Treatment Technique Trigger:

The public water system has exceeded the E. coli MCL as specified in 10 CSR 60-4.022(9)(A)2.A. A PWS exceeding the E. coli MCL with one or more E. coli-positive routine or repeat sample(s) or failure to collect all repeat samples following an E. coli positive routine sample has exceeded the treatment technique trigger requiring a Level 2 assessment.

#### Required Actions:

1. Read the enclosed fact sheet on the Revised Total Coliform Rule.

Contact the Department's Central Field Operations at 573-522-3322 to schedule a "Level 2 Assessment" if not already contacted or completed by the Department.

3. After the Level 2 assessment is conducted, the Department's Central Field Operations will provide you a "Schedule of Compliance" if any sanitary defects are identified during the assessment detailing corrective actions required to be completed within 30 days from the date that the assessment was triggered.

4. If a schedule of compliance is issued for any corrective actions requiring longer than 30 days to complete, notify the Department's Central Field Operations after completing each scheduled corrective action.

5. After the assessment form and all documented corrective actions completed are reviewed and approved, the Department's Central Field Operations will send a closure letter for the assessment and completed schedule of compliance to be retained in your records.

For assistance with the assessment or corrective actions, contact the Central Field Operations at 573-522-3322, 1101 Riverside Dr, Jefferson City,

(Page 2 of 2)



Missouri Department of Natural Resources Water Protection Program - Public Drinking Water Branch

Revised Total Coliform Rule
Level 2 Assessment Instructions

What is an assessment? When total coliform sample results indicate a public water system (PWS) may be vulnerable to contamination, the PWS must perform an assessment (Level 1 or Level 2) and FIND AND FIX ANY "SANITARY DEFECTS." A sanitary defect can provide a pathway of entry for microbial contamination into the distribution system or indicate imminent failure in an existing barrier (e.g., vent missing or unscreened vent on wellhead, sanitary seal on wellhead has holes in it, storage tank with openings allowing possible access by birds, etc.).

#### THERE ARE FIVE BASIC ELEMENTS TO INVESTIGATE DURING AN ASSESSMENT:

- Unusual events that may affect distributed water quality or indicate that distributed water quality was impaired;
- Changes in distribution system maintenance and operation, including water storage;
- Water source treatment methods that affect distributed water quality;
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- Existing water quality monitoring data.

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- The Level 2 Assessment must be conducted by the Department or a party approved by the Department in coordination with personnel qualified to operate and maintain the water system's facilities.
- You have 30 days from the date of this notice to correct any sanitary defects found during the Level 2 assessment, to the Department's Central Field Operations. For sanitary defects found but NOT fixed within 30 days, the PWS must enter a Schedule of Compliance, with the approval of the Department, which includes a proposed completion date for all incomplete corrective actions. After completing each scheduled corrective action, the PWS must notify the department to avoid violations.



Michael L. Parson Governor

> Dru Buntin Director

August 23, 2022

Travis Blevins
Rölling Hills PWS
15405 Texas Road
St. Robert, MO 65584

RE: Letter of Warning - Operator Certification

Dear Travis Blevins:

All community and nontransient noncommunity public water systems are required to employ a certified operator to oversee system operations and maintenance. Rolling Hills PWS (MO3036362) is required to have an operator certified at the DS I distribution level or higher. The Missouri Department of Natural Resources records indicate that your system does not have an operator certified at this level and is therefore in violation of Missouri Safe Drinking Water Regulation 10 CSR 60-14.010.

Within 15 days of this notification, Rolling Hills PWS must provide proof to the Department that they have obtained the services of a properly certified operator or enter into a Department approved schedule (corrective action plan) to obtain the services of a certified operator. Failure to comply with these requirements may result in the Department taking further enforcement action against your water system.

If you currently have a properly certified operator in charge of your water system, please contact the Water Protection Program's Public Drinking Water Branch, using the contact information provided at the end of this letter.

If you currently do not have a properly certified operator, your public water system may choose to have an employee obtain operator certification through the Department or you may enter into a contractual agreement with a certified operator to maintain your water system.

If you obtain the services of a certified operator through contract, you are required to submit a copy of the agreement with the operator's name, address, telephone number, and certification number in writing to the Water Protection Program's Public Drinking Water Branch within 15 days of this notification. The agreement shall indicate the responsibilities of the operator including, but not limited to, those listed in Missouri Safe Drinking Water Regulation 10 CSR 60-14.010(4)(F)1.

Travis Blevins Page 2

If you wish to have an employee become certified, you are required to submit a corrective action plan to the Water Protection Program's Public Drinking Water Branch within 15 days of this notification for review and approval. The plan must be on letterhead, signed by a person of authority and dated. The plan must include the name of person to be certified, position and affiliation with the public water system, and a schedule for when the employee will take the certification exam. Information on training courses and examination schedules is located online at <a href="https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/operator-certification">https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/operator-certification</a>. You can also contact the Operator Certification Unit by phone at 800-361-4827 to learn more about certification requirements.

All community and nontransient noncommunity public water systems are required to have a contingency plan for a standby replacement of the chief operator to be available at all times. Examples include a second employee certified at the chief operator level, a mutual assistance agreement with a nearby system, or a prearranged agreement with a contract operator.

Within 15 days of this notification, please contact the Water Protection Program's Public Drinking Water Branch to inform us of your contingency plan for a standby replacement of the chief operator.

If you have any questions regarding this letter, please contact Ms. Jackie Johnson by phone at 573-751-4414, by email at jackie johnson@dnr.mo.gov, or by mail at Department of Natural Resources, Water Protection Program, Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102-0176. Thank you.

Sincerely,

WATER PROTECTION PROGRAM

Lance Dorsey

Compliance and Enforcement Section Chief

LD:jjs

Sebastien Clos-Versailles, Unit Chief, Central Field Operations



#### Missouri Department Of Natural Resources **Public Drinking Water Program** P.O. Box 176



Jefferson City, MO 65102

(573)751-5331

#### **Public Water System Radionuclide Results**

PWS Name:

ROLLING HILLS PWS

PWS ID:

MO3036362

Mail to :

LORI JEAN

County:

PULASKI

PO BOX 615 MARSHFIELD, MO 65706-0000

Please notify us of any

name and address changes

Lab Sample ID:

228-335

Date Collected:

10/18/2022

Time Collected:

Sample Type:

Routine

Location ID:

WL 20293

Location:

WELL#1

Source:

GW

Collector:

Collection Technique:

Laboratory:

ST LOUIS COUNTY DEPT OF HEALTH

Contaminant	Result	MCL Value	Unit of Measure	
RADIUM-228	<1 PCI/L			
COMBINED URANIUM	< 0.67 PCI/L	30	UG/L	
GROSS ALPHA, EXCL. RADON & U	< 3 PCI/L	15	PCI/L	
GROSS ALPHA PARTICLE ACTIVITY	< 3 PCI/L	15	PCI/L	
RADIUM-226	<1 PCI/L			
COMBINED RADIUM (-226 & -228)	<1 PCI/L	5	PCIA	

A result of < (less than) a specified quantity means the concentration was either zero or less than the analytical detection level.

## MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY PUBLIC DRINKING WATER BRANCH PO BOX 176 JEFFERSON CITY MO 65102

RECEIVED

JAN 09 2022

## CHAIN OF CUSTODY AND RADIONUCLIDE ANALYSIS OF WATER SAMPLE PUBLIC DRINK

MO3036362	Ç.		4th Qtr	
ROLLING HILLS P	ws		PULASKI	
	IF NOT INDICATE WHERE AND WH	Y LOCATION CHANGE		
	LL #1	À	ē.	ROUTINE SPECIAL
AMPLE COLLECTED BY:	ollector (Type or use black b)	ALL POINT PEN)	WATER SY DNR OTHER	STEM DAYTIME PHONE #
10-18-22	TIME SAMPLE COLLECTED  0900	☐ PM	TYPE OF WATE	RAW
SHIPPED  HAND DEL	IVERED CARRIER			NUMBER OF CONTAINERS
LINQUISHED BY:	7040			DATE:
DMPLETED BY LABORATORY O	NLY			10/19/22
	PH<2 WITH CONC. NITRIC ACID BY:		LAB. LOG NUMBER	225-335
RADIONUCLIDE	CONCENTRATION (pCi/l	DATE OF ANALYSIS	METHOD OF ANALYSIS	ANALYST
Gross Alpha Particle Activity	23.0	11-1-22	EPA 900.0	ann
Radium-226	1 410	12.13.22	EPA 903.1	as ~
⊋ Radium-228	41.0	12.7.22	EPA 904.0	92
Gross Beta Particle Activity				7
<b>☑</b> Uranium	20.67	10-28-22	EPA 200.8	1/1/1
Radon				
he above analyses were perform	ed by the Saint Louis County Departmen	nt of Health, Environmen	ntal Laboratories.	1967 Assertion ()
Approved by:			Dat ( / T	1e / 23 -
result of <(less than) a specified	quantity means the concentration was e	either zero or less than t	he analytical detection leve	al.
e lest results reported on this for	m show the following:			
No additional test maximum contain	ing is required at this time because the irrant level allowed in drinking water.	concentration of radion.	ulicdes in your water do not	t exceed the
Additional testing	is required because the analysis result	and the same of the same of the		
and 5 kilo			40/7.6	



Michael L. Parson Governor

> Dru Buntin' Director

August 23, 2022

Travis Blevins Charity PWS 15405 Texas Road St. Robert, MO 65584

RE: Letter of Warning - Operator Certification

Dear Travis Blevins:

All community and nontransient noncommunity public water systems are required to employ a certified operator to oversee system operations and maintenance. Charity PWS (MO3036361) is required to have an operator certified at the DS I distribution level higher. The Missouri Department of Natural Resources records indicate that your system does not have an operator certified at this level and is therefore in violation of Missouri Safe Drinking Water Regulation 10 CSR 60-14.010.

Within 15 days of this notification, Charity PWS must provide proof to the Department that they have obtained the services of a properly certified operator or enter into a Department approved schedule (corrective action plan) to obtain the services of a certified operator. Failure to comply with these requirements may result in the Department taking further enforcement action against your water system.

If you currently have a properly certified operator in charge of your water system, please contact the Water Protection Program's Public Drinking Water Branch, using the contact information provided at the end of this letter.

If you currently do not have a properly certified operator, your public water system may choose to have an employee obtain operator certification through the Department or you may enter into a contractual agreement with a certified operator to maintain your water system.

If you obtain the services of a certified operator through contract, you are required to submit a copy of the agreement with the operator's name, address, telephone number, and certification number in writing to the Water Protection Program's Public Drinking Water Branch within 15 days of this notification. The agreement shall indicate the responsibilities of the operator including, but not limited to, those listed in Missouri Safe Drinking Water Regulation 10 CSR 60-14.010(4)(F)1.

Travis Blevins Page 2

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All community and nontransient noncommunity public water systems are required to have a contingency plan for a standby replacement of the chief operator to be available at all times. Examples include a second employee certified at the chief operator level, a mutual assistance agreement with a nearby system, or a prearranged agreement with a contract operator.

Within 15 days of this notification, please contact the Water Protection Program's Public Drinking Water Branch to inform us of your contingency plan for a standby replacement of the chief operator.

If you have any questions regarding this letter, please contact Ms. Jackie Johnson by phone at 573-751-4414, by email at jackie.johnson@dnr.mo.gov, or by mail at Department of Natural Resources, Water Protection Program, Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102-0176. Thank you.

Sincerely,

WATER PROTECTION PROGRAM

Lance Dorsey

Compliance and Enforcement Section Chief

LD:jjs

Sebastien Clos-Versailles, Unit Chief, Central Field Operations

Page 1 of 2

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM - PUBLIC DRINKING WATER BRANCH

INVESTIGATION OF COLIFORM-POSITIVE SAMPLES REVISED TOTAL COLIFORM RULE

PWS: Charity PWS	ID# MO3036361 County:	Pulaski
Sample Results via: Email	Date Received	10/21/2022

		Repo	rt of Total Col	iform Positive Samples	3.14			
Sample Type	Date Collected	Lab#	Site ID	Location Address		orm A/P	-	lorine
ALTERNATION OF THE PARTY OF THE	m/d/yyyy	2.400.00			TC	E Coli	Free	Tota
Routine	10/19/2022	749462	06	11904 hwy pp	P	A	NA	N/
Repeat - OR	10/24/2022	751541	06	11904 bwy pp	A	A	NA	N/
Repeat - UP	10/24/2022	751539	01	18410 charity	A	A	NA	N/
Repeat – DN	10/24/2022	751540	03	11955 hwy pp	A	A	NA	N/
GW Source	10/24/2022	751538	Wi20291	well	A	A	NA	N/
Other	1							_
Other			-			-	-	11-2
Other C-11-4			!	Phone: 417-425-9343	- Date:	0/21/2022		
Person Called:	Lori Jean equired to collect rep	and namelee	h.c	Prione: 417-423-9343	Date:	W/Z 1/Z0ZZ		
	population ≤1,000 v			If YES, PWS hav	44 no treate	ment2 🔀	No 11	Yes
				s Not Applicable	o 7 Log ucco	nonte 24	NO LJ	100
Juai Fulções GE	imple approved for a	nia Ovi Oyala		d or COMMENTS			******	_
0/21/2022 MS	I_I snoke with I			sample taken had come back	TO	bad and and	71.1.7.00	
to take repeat s take those same		the original l	ocation, one ups	tream, one downstream, and				
to take repeat s take those sami	amples; one from to les first thing Mor	the original l	ocation, one ups	tream, one downstream, and				
to take repeat s take those sam 10/26/2022 JT	amples; one from to les first thing Mod Left message for I	the original landay momin nday momin Lori Jean infi	ocation, one ups g- orming of safe s evel 1 or 2 Assess	ample results.  sment will be required) Date of	f previous R	CR excee	dence:	he wil
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to take repeat stake those samp 10/26/2022 JT	amples; one from to les first thing Mod Left message for I	the original landay momin nday momin Lori Jean info	ocation, one ups g- orming of safe s evel 1 or 2 Assess Multiple TC Positiv	ample results.  sment will be required) Date of	f previous R'ure to Collect	CR excee	dence:	he wil
RTCR TT Triger  E. coli MCL  DWB notified/ca	emples; one from the ples first thing Modules first thing Modules for I Left message for I Left message for I Level opied on: (date of the ples	the original Inday morning Lori Jean info  Yes (Li 1 TT Triger-late) (Note: 2+	ocation, one ups g- orming of safe s evel 1 or 2 Assess Multiple TC Positiv RTCR TT exceed	irream, one downstream, and ample results.  Mes Level 1 TT Triger-Fail lances in 12 months or E coli po	f previous R' ure to Collect esitive will requirements	CR excee All Repea	dance: t Sample: 2 Assess	he will
o take repeat sake those samp 10/26/2022 JT: RTCR TT Triger E. coli MCL PDWB notified/ca	emples; one from to les first thing Modules first thing Modules for I Left message for I	the original Inday morning Lori Jean info  Yes (Li 1 TT Triger-late) (Note: 2+	ocation, one ups g- orming of safe s evel 1 or 2 Assess Multiple TC Positiv RTCR TT exceed	irream, one downstream, and ample results.  Iment will be required) Date of the control of the c	one from the	CR excee All Repea	dance: t Sample: 2 Assess	he wil
o take repeat sake those samp .0/26/2022 JT	Exceeded? No Violation Leve Opied on: (da Grour Vater System: is Primary	the original landay morning.  Ori Jean info  Yes (Li  1 TT Triger-  ate) (Note: 2+  and Water Ru  #3) [	ocation, one ups g- perming of safe seconding of safe secondary/pur g-	inteream, one downstream, and ample results.  Interest in 12 months or Ecoli positions in 12 months or Ecoli positions water Sample Required water system (Go to #2 or SW (if SW ONLY, no	one from the	CR excee All Repea	dence: t Sample: 2 Assess	s sment)
o take repeat sake those samp .0/26/2022 JT	emples; one from to les first thing Mon-Left message for I  Exceeded?   Violation   Leve opied on: (days of the court of the cour	the original landay morning.  Ori Jean info  Yes (Li  1 TT Triger-  ate) (Note: 2+  and Water Ru  #3) [	ocation, one ups g- perming of safe seconding of safe secondary/pur g-	inteream, one downstream, and ample results.  Interest in 12 months or Ecoli positions in 12 months or Ecoli positions water Sample Required water system (Go to #2 or SW (if SW ONLY, no	one from the	CR excee All Repea	dence: t Sample: 2 Assess	s sment)
TCR TT Triger  E. coli MCL  DWB notified/col  Solution of Secondary  Does Ground V  Coli Secondary	Exceeded? No Note that thing Months first thing Months I Left message for I  Exceeded? No Note that the sage for I  Exceeded? No No Note that the sage for I  Exceeded? No N	the original Inday morning Lori Jean info  Yes (Late) (Note: 2+  Ad Water Ru  #3) [  System	ocation, one upsignorming of safe safe safe safe safe safe safe saf	inteream, one downstream, and ample results.  Interest in 12 months or Ecoli positions in 12 months or Ecoli positions water Sample Required water system (Go to #2 or SW (if SW ONLY, no	one from the	CCR excee All Repea uire Level	dance: t Sample: 2 Assess	s s s s s s

		Primar	y PWS Nam	e					Prima	ry PWS Name		
ilai	u ar	No.	in man	Called.	Colife	m A/P		120.4	8	Well # or name	Coli	form A/P
£ar	b#.	Date	Well#p	r name	TC	E. Coli		Lab#	Date	yveii # or name	TC	E. Co
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## MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM - PUBLIC DRINKING WATER BRANCH

INVESTIGATION OF COLIFORM- POSITIVE SAMPLES REVISED TOTAL COLIFORM RULE

Sample Resu	lts via: Email			Date Received	11/9/20	22			
				Date Hooding					
•		Repo	rt of Total Coli	form Positive Samples					
Sample Туре	Date Collected m/d/yyyy	Lab#	Site ID	Location Address	Cofff	E Coli	Chlorine Free T		
Routine	11/7/2022	758522	05	18320 Charity	P	A	NA	NA	
Repeat - OR	11/10/2022	760042	05	18320 Charity	A	A	NA	NA	
Repeat - UP	11/10/2022	760043	TCR	18185 charity	A	A	NA	NA	
Repeat - DN	11/10/2022	760044	TCR	18325 charity	A	A	NA	NA	
GW Source	11/10/2022	760041	WL20291	WL20291	A	A	NA.	NA	
Other									
Other						5			
Other									
Person Called:	Lori Jean			Phone:	Date:1	1/9/2022			
ate PWS was r	equired to collect re	peat samples	by:				-		
SW System with	population ≤1,000	with one well?	No ☐ Yes	If YES, PWS have	4-Log treat	ment?	No 🔲	Yes	
GW System with	equired to collect re population <1,000 imple approved for	with one well?	No ☐ Yes m? ☐ No ☐ Yes	s 🔀 Not Applicable	4-Log treat	ment? 🗌	No 🔲	Yes	
GW System with Dual Purpose Sa	population <1,000 ample approved for	with one well? this GW Syste	Mo ☐ Yes m? ☐ No ☐ Yes ACTIONS and	s Not Applicable					
GW System with Dual Purpose Sa 11/9/2022 JT-	population <1,000 imple approved for Spoke with Lori a	with one well? this GW Syste bout TC+ sa	Mo ☐ Yes m? ☐ No ☐ Yes  ACTIONS and mple at site 05. C	s Not Applicable  I or COMMENTS  onfirmed that Dalten had spo					
GW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all	with one well? this GW Syste bout TC+ sa repeat samp	No ☐ Yes  m? ☐ No ☐ Yes  ACTIONS and  mple at site 05. C  les would be take	s Not Applicable  or COMMENTS  onfirmed that Dalten had spontomorrow,	ke with he	r about th	e Misty		
GW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp 11/14/2022 JT	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori	with one well? this GW Syste bout TC+ sa repeat samp to confirm the	No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  aat sample 760042	s Not Applicable  I or COMMENTS  onfirmed that Dalten had spontomorrow.  2 was for the Charity PWS ar	ke with he	r about th	e Misty		
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GW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp 11/14/2022 JT confirmed and	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori I informed of the	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a	No Yes  M? No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  at sample 76004;  t Charity PWS. I	s Not Applicable  I or COMMENTS  onfirmed that Dalten had spontomorrow.  2 was for the Charity PWS ar	ke with he	r about th	e Misty		
SW System with Dual Purpose Sa 1/9/2022 JT- Mountain samp 1/14/2022 JT confirmed and	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori I informed of the	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a	No Yes  M? No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  at sample 76004;  t Charity PWS. I	s Not Applicable  I or COMMENTS  confirmed that Dalten had spontomorrow.  2 was for the Charity PWS are then emailed the monitoring	ke with he	r about th	e Misty		
GW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp 11/14/2022 JT confirmed and	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori I informed of the	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a	No Yes  M? No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  at sample 76004;  t Charity PWS. I	s Not Applicable  I or COMMENTS  confirmed that Dalten had spontomorrow.  2 was for the Charity PWS are then emailed the monitoring	ke with he	r about th	e Misty		
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SW System with Dual Purpose Sa 1/9/2022 JT- Mountain samp 1/14/2022 JT confirmed and	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori I informed of the	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a	No Yes  M? No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  at sample 76004;  t Charity PWS. I	s Not Applicable  I or COMMENTS  confirmed that Dalten had spontomorrow.  2 was for the Charity PWS are then emailed the monitoring	ke with he	r about th	e Misty		
GW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp 11/14/2022 JT confirmed and	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori I informed of the	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a	No Yes  M? No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  nat sample 76004;  t Charity PWS. I	s Not Applicable  I or COMMENTS  confirmed that Dalten had spontomorrow.  2 was for the Charity PWS are then emailed the monitoring	ke with he	r about th	e Misty		
GW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp 11/14/2022 JT confirmed and	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori I informed of the	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a	No Yes  M? No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  nat sample 76004;  t Charity PWS. I	s Not Applicable  I or COMMENTS  confirmed that Dalten had spontomorrow.  2 was for the Charity PWS are then emailed the monitoring	ke with he	r about th	e Misty		
GW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp 11/14/2022 JT confirmed and	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori I informed of the	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a	No Yes  M? No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  nat sample 76004;  t Charity PWS. I	s Not Applicable  I or COMMENTS  confirmed that Dalten had spontomorrow.  2 was for the Charity PWS are then emailed the monitoring	ke with he	r about th	e Misty		
GW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp 11/14/2022 JT confirmed and	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori I informed of the	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a	No Yes  M? No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  nat sample 76004;  t Charity PWS. I	s Not Applicable  I or COMMENTS  confirmed that Dalten had spontomorrow.  2 was for the Charity PWS are then emailed the monitoring	ke with he	r about th	e Misty		
GW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp 11/14/2022 JT confirmed and	population ≤1,000 ample approved for Spoke with Lori a ble. Lori stated all Spoke with Lori I informed of the	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a	No Yes  M? No Yes  M? No Yes  ACTIONS and  mple at site 05. C  les would be take  nat sample 76004;  t Charity PWS. I	s Not Applicable  I or COMMENTS  confirmed that Dalten had spontomorrow.  2 was for the Charity PWS are then emailed the monitoring	ke with he	r about th	e Misty		
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SW System with Dual Purpose Sa 11/9/2022 JT- Mountain samp 11/14/2022 JT confirmed and be properly ent	population ≤1,000 ample approved for Spoke with Lori a le. Lori stated all Spoke with Lori I informed of the tered as a sample if the service of the lered as a sample in Exceeded?	with one well? this GW Syste bout TC+ sa repeat samp to confirm it safe results a for Charity P	No Yes  Mr? No Yes  Mr? No Yes  ACTIONS and  mple at site 05. C  les would be take  at sample 76004;  t Charity PWS. I  WS and not Mist  evel 1 or 2 Assessi	S Not Applicable Lor COMMENTS confirmed that Dalten had spont tomorrow. 2 was for the Charity PWS are then emailed the monitoring y Mountain PWS.	ke with he ad not Mis group so th	r about the	e Misty sin, Lori 76004	2 coul	
SW System with Dual Purpose Sa 11/9/2022 JT- Mountain same 11/14/2022 JT confirmed and be properly en	population ≤1,000 ample approved for Spoke with Lori a le. Lori stated all Spoke with Lori I informed of the tered as a sample if Exceeded?   Exceeded?   Note the sample in the lered as a sample	with one well? this GW Syste bout TC+ sa repeat samp to confirm the safe results a for Charity P	No ☐ Yes  Mr? ☐ No ☐ Yes  Mr. ☐ Yes	S Not Applicable I or COMMENTS confirmed that Dalten had spon tomorrow. 2 was for the Charity PWS are then emailed the monitoring y Mountain PWS.	ke with he ad not Mis group so the previous R re to Collect	r about the y Mountains sample	e Misty  in, Lori  76004.	2 coul	

Ground Water Rule & Triggered Source Water Sample Requirements

1) Ground Water System (Go to #3) Secondary/purchased water system (Go to #2) If Surface Water only (STOP)

2) If Secondary System: is Primary system GW (go to #4) or SW (if SW ONLY, no GW: STOP)

3) Does Ground Water System provide 4-Log treatment? YES (STOP) NO (Triggered source water sampling required. Go to #5.) If Primary (seller) is not a 4-log system, the secondary system (purchaser) must notify the Primary of the Coliform sample within 24-hours.

4) GW systems not doing 4-Log treatment requires source water sample from EACH well active the day of unsafe sample. List the Primary (seller) Groundwater System(s) and ID#'s here(if applicable):

Date Primary GW system(s) were notified to collect Triggered Source Water Samples: (Go to #5)

	Prir	nary PWS Nam	3				Prima	ry PWS Name		
Lab#	Date	Weil # or	nomo	Colife	orm A/P	Lab#	Date	Well # or name	Coli	om AP
Lab#	Date	wen # o	name	TC	E. Coli .	Lao #	Date	vven # or name	TC	E. Col
		44								
	-						-			
								J	-	l.
ny source w	ater sample E	. Coli positive ?	ΠN	ПΥ	(If yes 5 ac	ditional well sa	mples require	ed)		4
/ell# / Name						100 200		*		
		-					-2			
		Ade	itional T	ringorae	Source Wat	er Monitoring (	if required)			
		Adu	idonal f	nggerec	Jource Hai	er monitoring (	ni (edunca)			
	W	ell:			1		We	lt.		
1	ab#	Date	Col	liform A/P		Lab#		Date	Colifo	m A/P
	.av #	Date	TC	E. Coli		Lao #		Date	TC	E. Coli
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	W .ab#	'ell; Date		liform A/F	,	Lab#		Date		em A/P
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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM - PUBLIC DRINKING WATER BRANCH
REVISED TOTAL COLIFORM RULE

FOR OFFICE	E USE ONLY
DATE RECEIVED	APPROVED?  Yes No
CONDUCTED YIA PHO	NE WITH WATER SYSTEM
MODNR REVIEWER	DATE APPROVED

LEVEL 1 ASSESSMENT FOR		∐ Yes					
*		MODNR REVIEWER	DATE APPROVED				
PUBLIC WATER SYSTEM (PWS) INFORMATIO	ON a market and a	ALL TO CARE	A Million of the Control of the Cont				
PWS NAME CHARITY PWS	erregarde zerrefesterantil i saa	MO3036	85361				
COUNTY Pulaski	FEBRU	MONTHLY COMPLIANCE PERIOD (MONTH/YEAR) FEBRUARY 2023					
REASON FOR LEVEL 1 ASSESSMENT	2/15/202	NOTIFICATION DATE OF LEVEL 1 ASSESSMENT TRIOGER 2/15/2023					
ROUTINE SAMPLES TOTAL COLIFORM POSITIVE (#): REPEAT SA	AMPLES TOTAL COLIFORM-POSI	NA					
INSTRUCTIONS Section A, Sanitary Defect Checklist: Review and s	State of Feeder's providing to	harry the me Company					
issues" in that subsection. Check "Not Applicable" if Section B, Description of Occurrence: Provide exp Section C, Corrective Action: Provide corrective act corrective actions for issues identified in sections A accompleting each scheduled corrective action. Return this form to appropriate department region. Retain a copy of this completed assessment form is	nlanation and additional frictions and dates completed and B. Notify the appropriate of t	formation for any isst lor provide proposed fate Department of No s (from notification da	etural Resources' regi	Itou.or outsernang			
Section A - Sanitary Defect Checklist Have any of	[] No issues	Trin.		HIR 54 7 75 1			
1. GENERAL		A MAN WALL TO BE A SAME	Vision III alle				
	D E. Rece		main repairs or well	pump pulled			
2. SAMPLING SITES AND SAMPLING PROTO	COL No issue						
A. Windy or raining during sampling  B. Change in conditions at sample site  C. Yard hydrant/frost-proof spigot used  D. First month of operation following startup  E. Vegetation resting up against sample tap  F. Sample close to ground/difficult to sample  G. Tap not disinfected and flushed before samplin  H. Hot/cold (swivel/auto sensing) mixing faucet  I. Untrained or inexperienced sample collector	☐ K. Poin local ☐ L. Uncl ☐ M. Lea ☐ N. San ☐ O. Tap	ion ean sample tap king tap or erratic flov upling error on a dead-end main tor/screen/O-ring/hos	ter softener or cartrid	ge filtration) at samplin			
3. DISTRIBUTION SYSTEM	No issue						
□ A. Any unprotected cross connection     □ B. Submerged air-relief/air-vacuum valve     □ C. Any recent construction activity     □ D. New service connections recently added     □ E. Low/inadequate disinfectant residuals     □ F, Standing water/debris in valve vault     □ G. Recent flushing of fire hydrants or blow-offs	I. Rocce I. Rocce I. Rocce K. Illeg L. Exce Z. Other		3 ure				
4. STORAGE TANKS AND TOWERS	No issues	. Not Applicat					
□ A. Evidence of animals/insects in tank     □ B. Tank vent not downturned/screened     □ C. Tank access hatch has no water tight seal     □ D. Tank maintenance practices not followed     □ E. Tenk deterioration or rust noted  Date - last inspection of vents and hatches:  Date - last sanitary tank inspection:	☐ G. Deb ☐ H. Rec ☐ l. Inco epp: ☐ J. Tanl ☐ K. Deb	disinfectant residuals ris in tank overflow p ent tank repairs rrect operation of leve artenances I teaking or holes in ta- ris in tank lence of vandalism/tan	ipe el control valves, altitu mk	ide valves, and related			

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM – PUBLIC DRINKING WATER BRANCH REVISED TOTAL COLIFORM RULE

FOR OFFIC	E USE ONLY
DATE RECEIVED	APPROVED!
CONDUCTED VIA PHO	NE WITH WATER SYSTEM
MODNE REVIEWER	DATE APPROVED

LEVEL 1 ASSESSMEN	T FORM			☐ Yes	
à à				MODNE REVIEWER	DATE APPROVED
PUBLIC WATER SYSTEM (PWS) INFO	RMATION	4-7-51	144	a service and	a penal a
PWS NAME CHARITY PWS	ELECTION DESIGNATION	67 04 1 V 146 16	MO3036	ir.	And the second second
COUNTY Pulaski	MONTHLY COL				
REASON FOR LEVEL 1 ASSESSMENT	2/15/2023	MENT TRIGGER			
ROUTINE SAMPLES TOTAL COLLFORM-POSITIVE (4):	REPEAT SAMPLES TOTAL 2	L COLIFORM-POSITIVE (#):	VALID REFEAT	SAMPLES WATER SYSTEM	FALLED TO COLLECT (#):
INSTRUCTIONS	AND STATE OF THE		<b>建筑不过</b> 电路	Section of the sectio	
contamination identified during the assessmissues" in that subsection. Check "Not Appl Section B, Description of Occurrence: Pro Section C, Corrective Action: Provide corrective actions for issues identified in section completing each scheduled corrective action Return this form to appropriate department Retain a copy of this completed assessment.	licable" if the section ovide explanation and rective actions and da ctions A and B. Notil i. ent regional office was not form in your files	does not apply to the P d additional information ates completed or provid fy the appropriate Depa within 30 days (from no for at least five years.	of the proposed to the propose	s identified in Section meframe for complete and Resources' region above).	n A. ion of outstanding nal office after
Section A - Sanitary Defect Checklist Ha	ve any of the followi	ng occurred?		See William at	# 5- ATTA
1. GENERAL		No issues			
A. Loss of pressure (<20 psi) or pressure     B. Operation/maintenance activities that econtamination     C. Signs of vandalism/forced entry into waterage	could introduce	F. Power Loss Z. Other:	ors of unsant ution system n	ary conditions nain repairs or well p	ump pulled
2. SAMPLING SITES AND SAMPLING	PROTOCOL	☐ No issues ☐ J. Sample tap has	aburanlania	manuscripton becaleng	-
A. Windy or raining during sampling  B. Change in conditions at sample site  C. Yard hydrant/frost-proof spigot used  D. First month of operation following sta  E. Vegetation resting up against sample to  F. Sample close to ground/difficult to sam  G. Tap not disinfected and flushed before  H. Hot/cold (swivel/auto sensing) mixing  I. Untrained or inexperienced sample coli	ap nple e sampling ; faucer	K. Point of use to location L. Unclean sampl M. Leaking tap o N. Sampling erro O. Tap on a dead	eatment (wate le tap r erratic flow or -end main	r softener or cartridge	e filtration) at sampling
3. DISTRIBUTION SYSTEM	-	No issues			
A Any unprotected cross connection  B. Submerged air-relief/air-vacuum valve  C. Any recent construction activity  D. New service connections recently add  E. Low/inadequate disinfectant residuals  F. Standing water/debris in valve yault  G. Recent flushing of fire hydrants or blo	led -	H. Improper operation of pumps or valves I. Recent main breaks or leaks J. Recent pump or valve failure K. Illegal use of hydrants L. Excessive water hammer Z. Other:			
4. STORAGE TANKS AND TOWERS		No issues No	ot Applicable	TV -	
A. Evidence of animals/insects in tank B. Tank vent not downturned/screened C. Tank access batch has no water tight s D. Tank maintenance practices not follow E. Tank deterioration or rust noted  Date - last inspection of vents and hatches: Date - last sanitary tank inspection:  Date - last tank cleaning:		F. Low disinfects G. Debris in tank H. Recent tank re I. Incorrect operappurtenances J. Tank leaking o K. Debris in tank L. Evidence of va	overflow pipe pairs stion of level of r holes in tank	control valves, eltitud	e valves, and related



Michael L. Parson Governor

> Dru Buntin Director

July 18, 2023

Misty Mountain PWS
Travis Blevins
15405 Texas Road
St. Robert, MO 65584
Via email at leontravis@yahoo.com

#### SIGNIFICANT DEFICIENCIES and UNSATISFACTORY FINDINGS RESPONSE REQUIRED

Dear Travis Blevins:

On June 20, 2023, team members from the Missouri Department of Natural Resources conducted an inspection of Misty Mountain PWS, located on Treetop Lane in Pulaski County. The entity operates under the authority of Misty Mountain PWS, MO3036363.

Compliance with the Missouri Safe Drinking Water Law was evaluated. The enclosed report is being issued with Significant Deficiencies for the violations identified in the enclosed report.

Please direct your attention to the Compliance Determination and Listing of Violations and Required Actions in the enclosed report. The report documents the findings and the actions that you must take to address the violations. A written response documenting actions taken to correct the violations is required by the date specified in the report.

Failure to address the required actions will result in the issuance of a Notice of Violation. If you have any questions or would like to schedule a time to meet with a Department team member to discuss compliance requirements, please contact Sebastien Clos-Versailles by mail at the Missouri Department of Natural Resources, Central Field Operations, P.O. Box 176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>.

Sincerely,

CENTRAL FIELD OPERATIONS

Sebastien Clos-Versailles Environmental Supervisor

Enclosure

c: Public Drinking Water Branch, Compliance and Enforcement Unit Public Drinking Water Branch, Monitoring Unit Justin Davis, Missouri Geological Survey, Well Installation Section Pulaski County Health Department Lori Jean, Operator

### **Compliance Summary**

Facility Name: Misty Mountain PWS

Permit Number: MO3036363 Inspection Date: June 20, 2023

This summary is intended to direct your attention to violations noted during the inspection of your facility.

#### Violations noted during the inspection:

- 1. Non-certified individual making operational decisions for the water system
- 2. Unscreened breather vent on Trisha Well #2
- 3. Unsealed well cap on Tigger Well #4
- 4. No Permit to Dispense Water to the Public
- 5. System failed to pay lab fees for 2023
- 6. System does not have a site sampling plan
- 7. System does not have a plan for a backup operator
- 8. All wells being used are considered noncompliant wells

#### Actions necessary to return to compliance:

- Beginning immediately, non-certified individuals must cease work on the water system
   without proper-supervision-from-the-certified chief operator-and-must-notify the
   Department of their plan to do so
- 2. Properly screen the breather vent for Trisha Well #2 with an 18-mesh screen
- Reroute the wiring through the electrical conduit and properly seal the well cap for Tigger Well #4
- 4. Upon completion of the noncompliant well agreements, apply for a Permit to Dispense Water
- 5. Pay the laboratory fees for the 2023 calendar year
- 6. Establish a satisfactory site sampling plan, which includes sufficient sample locations, identified repeat locations, a sample schedule and a map of the sample locations
- 7. Determine a plan for a backup chief operator or identify an individual as the certified backup operator
- Sign the noncompliant well agreements for each well associated with the system upon receipt from the Department and satisfy the requirements laid out within

Refer to the Significant Deficiencies and Unsatisfactory Findings sections on pages six through nine of the enclosed report for detailed information about these violations and how to correct them so your facility may be returned to compliance.

We appreciate your prompt attention to these issues. If you have any questions, or if you would like to meet to discuss these violations further, please contact Sebastien Clos-Versailles at Central Field Operations at (573) 522-3322 or at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>.

# Missouri Department of Natural Resources Central Field Operations Report of Inspection Misty Mountain PWS 15405 Texas Road, St. Robert, Pulaski County PWS ID# MO3036363 July 18, 2023

#### Introduction

I, Sebastien Clos-Versailles, of the Missouri Department of Natural Resources' Central Field Operations (CFO), conducted a routine Compliance and Operations Inspection of the Misty Mountain public water system. The inspection was conducted on June 20, 2023, with the following participants:

Charity PWS

 Travis Blevins
 Owner
 573-855-2769

 Lori Jean
 Chief Operator
 417-425-9343

 Jonathan Fuqua
 Owner - Well #5
 573-337-1982

Missouri Department of Natural Resources

Sebastien Clos-Versailles Environmental Supervisor 573-526-0459

sebastien.clos-versailles@dnr.mo.gov

Jackie Johnson Environmental Specialist 573-751-4414

jackie.johnson@dnr.mo.gov

This inspection was conducted to determine whether the system is operated and maintained in compliance with the Missouri Safe Drinking Water Law and the Missouri Safe Drinking Water Commission Regulations, in accordance with 640.120.5, Revised Statutes of Missouri. This inspection reviewed all eight critical components of a public water system, as defined by the Environmental Protection Agency (EPA). Required actions to correct deficiencies found during this inspection, as well as any recommendations, are described in this report.

#### Entity Description and History

Misty Mountain PWS is a community public water system requiring an operator with a Distribution I certification. The system is located in Misty Mountain Acres off Treetop Lane in St. Robert, MO 65584. The water system serves approximately 70 customers through 28 active service connections. This is a primary ground water system with 5 wells, 2 119-gallon bladder tanks, an 86-gallon bladder tank, a 62-gallon bladder tank, and an interconnection with Pulaski County PWSD 2 (MO3024491) from which it purchases water. The water it purchases from Pulaski County PWSD 2 is 100 percent groundwater. The system is divided into four distinct distribution systems: one fed by the water purchased water from Pulaski County PWSD 2, which was previously fed by Topo Drive Well #1; one fed by Trisha Well #2, one fed by Tigger Well #1 and Taylor Well #5, which is currently not operational; and one fed by Tigger Well #2. The system operates year round and produces an unknown amount of water per day.

Report of Inspection Misty Mountain PWS July 18, 2023 Page 2 of 16

The Department activated the Misty Mountain PWS in July, 2022. Shortly after activation, the system exceeded the E. coli MCL for the distribution system fed by Topo Well #1 during the August 2022 monitoring period. The Department subsequently issued a Boil Water Order for that section of the distribution system on August 16, 2022. In addition to the nine distribution samples which were total coliform and E. coli positive from August 15 - August 24, the Department also collected an additional 12 samples from Topo Drive Well #1 which also tested positive for total coliform bacteria and E. coli during that time span. The Department conducted the corresponding Level 2 Assessment on August 18, 2022 and issued a corrective actions plan for source water contamination. On October 11, 2022, the system responded to the corrective actions plan, electing to find and fix the issue. This action was never achieved and the Department consequently issued the system a groundwater rule violation on January 20, 2023; this violation remains unresolved. The Topo Drive Well #1 section of the system triggered another Level 2 Assessment during the November 2022 monitoring period following the collection of four additional total coliform and E. coli positive samples. The Department conducted the Assessment on November 14, 2022. The system never met the corrective actions as outlined in the second Assessment, and the Department issued the system a violation for failing to meet the corrective actions. This violation remains open. On November 21, 2022, Central Field Operations referred the Misty Mountain PWS to the Public Drinking Water Branch Compliance and Enforcement section.

On April 3, 2023, the system submitted a low pressure event for the customers on Topo Drive following a collapse of Topo Drive Well #1. The casing cracked just below the pitless adapter, about six feet down, and the pump and casing fell into the well. At the time of inspection, the well was in this state and not in use. As a result of the well collapsing, the system turned on a connection with the Pulaski County PWSD 2, previously unknown to the Department. The meter to this line is located at intersection of Treetop Lane and Topo Drive, with the service line running directly to the Topo Drive well house.

Additionally, Travis Blevins sold Taylor Well #5 to Jonathan Fuqua in February 2023 with the intention of severing the connection with Tigger Well #1. At the time of inspection, however, the well remained offline and will soon be sold back to Travis Blevins, per Jonathan Fuqua.

The system has failed to pay the laboratory fees for the 2023 year. The system also triggered a Level I Assessment of the Tigger Well #2 distribution system during the September 2022 monitoring period following the collection of multiple total coliform positive samples. The system also received an additional violation, in December 2022, for failing to post a public notice in time.

#### Discussion of Inspection and Observations

As part of the inspection, I reviewed the files for Misty Mountain PWS, MO3036363, including previous inspection reports, correspondence, and the status of the Permit to Dispense to familiarize myself with the requirements specific to this system. Prior to the inspection, I called Travis Blevins and Lori Jean to set up the drinking water inspection for Misty Mountain PWS; after a brief discussion of the scope of the inspection we set the inspection date for June 20, 2023.

Report of Inspection Misty Mountain PWS July 18, 2023 Page 3 of 16

Jackie Johnson and I met Travis Blevins and Lori Jean at the Topo Drive Well #1 well house and viewed Topo Well #1 and the now offline 119-gallon bladder tank in the Topo Drive well house. We then proceeded to the Trisha well house to view Trisha Well #2 and the respective 62-gallon bladder tank. We then proceeded to view the meter pit where Misty Mountain PWS purchases water from Pulaski County PWSD 2. We then proceeded to view Tigger Well #3 and the respective 119-gallon bladder tank, followed by Tigger Well #4 and the respective 86-gallon bladder tank. We then met Jonathan Fuqua at the Taylor well house, but they could not locate the key so we were not able to access the well house. Lori Jean, Travis Blevins, Jackie Johnson and I then went to Travis Blevins' office at 15405 Texas Road to review the system files. As part of the inspection, I collected a routine bacteriological drinking water sample from sample point #07. I delivered the sample to the Missouri State Public Health Lab for analysis.

My observations from the inspection of the Misty Mountain PWS public water system are organized according to the eight critical components of public drinking water systems: System Management and Operation, Operator Certification, Monitoring and Reporting, System Source, System Treatment, Pumping Facilities, Finished Water Storage, and Distribution System.

#### System Management and Operation

At the time of inspection, it came to the attention of the Department that the system's chief operator was not always in charge of operating the water system and individuals not appropriately certified as Distribution System I operators were making changes to the water system (Significant Deficiency #1). The system does not have a Permit to Dispense Water to the Public (Unsatisfactory Finding #1). The system has not paid laboratory fees for 2023 (Unsatisfactory Finding #2). The system does not have a satisfactory site sampling plan (Unsatisfactory Finding #3). The system does not have a cross connection control program (Recommendation #1). The system does not have a leak repair procedure (Recommendation #2) and does not have a flushing program (Recommendation #3). The system does not have a map of the distribution system (Recommendation #4). The system does not have each connection individually metered, so they cannot calculate water loss (Recommendation #5).

#### Operator Certification

The chief operator is Lori Jean, Certification ID #9729, Distribution System II, Treatment C. The system does not have a backup operator or a plan in place should their chief operator be unavailable (Unsatisfactory Finding #4).

#### Monitoring and Reporting

The system has done a commendable job collecting all required chemical and bacteriological samples.

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Review Table #1, below, for the Misty Mountain PWS analyte monitoring schedule.

Analyte	Number of Sample(s)	foring Schedule	Next Scheduled Action
Bacteria	4	Monthly, Wells & Distribution System	Every month, every year
Nitrate/Nitrite	1	Every year per Well	2023
Synthetic Organic Chemicals (SOC)	1	Every six years per Well	2028
Volatile Organic Chemicals (VOC)	1	Every three years per Well	2025
Inorganic Chemicals (IOC)	1	Every three years per Well	2025
Lead & Copper Analysis	5	Semi-annually from the Distribution System	2023
Radionuclides	P	Every quarter for Trisha Well #2	2023
Radionuclides	I	Every nine years for Tigger Wells #3 and	2031
Glyphosate	1	Every nine years per Well	2031

#### System Source

The system has three active wells and an interconnection with Pulaski County PWSD 2 (Photo #5), that it uses as its primary sources of water. At the time of inspection, both Topo Well #1 and Taylor Well #5 were offline. Trisha Well #2, Tigger Well #3, and Tigger Well #4 are the primary wells. The system purchases water from the Pulaski County PWSD 2 public water system to provide water to the customers which used to be on the Topo Well #1. The Department has determined all five wells to be noncompliant wells. Additional information on well specifications and appurtenances is available in Tables #2 and #3.

			Ŵ	S⊸Table# ell-Specific	ations:		10.10	
Weil ID	Installation Date	Casing Depth	Casing ter Casing ter Diameter	Total Depth (ft)	Pomp Orpodryk Ospan	Primit of the	WINS Recorded	i Diron
Topo Well #1	2007	120	6	480	20	Submersible	00403720	Photo #1
Trisha Well #2	2006	80	6	420	30	Submersible	00402796	Photo #3
Tigger 1 Well #3	2006	84	6	440	30	Submersible	00402795	Photo #6
Tigger 2 Well #4	2011	200	6	450	20	Submersible	00450605	Photo #11
Taylor Well #5	2006	126	6	420	45	Submersible	00367318	N/A

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Well	Breather	Pump to	Sample	Access	Lightning	above 4	·Isolation	Pressure,	Drawdowni Gauge	Check	Master
Well ID	Vent	Waste	Tap	Hatch	Protection	ground level	Valve	- Cauge	Gauge	Valve.	Master Meter
Topo Well #1	Y	N	Y	N/A		Y	Y	Y	N	Y	N
Trisha Well #2	Y	N	Y	Y		Y	Y	Y	N	N	N
Tigger 1 Well #3	Y	N	Y	Y	-	Y	Y	Y	N	N	N
Tigger 2 Well #4	Y	И	Y	N/A	-	Y	Y	Y	N	N	N
Taylor Well #5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

At the time of inspection, there was no screen on the breather cent for Trisha Well#2 (Significant Deficiency #2)(Photo #4). The well cap for Tigger Well #4 was not secured down resulting in an opening in the well head (Significant Deficiency #3)(Photo #11 & #12). The system is using noncompliant wells as its sources of water (Unsatisfactory Finding #5). Taylor Well #5 was not accessible at the time of inspection so an evaluation of the well was not possible (Unsatisfactory Finding #6). Trisha Well #2, Tigger Well #3, and Tigger Well #4 do not have check valves (Recommendation #6). Topo Well #1, Trisha Well #2, Tigger Well #3, and Tigger Well #4 all lack drawdown equipment (Recommendation #7) and master meters (Recommendation #8), and none of the respective discharge piping is designed to be able to pump water to waste (Recommendation #9). The well house for the Tigger Well #3 is not adequately protecting the well and the respective components (Recommendation #10)(Photo #7). The well house door for Tigger Well #4 had a damaged doorframe making access to the well house extremely difficult (Recommendation #11)(Photo #8 & #9). The system noted that the Taylor Well #5 was not in use and had not been for at least two years, but had not been plugged (Recommendation #12).

System Treatment

The system does not treat the water.

Pumping Facilities

The system does not have any pumping facilities.

Finished Water Storage

The system has one bladder tank at each well that it uses to provide finished water storage and pressurize that section of the distribution system. The system previously had 1 119-gallon

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bladder tank at the Topo Well #1. The tank was physically disconnected from the system at the time of the inspection as that section of the distribution system now had water from Pulaski County PWSD 2 (Photo #2). The system has a 62-gallon bladder tank at the Trisha Well #2 (Photo #3), a 119-gallon bladder tank at the Tigger Well #3 (Photo #6) and an 86-gallon bladder tank at the Tigger Well #4 (Photo #10). The system previously had a 119-gallon bladder tank at the Taylor Well #5, however, this was not verifiable at the time of inspection as the Taylor well house was locked and inaccessible (Photo #13).

At the time of inspection, none of the bladder tanks at Trisha Well #2 or Tigger Wells #3 and #4 had isolation valves (Recommendation #13).

#### Distribution System

The vault for the interconnection between the distribution piping of Tigger Well #3 and Taylor Well #5 was flooded (Recommendation #14)(Photo #14).

#### Sampling and Monitoring

As part of this Compliance and Operation Inspection, the following analyses were conducted to verify operational parameters for Misty Mountain PWS (Table #4). During the inspection, I collected a routine bacteriological sample, and measured the disinfectant residuals to verify that the system is meeting the operational and regulatory parameters required. Misty Mountain PWS does not use chlorine as the disinfectant in their treatment process. The sample was collected at sampling site #07, located at 14100 Trisha Drive. I took the sample to the Missouri State Public Health Lab for analysis.

Bacterio	Table logical Sa	#4 mple Infort	nation -	
Location	Free s: Residual mg/L	Total Residual mg/I	Total Coliform	≨E-Coli
07 - 14100 Trisha Drive	<u> </u>	0.00	Absent	Absent

No analyses yielded results that were outside of statutory or acceptable range.

#### Compliance Determination, Violations, and Required Actions

Misty Mountain PWS was found to be out of compliance with the Missouri Safe Drinking Water Law and the Missouri Safe Drinking Water Commission Regulations, based upon observations made at the time of the inspection.

The Missouri Safe Drinking Water Regulations require the Department to identify specific Significant Deficiencies with water systems that require corrective actions. These significant deficiencies are defects in design, operation, or maintenance that can cause public health concerns, or have the potential to introduce contamination. The public water system must consult with the CFO by August 17, 2023 to determine what actions will be taken to correct each

Report of Inspection Misty Mountain PWS July 18, 2023 Page 7 of 16

significant deficiency, otherwise a violation will be issued. The system must also contact the Department within 30 days of correcting a Significant Deficiency. The system has 120 days from the date of this letter to either complete the required corrective actions, or enter into an approved corrective action plan, which provides a schedule for completion of the remaining Significant Deficiencies. If the Significant Deficiency is not resolved within 120 days or another Department-approved date, then a violation will be issued. The system shall submit a written statement to the CFO by November 15, 2023, explaining what actions have been taken to correct the violations and prevent a reoccurrence in the future.

#### Significant Deficiencies

1. The water system had individuals making operational decisions and changes to the water system who were not under the direct supervision of a properly certified chief operator as required by Missouri Safe Drinking Water Regulation 10 CSR 60-14.010(4).

At the time of inspection, Lori Jean notified the Department that the owner of the system was making operational decisions and changes to the water system without the knowledge or consent of the certified chief operator. These include, primary frequent unknown shocking of the water system with chlorine and unknown other work around the system.

Missouri Safe Drinking Water Regulations requires all community and nontransient noncommunity public water systems to have an operator with the appropriate level of certification, to be in charge of each treatment facility and each distribution system. Any personnel making changes to the treatment processes or the distribution must be under the direct supervision of the chief operator.

REQUIRED ACTION: Non certified members of the water system must immediately cease operational activities associated with the water system and ensure the certified chief operator is making all operational decisions or supervising others prior to changes being made. Please notify the Department, in writing, of the system's plan to ensure this remains the case in the future.

2. The breather vent for Trisha Well #2 is not properly screened. This is a Significant Deficiency under 10 CSR60-4,025(4), and requires an immediate response.

At the time of the inspection, the well vent was not screened. To prevent contamination from entering the well, well vents must be installed terminating in a downturned position at least 18-inches above the floor and covered with an 18 mesh corrosion resistant screen. This is approximately the mesh size for standard window screen.

REQUIRED ACTION: The water system must make repairs to the vent so that the vent is downturned, at least 18-inches above the floor and above the well head, and it is screened with an 18-mesh corrosion resistant screen.

Report of Inspection Misty Mountain PWS July 18, 2023 Page 8 of 16

3. Tigger Well #4 has an unprotected opening to the well. The well cap is not properly sealed, providing an avenue for contamination to enter the well. This is a Significant Deficiency under Missouri Safe Drinking Water Regulation 10 CSR 60-4.025(4)(A), and requires an immediate response.

REQUIRED ACTION: The water system must replace make the necessary repairs to the well to ensure the electrical wiring properly goes through the electrical conduit and ensure it is properly sealed and subsequently seal the well cap. Upon the repair, the water system must notify CFO.

#### **Unsatisfactory Findings**

For all Unsatisfactory Findings listed below, a written response documenting actions taken to correct the violations is required by August 17, 2023.

1. The system must apply for a Permit to Dispense Water to the Public as required by Missouri Safe Drinking Water Regulation 10 CSR 60-3.010 and 640.115, RSMo.

All water systems dispensing water to the public, which meet the definition of a Public Water System, are required to obtain a valid Permit to Dispense Water to the Public from the Department.

REQUIRED ACTION: At the current time, the system is ineligible to receive a Permit to Dispense due to Department determining the wells serving the system are noncompliant. Upon completion of the noncompliant well agreement, as outlined in Unsatisfactory Finding five, soon to be issued by the Department, you can submit a Permit to Dispense Application to the Department for review.

The water system failed to pay Laboratory Services and Program Administration Fees
to the Department for 2023 as required by Missouri Safe Drinking Water Regulation 10
CSR 60-16.030.

Section 640.100.3, RSMo and Public Drinking Water Regulation 10 CSR 60-16.030 require Public Water Supplies to pay an annual fee for laboratory services. These fees help pay for only a portion of the cost involved in providing laboratory analysis for all of the samples collected each year.

REQUIRED ACTION: The water system must submit payment of Laboratory Service and Program Administration Fees for 2023, see enclosed, to the following address:

Missouri Department of Natural Resources DAS Accounting Program P.O. Box 477 Jefferson City, MO 65102

If you have any questions regarding Laboratory Service and Program Administration Fees, please contact the Water Protection Program's Fiscal Management unit at 573-751-6723.

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 The water system must develop a bacteriological site sampling plan in accordance with 10 CSR 60-4.022(3)(A).

Missouri Safe Drinking Water Regulation 10 CSR 60-4.022(3)(A) requires all public water systems must develop a site sampling plan for the collection of samples for the monthly bacteriological samples. The site plan must consist of a list of routine sample sites where a sample may be collected, along with a map showing the location of the sample sites. The repeat upstream and repeat downstream sites must also be listed for each routine sampling site. Repeat sampling sites should be located within five service connections from the routine sampling site. The routine sampling sites must be spread out across the distribution system so the samples can be representative of the water in all areas of the water system.

REQUIRED ACTION: The water system is to develop a written bacteriological site sampling plan and submit this to CFO for review and approval. Please refer to the enclosed instructions for details on how to develop a written bacteriological site sampling plan.

4. The water system does not have a plan or provisions for a standby chief operator, with the proper certification, to take over operation of the water system in the even the current chief operator is not available, on leave, ill or resigns. This is a required by Missouri-Safe-Drinking Water Regulation 10 CSR 60-14.010(4)(A)(6).

Missouri Safe Drinking Water Regulations requires all community and nontransient noncommunity public water systems to have an operator with the appropriate level of certification, to be in charge of each treatment facility and each distribution system. Any personnel making changes to the treatment processes or the distribution must be under the direct supervision of the chief operator. Regulations also specify that public water systems must have a contingency plan for standby replacement chief operator to be available at all times. This can be a second employee certified to the appropriate level, a mutual assistance agreement with a neighboring system, or an arrangement with a contract operator.

REQUIRED ACTION: The water system must develop this contingency plan and notify CFO of the standby chief operator (or operators). The contingency plan should be reviewed no less than annually and be part of the system's emergency operations plan.

5. Wells #1, #2, #3, #4 and #5 are not constructed to standards for a Public Water Supply, and have not been approved as a drinking water source as required by Missouri Statute 640.115(1) and Missouri Code of Regulations Missouri Safe Drinking Water Regulation 10 CSR 60-3.010.

All wells used by the water system were drilled prior to June 15, 2013, to either multi-family or domestic standards. Since the wells do not meet the construction standards required for a public water system, the sources (or wells) are considered "noncompliant" for use as a public water system.

Wells serving community water systems prior to October 1, 1979, are considered grandfathered. Wells drilled after the October 1, 1979, grandfather date but before June 15, 2007, that do not meet Design Guide standards, or pre-October 1, 1979, but not serving

Report of Inspection Misty Mountain PWS July 18, 2023 Page 10 of 16

community water systems until after that date but before June 15, 2007, are considered noncompliant. These wells can continue to be used to supply a community public water system if the water supplier enters into a Compliance Agreement with the Department.

REQUIRED ACTION: The Department is willing to work with you to develop a legal agreement that that will allow the continued use of the wells provided they meet certain provisions. The Public Drinking Water Branch's Compliance and Enforcement Section will be contacting you to assist you in developing this agreement. For continued use of the wells, you must sign and complete the required steps as laid out in the agreement.

6. The well was not accessible for inspection as required by section 640.120, RSMo.

The well should be available for routine inspection so the well head and associated appurtenances within the well house can be assessed for proper construction and sanitary defects.

REQUIRED ACTION: Certify that access will be provided to the well during the next routine inspection by the Department. Access the well, inspect the well head, and if necessary, perform the following repairs: a) Seal around the electrical wires and any cracks with silicone caulk, b) install a casing vent in a downturned position covered with 18-mesh corrosion resistant screen, c) repair any leaks, and d) clean, prime and paint any areas of rust.

Please submit the required material to Central Field Operations ATTN: Sebastien Clos-Versailles by mail at the Missouri Department of Natural Resources, Central Field Operations, P.O. Box 176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>.

#### Recommendations

1. The water system does not have a backflow and cross connection prevention program, ordinance, or user agreement in place to ensure compliance with 10 CSR 60-11.010(2).

Community water systems are required to ensure that customers with backflow hazards have appropriate backflow prevention devices installed, have the devices tested annually and submit proof of the test to the public water system. The aim of a backflow and cross connection prevention program is to protect the customers and the water system from potential contamination that could result from reversals of flow between the public water distribution systems and non-potable sources or chemical contaminant sources. One tool can be an ordinance or user agreement adopted by the water system specifying the requirements for customers. Such an ordinance or agreement may not be less stringent that required by Missouri Safe Drinking Water Regulations. Water systems can make some requirements more stringent than the minimum set by the regulation. For example many water systems have designated all in-ground irrigation systems as Class I hazards. A copy of a model ordinance has been enclosed for assistance.

Additionally, the water system should develop procedures to identify new hazards as residential and commercial buildings are constructed and existing hazards not currently

Report of Inspection Misty Mountain PWS July 18, 2023 Page 11 of 16

tracked by the water system. The water system may use surveys and other available resources to identify existing hazards that are not currently being tracked. The water system may also create set anniversary dates for facilities in order to ensure compliance with the backflow requirements. Water systems are given this ability under 10 CSR 60-11.010(8)(C).

The water system should develop and enact a backflow prevention program.

The water system does not have a main disinfection and leak repair program to ensure proper disinfection of all newly constructed or repaired water distribution mains as recommended by the Department.

At the time of inspection, the water system did not have a main disinfection and leak repair program. Missouri Safe Drinking Water Regulation 10 CSR 60-4.080(5) requires all new or repaired water mains to be disinfected by methods acceptable by the Department. At this time, the Department recognizes the standards of the latest edition of the American Water Works Association (AWWA).

The water system should develop a main disinfection program and leak repair program to be used by staff and contractors. The procedures should include adequate flushing, disinfection and microbiological testing of all water mains. In addition to main disinfection, the water system should maintain records of each repair including, location, date of repair, probable cause, materials used, method of repair, and estimated water loss. The program should also include guidelines and procedures for issuing a Boil Advisory, notification to the Department, and reporting low pressure events.

3. A written main flushing program should be established to help ensure water quality to all portions of the distribution system.

At the time of inspection, the water system was not conducting flushing at all. Routine flushing of water distribution piping removes deposits and sediments in the water that may restrict flow and cause water quality issues. A whole system flush should be conducted at least once a year with flushing starting at the master meter and working out toward the extremities of the system. The water system should notify the wholesale provider and customers prior to beginning the flushing. Flushing should be conducted during periods of low water demand and when weather is suitable (spring or fall) to reduce inconvenience to customers. The water system should record all water used during flushing events and include this as accounted for water in monthly water loss calculations.

4. The water system needs to develop and maintain an updated map of all distribution piping, valves, and flush hydrants.

At the time of the inspection, the water system was unable to provide an updated map of the distribution system. A detailed map of the distribution piping showing the location, size, and type of existing piping, valves, flush hydrants, and service connections is needed to maintain the water distribution system piping. It is important that distribution piping is located on a map in case of water leaks, and to locate piping in order to prevent accidental damage and contamination of the water system.

Report of Inspection Misty Mountain PWS July 18, 2023 Page 12 of 16

The water system has a flat rate for water service. For a sustainable water system, each service connection should be individually metered so that each customer pays for what they actually use.

Individual meters can be installed at locations even if the connection is an unbilled connection. Individual meters are important for figuring water loss for a water system. Water loss represents lost revenue for the water system, and may indicate main leaks which cause a loss of pressure and pose a potential risk for backflow.

The water system should consider installing individual meters. For assistance with setting an adequate rate for service, the water system can contact the Missouri Rural Water Association, who can run a rate analysis for your public water system. For more information, contact the CFO Public Drinking Water Unit at 573-522-3322.

6. A check valve is not installed on the discharge piping of Well #2, Well #3, and Well #4.

Check valves allow water to only flow in one direction, and protect the ground water supply from contamination caused by back siphoning or back flow. The lack of a check valve between the well and the distribution system places undue stress on the pump's internal valves and could shorten their service life. Should the foot-valve on the well pump fail, water would flow back down the well until the loss of pressure calls for the well to start and repressurize the system. The system would cycle continuously until the motor burns out.

A check valve should be installed on the discharge piping after the well and prior to any other components.

7. Drawdown measuring equipment is not installed and/or conducted on any of the wells.

Drawdown measuring equipment installed on each well allows the water system to periodically measure the static and pumping water levels of each well. Regular drawdown measurements can help identify declining water levels in wells, the need to lower a well pump to prevent costly damage, or the plugging of a well screen. Regular drawdown tests can save the water system money from costly well pump replacements and predict a well ability to produce enough water to meet water needs. Instructions by the National Rural Water Association on how to conduct drawdown measurements can be obtained by contacting the KCRO Public Drinking Water Unit, or on the internet at <a href="http://www.cadroughtprep.net/images/Drought/Well%20Drawdown.pdf">http://www.cadroughtprep.net/images/Drought/Well%20Drawdown.pdf</a>.

8. Flow meters are not installed on any of the wells.

Totalizing flow meters should be installed on the discharge piping of each well and recorded weekly. Regular meter readings can reveal excessive pumping that may indicate a water leak or other problems with the water system. Regular recording water use from each well will also provide information for the water system to determine if storage capacity or disinfection contact time is sufficient.

Report of Inspection Misty Mountain PWS July 18, 2023 Page 13 of 16

9. None of the wells have the ability to pump to waste.

Currently, none of the wells are set up with piping to allow it to be pumped to waste. The system should modify the discharge piping to allow the wells to be pumped to waste in the event of contamination, well disinfection, or after maintenance has been performed. As a reminder, any alteration to the well discharge piping requires construction approvals from the Department prior to any modifications.

10. The Tigger Well #3 well house no longer provided adequate protection for the well and related equipment. Specifically, there was an open hole in the roof and vegetation had begun to grow into the well house

The structural condition of the well house has deteriorated to the point that it no longer provides adequate protection from the weather. Unless required repairs are made soon to the well house, your investment in expensive equipment will be in jeopardy of loss.

The water system should have a permanent well house constructed that will incorporate the following features:

a) Weather protection.

b) Security against entry by animals or unauthorized persons.

c) Floor of waterproof material.

d) Adequate drainage, normally a four-inch floor drain.

e) Provisions for heating, ventilation and humidity control.

 f) Accessible for routine maintenance and inspection of all components of the well system.

g) Provisions for repair and removal of the well, pumps and other components.

Typically, a roof hatch is required directly over the well.

11. The Tigger Well #4 well house is poorly maintained. Specifically, there is damage to the doorframe making entrance into the well house very difficult.

The well house was damaged and showed signs of a possible break in. This prevented the successful entrance into the wellhouse. Such a situation increases the difficulty of proper maintenance and operation.

The water system should repair the well house and maintain it in a neat and orderly condition.

12. At the time of the inspection, water system staff indicated that the Taylor Well #5 was not in use, but the well has not been properly sealed.

Failure to properly plug all inactive well(s) can present a contamination threat to groundwater and for active wells. Plugging of abandoned wells or those which can no longer be used is required by Missouri Well Construction Regulation 10 CSR 23-3.110.

The water system should properly plug the inactive well(s), and submit proof of proper plugging to CFO. Please submit form MO 780-1603, available online at

Report of Inspection Misty Mountain PWS July 18, 2023 Page 14 of 16

https://dnr.mo.gov/document-search/water-well-heat-pump-plugging-registration-report-mo-780-1603. Please contact the Department's Well Installation Section office in Rolla at 573-368-2165 for more information regarding well plugging requirements. All wells no longer utilized must be properly plugged by a licensed well driller. The line from the well to the water system must be severed and capped. If the well is to be plugged, the system must notify CFO upon plugging.

## 13. All bladder tanks lack necessary bypass piping and/or isolation valves to continue operation if the tanks were out of service for repair or maintenance.

Bypass piping is necessary for the water system to take the tank out of service for repairs or painting, and to continue to properly operate. Each individual tank should be equipped with sufficient piping, shutoff valves and drains to allow each individual tank to be taken offline, drained, repaired, painted, or replaced without causing loss of pressure in the distribution system. No drain shall have a direct connection to a sewer or storm drain.

The water system should install bypass piping and the necessary valves and controls as soon as practical.

## 14. There was standing water in the valve vault where the valve between the distribution systems of Wells #3 and #5 is located.

It is recommended that valve vaults be drained to daylight to prevent flooding and standing water, which can accelerate the rusting of the pipes and other components. This also presents another work hazard for the repair crew.

The water system should consult with their engineer and operators to discuss a means to provide a drain to daylight for the vault, or if a sump pump can be installed.

#### Additional Comments/Conclusion

On March 1, 2019, amendments to the Missouri Safe Drinking Water Regulation were implemented which directly affect 10 CSR 60 Chapters 3, 4, 6-9, 11, 13, and 14. Personnel should review these regulation amendments and implement all applicable changes as they apply to the public water system. The amendments can be reviewed here: <a href="https://www.sos.mo.gov/adrules/csr/current/10csr/10csr">https://www.sos.mo.gov/adrules/csr/current/10csr/10csr</a>.

The EPA reported that the State of Missouri is among the top 25 percent of states affected by federal flooding declarations. This was noted during a March 31, 2015, webinar on EPA's new Flood Resilience: A Basic Guide for Water and Wastewater Utilities, which was hosted by the Association of State Drinking Water Administrators and the EPA. The Flood Resilience Guide is geared towards helping small to medium sized water and wastewater utilities prepare for, and recover from, a flood event. This interactive guide is available online at: <a href="https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility">https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility</a>. For more information on emergency planning, visit <a href="https://water.epa.gov/infrastructure/watersecurity/emerplan/">https://water.epa.gov/infrastructure/watersecurity/emerplan/</a>.

Report of Inspection Misty Mountain PWS July 18, 2023 Page 15 of 16

All major water users are required by law to register water use annually. The Department of Natural Resources does not regulate the use of water – only the amount of water a major water user has the potential to use. Missouri shares water resources with many other states, some of which regulate water use and have already established their demand for water. It is important for Missouri to document our need for water and to protect our right to that water. Registering major water use establishes a user's need for water and helps the Department understand the water needs of Missouri citizens. Registration is required by all persons, firms, and corporations with the capacity to withdraw or divert 100,000 gallons or more per day or 70 gallons per minute from any combination of stream, river, lake, well, spring, or other water source. The purpose of sections 71.287 and 256.400 to 256.430 is to ensure the development of information required for the analysis of certain future water resource management needs such as the Missouri State Water Plan. Information about the plan may be found at: <a href="https://dnr.mo.gov/water/what-were-doing/water-planning/missouri-water-resources-plan">https://dnr.mo.gov/water/what-were-doing/water-planning/missouri-water-resources-plan</a>. To register online or for mail-in forms go to: <a href="https://dnr.mo.gov/document-search/major-water-use-registration-mo-780-2019">https://dnr.mo.gov/document-search/major-water-use-registration-mo-780-2019</a>. For further information or questions, contact the Water Resources Center at 573-368-2100.

Missouri Public Drinking Water Regulation 10 CSR 60-3.010 requires all public water systems to submit a construction application with engineered plans and specifications to the Department for review and approval prior to any new construction, modification, alteration, or extension of your water system source, treatment, storage, or distribution piping. This requirement includes modifications made to your treatment process that would significantly change or alter plant capacity or treatment processes. Adding, removing, or changing chemical additives and/or their injection locations may significantly alter your treatment process. Water systems must notify the Department at least 60 days in advance of making any changes to the treatment process. Please make sure your water system has written approval prior to beginning any construction or modifications. Permits and construction specifications can be found at: <a href="https://dnr.mo.gov/env/wpp/pdwb/permits.htm">https://dnr.mo.gov/env/wpp/pdwb/permits.htm</a>. For further information or questions, contact the Permits and Engineering Section at 573-751-5331.

Missouri Public Drinking Water Regulation 10 CSR 23-3.060(4) and 23-3.110(1) requires that any well that has not been in use for two or more years be permanently plugged and properly certified with the Missouri Geological Survey Well Installation Section. Contact the Well Installation Section for well plugging specifications at 573-368-2100.

Missouri Public Drinking Water Regulation 10 CSR 60-7.010(2) requires that public water systems notify the Department within 48 hours of a failure to comply with any regulation or monitoring requirement. Since Regulation 10 CSR 60-4.080(9) requires all public water systems to maintain a minimum pressure of 20 psi, all public water systems must notify the Department when pressures in their system fall below 20 psi.

Report of Inspection Misty Mountain PWS July 18, 2023 Page 16 of 16

If you have any questions or would like to schedule a time to meet with Department staff to discuss compliance requirements, please contact Sebastien Clos-Versailles by mail at the Missouri Department of Natural Resources, Central Field Operations, P.O. Box 176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>. For assistance with compliance issues or general technical assistance, you may also contact Central Field Operations at the above contacts.

#### Signatures

SUBMITTED BY:

Sebastien Clos-Versailles Environmental Inspector

let Co-Vi

Central Field Operations

REVIEWED BY:

Arthur Goodin, CHMM

Deputy Director

Division of Environmental Quality

#### Attachments:

Attachment #1 - Photographs #1 - #14

Attachment #2 - System Map

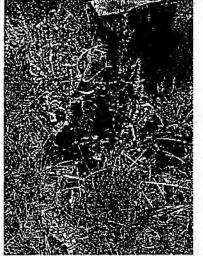
Attachment #3 - Permit to Dispense Application

Attachment #4 - 2023 Lab Fees Invoice

Attachment #5 - Community Site Sampling Plan Guidance

Attachment #6 - Cross Connection Control Ordinance Template

Page 1 of 5



Photograph: # 1.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS

Permit: MO3036363 Location: Topo Well #1

Description: View of the abandoned Topo Well

#1



Photograph: #2.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS

Permit: MO3036363

Location: Topo Well #1 Well house

Description: View of the discharge piping and now physically separated 119-gallon bladder

tank in the Topo Well #1 well house



Photograph: #3.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

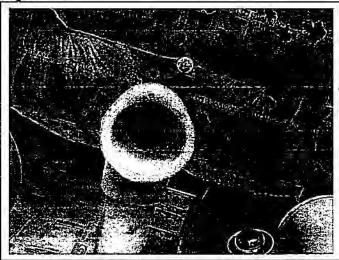
Entity: Misty Mountain PWS

Permit: MO3036363 Location: Trisha Well #2

Description: View of Trisha Well #2 and respective discharge piping and 62-gallon

bladder tank

Page 2 of 5



Photograph: #4.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS

Permit: MO3036363 Location: Trisha Well #2

Description: View of the unscreened breather

vent on the Trisha Well #2



Photograph: #5.

Taken By: Sebastien Clos-Versailles

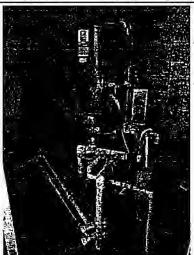
Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS

Permit: MO3036363

Location: Intersection of Treetop and Topo Description: View of the the interconnection between the Misty Mountain PWS and the

Pulaski County PWSD 2



Photograph: # 6.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

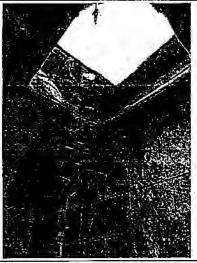
Entity: Misty Mountain PWS

Permit: MO3036363 Location: Tigger Well #3

Description: View of the Tigger Well #3 and the respective discharge piping and 119-gallon

bladder tank

Page 3 of 5



Photograph: #7.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS

Permit: MO3036363

Location: Tigger Well #3 well house

Description: View of the opening in the well

house of Tigger Well #3



Photograph: #8.

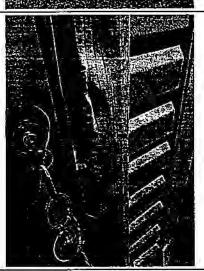
Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS\_

Permit: MO3036363

Location: Tigger Well #4 well house and well Description: View of the Tigger Well #4 well house and well (under bucket on the right)



Photograph: #9.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

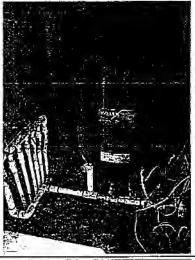
Entity: Misty Mountain PWS

Permit: MO3036363

Location: Tigger Well #4 well house and well Description: View of the damaged doorframe

of the Tigger Well #4 well house

Page 4 of 5



Photograph: #10.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS

Permit: MO3036363

Location: Tigger Well #4 well house

Description: View of the respective discharge piping and 86-gallon bladder tank for Tigger

Well #4



Photograph: #11.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS

Permit: MO3036363 Location: Tigger Well #4

Description: View of the Tigger Well #4. Note the electrical wires not running through the electrical conduit opening on the right of the well and the missing bolts on the well cap.



Photograph: #12.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

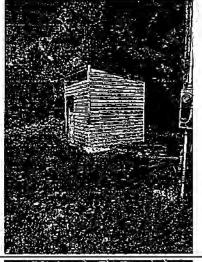
Entity: Misty Mountain PWS

Permit: MO3036363 Location: Tigger Well #4

Description: View of the opening in the

electrical conduit of the well cap. Note in Photo 11 that the electrical wires run directly under the unsealed well cap not via the electrical conduit.

Page 5 of 5



Photograph: #13.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS

Permit: MO3036363

Location: Taylor Well #5 well house

Description: View of the Taylor Well #5 well

house



Photograph: #14.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Misty Mountain PWS

Permit: MO3036363

Location: Behind Taylor Well #5 well house Description: View of the flooded valve vault where the Taylor Well #5 and its respective distribution system interconnects with the distribution system the Tigger Well #3. Attachment #2 – System Map Misty Mountain PWS July 18, 2023 Page 1 of 1

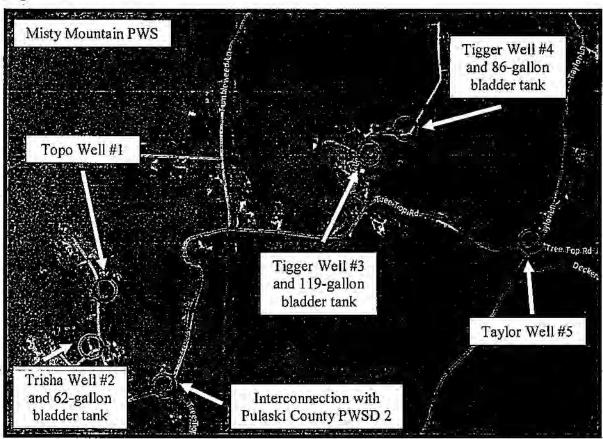


Figure 1: Overhead view of the Misty Mountain public water system. Image courtesy of Google Maps.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM – PUBLIC DRINKING WATER BRANCH REVISED TOTAL COLIFORM RULE LEVEL 1 ASSESSMENT FORM

FOR OFFICE	EUSE ONLY
DATE RECEIVED	APPROVED?  Yes No
CONDUCTED VIA PHO	NE WITH WATER SYSTEM
MODNE REVIEWER	DATE APPROVED

DEVENTAGORISMINE	- V. V. V. V.		MODHR REVIEWE	R DATE APPROVED		
PUBLIC WATER SYSTEM (PWS) INFORM	IATION	หลองสิทธิ์การเรียก - คือ การ		A STATE OF THE STA		
PWS NAME CHARITY PWS	or services	Armeteria	PWS ID NUMBER MO3036361			
Pulaski	MONTHLY CUMPLIANCE PERIOD (MONTHYEAR) FEBRUARY 2023					
REASON FOR LEVEL 1 ASSESSMENT			NOTIFICATION DATE OF LEVEL \ ASSESSMENT TRIGGER 2/15/2023			
ROUTINE SAMPLES TOTAL COLIFORM-POSITIVE (#): RE	PEAT SAMPLES TOTAL (	COLIFORM-POSITIVE (#):	VALID REPRAT SAMPLES WATER NA	EPPAT SAMPLES WATER SYSTEM FAILED TO COLLECT (P):		
INSTRUCTIONS Section A, Sanitary Defect Checklist: Review	THE PARTY TO A	STATE CHARLES				
Section A, Sanifary Defect Checklist: Review contamination identified during the assessment, issues" in that subsection. Check "Not Applica Section B, Description of Occurrence: Provid Section C, Corrective Action: Provide correct corrective actions for issues identified in section completing each scheduled corrective action. Return this form to appropriate department Retain a copy of this completed assessment for the complete contamination and the complete complete complete completed assessment for the complete comple	ble" if the section of the explanation and tive actions and date as A and B. Notify regional office with form in your files f	additional information es completed or provious the appropriate Depa thin 30 days (from no or at least five years.	ws.  It for any issues identified in the proposed timeframe for current of Natural Resources wification date above).	Section A. completion of outstanding s' regional office after		
Section A - Sanitary Defect Checklist Have 1. GENERAL	any of the followin	o issues		· · · · · · · · · · · · · · · · · · ·		
A. Loss of pressure (<20 psi) or pressure flu- B. Operation/maintenance activities that con- contamination C. Signs of vandalism/forced entry into well storage 2. SAMPLING SITES AND SAMPLING PR	/pump house or	E. Recent distribi	tors of unsanitary conditions tion system main repairs of atmospheric vacuum break	well pump pulled		
A. Windy or raining during sampling  B. Change in conditions at sample site  C. Yard hydrant/frost-proof spigot used  D. First month of operation following starts  E. Vegetation resting up against sample tap  F. Sample close to ground/difficult to sampl  G. Tap not disinfected and flushed before si  H. Hot/cold (swivel/auto sensing) mixing fa  1. Untrained or inexperienced sample collect	e ampling ucet tor		eatment (water softener or o le tap r erratic flow or	eartridge filtration) at samplin		
3. DISTRIBUTION SYSTEM  A. Any unprotected cross connection  B. Submerged air-relief/air-vacuum vaive  C. Any recent construction activity  D. New service connections recently added  E. Low/inadequate disinfectant residuals  F. Standing water/debris in valve vault  G. Recent flushing of fire hydrants or blow-		No issues  H. Improper ope  I. Recent main b  J. Recent pump o  K. Illegal use of  L. Excessive war  Z. Other:	or valvė failurė hydrants	,		
4. STORAGE TANKS AND TOWERS	I	No issues . DN	ot Applicable			
□ A. Evidence of animals/insects in tank     □ B. Tank vent not downturned/screened     □ C. Tank access hatch has no water tight sea     □ D. Tank maintenance practices not followe     □ E. Tunk deterioration or rust noted	l d	G. Debris in tank	overflow pipe epairs ation of level control valves s or holes in tank	s, altitude valves, and related		
Date - last inspection tank inspection:			andalism/tampering			

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM – PUBLIC DRINKING WATER BRANCH REVISED TOTAL COLIFORM RULE

FOR OFFIC	E USE ONLY
DATE RECEIVED	APPROVED?  Yes No
CONDUCTED VIA PHO	INE WITE WATER SYSTEM
MODNE REVIEWER	DATE APPROVED

LEVEL 1 ASSESSMENT FOR	Yes MODNE REVIEWER	DATE APPROVED	
PUBLIC WATER SYSTEM (PWS) INFORMATION	N	9	n distribution of
PWS NAME		PWS ID NUMBER MO3036361	
CHARITY PWS	MONTHLY COMPLIANCE PERIOD (M	ONTHIVEARI	
COUNTY Pulaski		FEBRUARY 2023	
REASON FOR LEVEL 1 ASSESSMENT	M Mar 11 mm	2/15/2023	P Words
ROUTINE SAMPLES TOTAL COLLFORM-POSITIVE (*): REPEAT SA	AMPLES TOTAL COLIFORM-POSITIVE (#):	VALID REPEAT SAMPLES WATER SY NA	
INSTRUCTIONS:	West	Water Table	
issues" in that subsection. Check "Not Applicable" if Section B, Description of Occurrence: Provide expl Section C, Corrective Action: Provide corrective act corrective actions for issues identified in sections A at completing each scheduled corrective action. Return this form to appropriate department region Retain a copy of this completed assessment form in	lanation and additional informations and dates completed or proving B. Notify the appropriate Depoted of fice within 30 days (from narrour files for at least five years	n for any issues identified in Se de proposed timeframe for com artment of Natural Resources' r otification date above).	pienon of outstanding egional office after
Section A - Sanitary Defect Checklist Have any of			4 - No. 10 10 10 10 10 10 10 10 10 10 10 10 10
1. GENERAL	No issues		
□ A. Loss of pressure (<20 psi) or pressure fluctuatio     □ B. Operation/maintenance activities that could intro contamination     □ C. Signs of vandalism/forced entry into well/pump storage	oduce	tors of unsanitary conditions ution system main repairs or we	ell pump pulled
2. SAMPLING SITES AND SAMPLING PROTO	COL No issues		
A. Windy or raining during sampling  B. Change in conditions at sample site  C. Yard hydrant/frost-proof spigot used  D. First month of operation following startup  E. Vegetation resting up against sample tap  F. Sample close to ground/difficult to sample  G. Tap not disinfected and flushed before samplin  H. Hot/cold (swivel/auto sensing) mixing faucet  I. Untrained or inexperienced sample collector		or erratic flow or	
3. DISTRIBUTION SYSTEM	No issues		
A. Any unprotected cross connection  B. Submerged air-relief/air-vacuum valve  C. Any recent construction activity  D. New service connections recently added  E. Low/inadequate disinfectant residuals  F. Standing water/debris in valve vault  G. Recent flushing of fire hydrants or blow-offs	H. Improper ope L. Recent main b J. Recent pump o K. Illegal use of L. Excessive was Z. Other:	or valve failure hydrants ter hammer	
4, STORAGE TANKS AND TOWERS		ot Applicable	
A. Evidence of animals/insects in tank B. Tank vent not downturned/screened C. Tank access hatch has no water tight seal D. Tank maintenance practices not followed E. Tank deterioration or rust noted  Date - last inspection of vents and hatches:  Date - last sanitary tank inspection:  Date - last tank eleaning:	appurtenance  J. Tank leaking  K. Debris in tan	overflow pipe epairs ation of level control valves, al s or holes in tank	tirude valves, and related



Missouri Department of Natural Resources Water Protection Program - Public Drinking Water Branch CFO Received 3/10/2023

Revised Total Coliform Rule Level 1 Assessment Required

Date of Report: February 15, 2023 PWS Name: CHARITY PWS PWS ID: MO3036361 County: Pulaski

LORI JEAN PO BOX 615 MARSHFIELD, MO 65706

Please notify us of any name or address changes

CHARITY PWS public water system (PWS) has triggered a Level 1 assessment for the February 2023 monitoring period.

Treatment Technique Trigger: Level 1 Assessment Required for Multiple Total Coliform Positive Samples.

The PWS has exceeded the level 1 assessment treatment technique trigger as specified in 10 CSR 60-4.022(9)(A)1.B. For systems collecting fewer than 40 samples per month, two or more total coliform positive samples exceeds the treatment technique trigger requiring a Level 1 assessment.

#### Required Actions:

- 1. Read the enclosed fact sheet on the Revised Total Coliforn Rule.
- 2. Refer to and follow the instructions on the enclosed "Level 1 Assessment Form".
- 3. Make a copy of the completed assessment form and retain it for your records.
- 4. Submit the completed assessment form with corrective actions taken so far and any requests for additional time back to the Department's Central Field Operations at the address given below within 30 days from the date of this letter for review and approval. Any request for additional time will require Department approval and a signed "Schedule of Compliance."
- If a schedule of compliance is issued for any corrective actions requiring longer than 30 days to complete, notify the Department's Central Field Operations after completing each scheduled corrective action.
  - 6. After the assessment form and all documented corrective actions completed are reviewed and approved, the Department's Central Field Operations will send a closure letter for the assessment and completed schedule of compliance to be retained in your records.

For assistance with the assessment or corrective actions, contact the Central Field Operations at 573-522-3322, 1101 Riverside Dr, Jefferson City, MO 65102-0176.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM – PUBLIC DRINKING WATER BRANCH

## REVISED TOTAL COLIFORM RULE LEVEL 1 ASSESSMENT FORM

FOR OFFICE	USE ONDY
DATE RECEIVED	APPROVED?  Yes No
CONDUCTED VIA PHO	NE WITH WATER SYSTEM
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4. STORAGE TANKS AND TOWERS  A. Evidence of animals/insects in tank  B. Tank vent not downturned/screened  C. Tank access hatch has no water tight see  D. Tank maintenance practices not follow  E. Tank deterioration or rust noted  Date - last inspection of vents and hatches:	☐ F. Low disinfecta ☐ G. Debris in tank ☐ H. Recent tank re	overflow pipe pairs ation of level or rholes in tank	ontrol valves, altitu	de valves, and related	

☑ No issues ☐ Not Applicable
C. Bladder of bladder tank ruptured or waterlogged
2. Other
☐ No issues ☐ Not Applicable
G. Change in flow rates or water quality
H. Meters not recently/properly calibrated
1. Treatment bypassed
J. Treatment added or changed
K. Softener serviced/salt added
Z. Other:
☐ No Issues ☐ Not Applicable
G. Potential source of contamination near well
☐ H. Damaged well casing
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Michael L. Parson Governor

> Dru Buntin Director

July 18, 2023

Charity PWS
Travis Blevins
15405 Texas Road
St. Robert, MO 65584
Via email at leontravis@yahoo.com

#### SIGNIFICANT DEFICIENCIES and UNSATISFACTORY FINDINGS RESPONSE REQUIRED

Dear Travis Blevins:

On June 20, 2023, team members from the Missouri Department of Natural Resources conducted an inspection of Charity PWS, located on Charity Drive in Pulaski County. The entity operates under the authority of Charity PWS, MO3036361.

Compliance with the Missouri Safe Drinking Water Law was evaluated. The enclosed report is being issued with Significant Deficiencies for the violations identified in the enclosed report.

Please direct your attention to the Compliance Determination and Listing of Violations and Required Actions in the enclosed report. The report documents the findings and the actions that you must take to address the violations. A written response documenting actions taken to correct the violations is required by the date specified in the report.

Failure to address the required actions will result in the issuance of a Notice of Violation. If you have any questions or would like to schedule a time to meet with a Department team member to discuss compliance requirements, please contact Sebastien Clos-Versailles by mail at the Missouri Department of Natural Resources, Central Field Operations, P.O. Box 176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>.

Sincerely,

CENTRAL FIELD OPERATIONS

Sebastien Clos-Versailles Environmental Supervisor

Enclosure: Report of Inspection

e: Public Drinking Water Branch, Compliance and Enforcement Unit Public Drinking Water Branch, Monitoring Unit Justin Davis, Missouri Geological Survey, Well Installation Section Pulaski County Health Department Lori Jean, Operator

## **Compliance Summary**

Facility Name: Charity PWS Permit Number: MO3036361 Inspection Date: June 20, 2023

This summary is intended to direct your attention to violations noted during the inspection of your facility.

#### Violations noted during the inspection:

- 1. Non-certified individual making operational decisions for the water system
- 2. Opening in the electrical conduit for Highway PP Well #2
- 3. No Permit to Dispense Water to the Public
- 4. System failed to pay lab fees for 2023
- 5. System does not have a site sampling plan
- 6. System does not have a plan for a backup operator
- 7. All wells being used are considered noncompliant wells

#### Actions necessary to return to compliance:

- Beginning immediately, non-certified individuals must cease work on the water system
  without proper supervision from the certified chief operator and must notify the
  Department of their plan to do so
- 2. Properly seal the opening in the Highway PP Well #3's electrical conduit
- 3. Upon completion of the noncompliant well agreements, apply for a Permit to Dispense Water
- 4. Pay the laboratory fees for the 2023 calendar year
- 5. Establish a satisfactory site sampling plan, which includes sufficient sample locations, identified repeat locations, a sample schedule and a map of the sample locations
- Determine a plan for a backup chief operator or identify an individual as the certified backup operator
- Sign the noncompliant well agreements for each well associated with the system upon receipt from the Department and satisfy the requirements laid out within

Refer to the Significant Deficiencies and Unsatisfactory Findings sections on pages six through nine of the enclosed report for detailed information about these violations and how to correct them so your facility may be returned to compliance.

We appreciate your prompt attention to these issues. If you have any questions, or if you would like to meet to discuss these violations further, please contact Sebastien Clos-Versailles at Central Field Operations at (573) 522-3322 or at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>.

# Missouri Department of Natural Resources Central Field Operations Report of Inspection Charity PWS Charity Drive, Dixon, Pulaski County PWS ID# MO3036361 July 18, 2023

#### Introduction

I, Sebastien Clos-Versailles, of the Missouri Department of Natural Resources' Central Field Operations (CFO), conducted a routine Compliance and Operations Inspection and Level 2 Assessment of the Charity PWS public water system. The inspection was conducted on June 20, 2023 with the following participants:

Charity PWS

Travis Blevins

Owner

573-855-2769

Lori Jean

Chief Operator

417-425-9343

Missouri Department of Natural Resources

Sebastien Clos-Versailles

Environmental Supervisor

573-526-0459

sebastien.clos-versailles@dnr.mo.gov

Jackie Johnson

Environmental Specialist

573-751-4414

jackie.johnson@dnr.mo.gov

This inspection was conducted to determine whether the system is operated and maintained in compliance with the Missouri Safe Drinking Water Law and the Missouri Safe Drinking Water Commission Regulations, in accordance with 640.120.5, Revised Statutes of Missouri. This inspection reviewed all eight critical components of a public water system, as defined by the Environmental Protection Agency (EPA). Required actions to correct deficiencies found during this inspection, as well as any recommendations, are described in this report.

#### **Entity Description and History**

Charity PWS is a community public water system requiring an operator with a Distribution I certification. The system is located on Charity Drive, Dixon, MO 65459. The water system serves approximately 65 customers through 26 active service connections. This is a primary ground water system with four wells, I 119-gallon bladder tank, 3 86-gallon bladder tanks and 1 34-gallon bladder tank. The system is divided into two separate distribution systems with Wells #2, #3 and #4 all hooked up to one distribution system and Well #1 feeding the second. The system operates year round and produces an unknown amount of water per day.

The Department activated the Charity PWS in July, 2022. Since that time, the system's Well #3 triggered a Level 1 Assessment during the February 2023 monitoring period following multiple total coliform positive samples and a subsequent Level 2 Assessment during the June 2023 monitoring period following multiple total coliform positive samples. The Level 2 Assessment was conducted in combination with this routine inspection. The system has not yet paid the lab fees for the 2023 year.

Report of Inspection Charity PWS July 18, 2023 Page 2 of 15

#### Discussion of Inspection and Observations

As part of the inspection, I reviewed the files for Charity PWS, MO3036361, including previous inspection reports, correspondence, and the status of the Permit to Dispense to familiarize myself with the requirements specific to this system. Prior to the inspection, I called Travis Blevins and Lori Jean to set up the drinking water inspection for Charity PWS; after a brief discussion of the scope of the inspection we set the inspection date for June 20, 2023.

Jackie Johnson and I met Lori Jean at the Well #4 well house and proceeded to view Well #3 and the respective 119-gallon bladder tank, then Well #4 and the respective 86-gallon bladder tank, then Well #2 and the respective 2 86-gallon bladder tanks, and finally, Well #1 and the 34-gallon bladder tank. We then proceeded to the water system office on Texas Road and met up with Travis Blevins to review the system files. As part of the inspection and Level 2 Assessment, I collected a special bacteriological drinking water sample from sample point #02. I delivered the sample to the Missouri State Public Health Lab for analysis.

My observations from the inspection of the Charity PWS public water system are organized according to the eight critical components of public drinking water systems: System Management and Operation, Operator Certification, Monitoring and Reporting, System Source, System Treatment, Pumping Facilities, Finished Water Storage, and Distribution System.

#### System Management and Operation

At the time of inspection, it came to the attention of the Department that the system's chief operator was not always in charge of operating the water system and individuals not appropriately certified as Distribution System I operators were making changes to the water system (Significant Deficiency #1). The system does not have a Permit to Dispense Water to the Public (Unsatisfactory Finding #1). The system has not paid laboratory fees for 2023 (Unsatisfactory Finding #2). The system does not have a satisfactory site sampling plan (Unsatisfactory Finding #3). The system does not have a cross connection control program (Recommendation #1). The system does not have a leak repair procedure (Recommendation #2) and does not have a flushing program (Recommendation #3). The system does not have a map of the distribution system (Recommendation #4). The system does not have each connection individually metered, so they cannot calculate water loss (Recommendation #5).

#### Operator Certification

The chief operator is Lori Jean, Certification ID #9729, Distribution System II, Treatment C. The system does not have a backup operator or a plan in place should their chief operator be unavailable (Unsatisfactory Finding #4).

#### Monitoring and Reporting

The system has done a commendable job collecting all the required bacteriological and chemical samples.

Review Table #1, below, for the Charity PWS analyte monitoring schedule.

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Analyte	Number of Sample(s)	Frequency	Next Scheduled Action
Bacteria	2	Monthly, Wells & Distribution System	Every month, every year
Nitrate/Nitrite	1	Every year per Well	2023
Synthetic Organic Chemicals (SOC)	1	Every six years per Well	2028
Volatile Organic Chemicals (VOC)	Í	Every three years per Well	2025
Inorganic Chemicals (IOC)	1	Every three years per Well	2025
Lead & Copper Analysis	5	Every six months from the Distribution System	2023
Radionuclides	Ĭ	Every nine years per Well	2031
Glyphosate	1	Every nine years per Well	2031

#### System Source

The system has four wells which it uses as its primary source of water. Three of the four wells are currently active. Highway PP Well #2 is currently not in operation and the distribution system for that well is connected with Charity Wells #3 and #4 on Charity Drive. Highway PP Well #1 serves its own distribution system. The Department has determined all four wells to be noncompliant wells. Additional information on well specifications and appurtenances is available in Table #2 and #3.

			Ž.	Table #2 ell Specific	A STATE OF THE PARTY OF THE PAR		95-697-33 No. 12-33 FR. 12-33-35-35	
Well ID :	Installation Date	Casing - Depth (ft)	Casing Diameter (in)	Total Depth (ft)	Pump Capacity (gpm)	Pump Type	WIMS Record ID	Photo
Highway PP Well #1	1999	210	6	350	Unknown	Submersible	00228532	Photo #10
Highway PP Well #2	2011	125	6	435	Unknown	Submersible	00451551	Photo #7
Charity Well #3	2001	180	6	450	Unknown	Submersible	00263361	Photo #1
Charity Well #4	2003	100	6	460	Unknown	Submersible	00289613	Photo #3

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Table #3: Well Appurtenances											
Well ID	Breather Vent	Pump to Waste	Sample Tap	Access Hatch	Lightning Protection	Casing 18" above ground level	Isolation Valve	Pressure Gauge	Drawdown Gauge	Check Valve	Master Meter
Hwy PP Well #1	Y	N	Y	N/A	-	Y	Y	Y	N	N	N
Hwy PP Well #2	Y	N	Y	N/A		Y	Y	Y	N	N	N
Charity Well #3	Y	N	Y	N/A	-	Y	Y	Y	N	N	Z
Charity Well #4	Y	N	Y	N/A	-	Y	Y	Y	N	N	N

At the time of inspection, there was an unprotected opening in the electrical conduit of Well #2 (Significant Deficiency #2)(Photo #7). The system is using noncompliant wells as its sources of water (Unsatisfactory Finding #5). There was a crack in the well cap of Charity Well #3 (Recommendation #6)(Photo #1). None of the wells are equipped with a check valve (Recommendation #7), a drawdown gauge (Recommendation #8), or a master meter (Recommendation #9). None of the wells discharge piping are set up to allow the well to pump to waste (Recommendation #10). Highway PP Well #2 is not an active well and has been inactive for several years (Recommendation #11). The well houses for Highway PP Wells #1 and #2 are not equipped with locking doors (Recommendation #12)(Photos #8 & #11), and the well house for Highway PP Well #2 is in a state of disrepair (Recommendation #13)(Photo #8).

System Treatment

The system does not treat the water.

Pumping Facilities

The system does not have any pumping facilities.

Finished Water Storage

The system has one or two bladder tanks at each well that it uses as finished water storage and to pressurize the system. Please review Table #4 for information on the tank number and size at each well.

	Table #4! Tapls Information	
Weil	- Fanks	Photio
Well #1	34-gallon Well-X-Trol bladder tank	Photo #12

Report of Inspection Charity PWS July 18, 2023 Page 5 of 15

Well #2	Two 86-gallon Well-X-Trol bladder tanks	Photo #9	
Well #3	119-gallon bladder tank	Photo #2	
Well #4	86-gallon Well-X-Trol bladder tank	Photo #4	

At the time of inspection, none of the bladder tanks had individual valves to isolate them from the distribution system (Recommendation #14). The two 86-gallon bladder tanks at Well #2 exhibited corrosion from a previous leak (Recommendation #15).

#### Distribution System

At the time of inspection, several vaults containing isolation valves were flooded, including the interconnection between the distribution systems of Wells #3 and #4 (Recommendation #16)(Photo #5).

#### Other

As previously mentioned, Charity PWS triggered a Level 2 Assessment during the June 2023 monitoring period following multiple total coliform positive samples collected near Well #3. The Assessment was conducted in conjunction with this inspection.

In addition to the items cited above, the system should replace the raw water sample taps at Wells #3 and #4 as their flows are erratic and have a wide spray, making it difficult to collect a sample. Additionally, there is a nearby well owned by a separate entity just down the road from Well #4 which is not in use and has an opening in the wellhead as the electrical conduit is open (Photo #6). This issue is being referred to the Missouri Geological Survey's Well Installation Section.

#### Sampling and Monitoring

As part of this Compliance and Operation Inspection, the following analyses were conducted to verify operational parameters for Charity PWS (Table #5). During the inspection, I collected a special bacteriological sample, and measured the disinfectant residuals to verify that the system is meeting the operational and regulatory parameters required. Charity PWS does not treat the water. The sample was collected at sampling site #02, located at 18440 Charity. I took the sample to the Missouri State Public Health Lab for analysis.

Bacteriol	Pable## ogjeakSamp	i le lintimal	(i))).	
Bearifon	Residual Residual	Total Residual mg/L	i fori Colfision	E (Coli)
02 - 18440 Charity	-	0.03	Absent	Absent

At the time of inspection, there was a detectable amount of total chlorine residual in the system. There were trace amounts of residual chlorine found in the water system, which was unexpected

Report of Inspection Charity PWS July 18, 2023 Page 6 of 15

as the system is not a chlorinated system. Based on conversations with customers in the system and Lori Jean at the time of inspection, the remaining residual chlorine discovered was a result of Travis Blevins shocking the wells prior to the inspection, following the initial total coliform positive routine sample. Lori Jean did collect repeat samples, associated with the June 2023 Level 2 Assessment, prior to this shocking.

#### Compliance Determination, Violations, and Required Actions

Charity PWS was found to be out of compliance with the Missouri Safe Drinking Water Law and the Missouri Safe Drinking Water Commission Regulations, based upon observations made at the time of the inspection.

The Missouri Safe Drinking Water Regulations require the Department to identify specific Significant Deficiencies with water systems that require corrective actions. These significant deficiencies are defects in design, operation, or maintenance that can cause public health concerns, or have the potential to introduce contamination. The public water system must consult with the CFO by August 17, 2023 to determine what actions will be taken to correct each significant deficiency, otherwise a violation will be issued. The system must also contact the Department within 30 days of correcting a Significant Deficiency. The system has 120 days from the date of this letter to either complete the required corrective actions, or enter into an approved corrective action plan, which provides a schedule for completion of the remaining Significant Deficiencies. If the Significant Deficiency is not resolved within 120 days or another Department-approved date, then a violation will be issued. The system shall submit a written statement to the CFO by November 15, 2023, explaining what actions have been taken to correct the violations and prevent a reoccurrence in the future.

#### Significant Deficiencies

 The water system had individuals making operational decisions and changes to the water system who were not under the direct supervision of a properly certified chief operator as required by Missouri Safe Drinking Water Regulation 10 CSR 60-14.010(4).

At the time of inspection, it Department was notified by Lori Jean and customers within the water system that the owner of the system was making operational decisions and changes to the water system without the knowledge or consent of the certified chief operator. These primarily included shocking of the water system with chlorine and other unknown work around the system. Customers noted their water "smelled like a swimming pool" for days prior to the inspection and noted increased activity from Travis Blevins around the system.

Missouri Safe Drinking Water Regulations requires all community and nontransient noncommunity public water systems to have an operator with the appropriate level of certification, to be in charge of each treatment facility and each distribution system. Any personnel making changes to the treatment processes or the distribution must be under the direct supervision of the chief operator.

Report of Inspection Charity PWS July 18, 2023 Page 7 of 15

REQUIRED ACTION: Non certified members of the water system must immediately cease operational activities associated with the water system and ensure the certified chief operator is making all operational decisions or supervising others prior to changes being made. Please notify the Department, in writing, of the system's plan to ensure this remains the case in the future.

2. The well head is inadequately sealed and can allow contaminants into the well. Specifically, there is an opening in the electrical conduit (Photo #7). This is a Significant Deficiency under 10 CSR60-4.025(4), and requires an immediate response.

At the time of the inspection, there was an opening in the electrical conduit of Highway PP Well #2.

REQUIRED ACTION: Make necessary repairs to the electrical conduit so there is no longer an opening in the well. Upon completion of the repairs, send documentation to CFO showing the repair.

#### **Unsatisfactory Findings**

-For-all-Unsatisfactory-Findings-listed-below, a written response documenting actions taken to correct the violations is required by August 17, 2023.

 The system must apply for a Permit to Dispense Water to the Public as required by Missouri Safe Drinking Water Regulation 10 CSR 60-3.010 and 640.115, RSMo.

All water systems dispensing water to the public, which meet the definition of a Public Water System, are required to obtain a valid Permit to Dispense Water to the Public from the Department.

REQUIRED ACTION: At the current time, the system is ineligible to receive a Permit to Dispense due to the Department still being in the process of making the necessary well determinations. Upon completion of the well determinations, the system must complete the necessary steps, then to be outlined by the Department completion of the noncompliant well agreement outlined in Unsatisfactory Finding five, soon to be issued by the Department, you can submit a Permit to Dispense Application to the Department for review.

The water system failed to pay Laboratory Service and Program Administration Fees
to the Department for 2023 as required by Missouri Safe Drinking Water Regulation 10
CSR 60-16.030.

Section 640.100.3, RSMo and Public Drinking Water Regulation 10 CSR 60-16.030 require Public Water Supplies to pay an annual fee for laboratory services. These fees help pay for only a portion of the cost involved in providing laboratory analysis for all of the samples collected each year.

REQUIRED ACTION: The water system must submit payment of Laboratory Service and Program Administration Fees for 2023, see enclosed, to the following address:

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> Missouri Department of Natural Resources DAS Accounting Program P.O. Box 477 Jefferson City, MO 65102

If you have any questions regarding Laboratory Service and Program Administration Fees, please contact the Water Protection Program's Fiscal Management unit at 573-751-6723.

3. The water system must develop a bacteriological site sampling plan in accordance with 10 CSR 60-4.022(3)(A).

Missouri Safe Drinking Water Regulation 10 CSR 60-4.022(3)(A) requires all public water systems must develop a site sampling plan for the collection of samples for the monthly bacteriological samples. The site plan must consist of a list of routine sample sites where a sample may be collected, along with a map showing the location of the sample sites. The repeat upstream and repeat downstream sites must also be listed for each routine sampling site. Repeat sampling sites should be located within five service connections from the routine sampling site. The routine sampling sites must be spread out across the distribution system so the samples can be representative of the water in all areas of the water system.

REQUIRED ACTION: The water system is to develop a written bacteriological site sampling plan and submit this to CFO for review and approval. Please refer to the enclosed instructions for details on how to develop a written bacteriological site sampling plan.

4. The water system does not have a plan or provisions for a standby chief operator, with the proper certification, to take over operation of the water system in the even the current chief operator is not available, on leave, ill or resigns. This is a required by Missouri Safe Drinking Water Regulation 10 CSR 60-14.010(4)(A)(6).

Missouri Safe Drinking Water Regulations requires all community and nontransient noncommunity public water systems to have an operator with the appropriate level of certification, to be in charge of each treatment facility and each distribution system. Any personnel making changes to the treatment processes or the distribution must be under the direct supervision of the chief operator. Regulations also specify that public water systems must have a contingency plan for standby replacement chief operator to be available at all times. This can be a second employee certified to the appropriate level, a mutual assistance agreement with a neighboring system, or an arrangement with a contract operator.

REQUIRED ACTION: The water system must develop this contingency plan and notify CFO of the standby chief operator (or operators). The contingency plan should be reviewed no less than annually and be part of the system's emergency operations plan.

5. Wells #1, #2, #3, and #4 are not constructed to standards for a Public Water Supply, and have not been approved as a drinking water source as required by Missouri Statute 640.115(1) and Missouri Code of Regulations Missouri Safe Drinking Water Regulation 10 CSR 60-3.010.

Report of Inspection Charity PWS July 18, 2023 Page 9 of 15

All wells used by the water system were drilled prior to June 15, 2013, to either multi-family or domestic standards. Since the wells do not meet the construction standards required for a public water system, the sources (or wells) are considered "noncompliant" for use as a public water system.

Wells serving community water systems prior to October 1, 1979, are considered grandfathered. Wells drilled after the October 1, 1979, grandfather date but before June 15, 2007, that do not meet Design Guide standards, or pre-October 1, 1979, but not serving community water systems until after that date but before June 15, 2007, are considered noncompliant. These wells can continue to be used to supply a community public water system if the water supplier enters into a Compliance Agreement with the Department.

REQUIRED ACTION: The Department is willing to work with you to develop a legal agreement that that will allow the continued use of the wells provided they meet certain provisions. The Public Drinking Water Branch's Compliance and Enforcement Section will be contacting you to assist you in developing this agreement. For continued use of the wells, you must sign and complete the required steps as laid out in the agreement.

Please submit the required material to Central Field Operations ATTN: Sebastien Clos-Versailles by-mail-at-the-Missouri-Department-of-Natural-Resources, Central-Field-Operations, P.O.-Box—176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at DNRCFO.PDW@dnr.mo.gov.

#### Recommendations

 The water system does not have a backflow and cross connection prevention program, ordinance, or user agreement in place to ensure compliance with 10 CSR 60-11.010(2).

Community water systems are required to ensure that customers with backflow hazards have appropriate backflow prevention devices installed, have the devices tested annually and submit proof of the test to the public water system. The aim of a backflow and cross connection prevention program is to protect the customers and the water system from potential contamination that could result from reversals of flow between the public water distribution systems and non-potable sources or chemical contaminant sources. One tool can be an ordinance or user agreement adopted by the water system specifying the requirements for customers. Such an ordinance or agreement may not be less stringent that required by Missouri Safe Drinking Water Regulations. Water systems can make some requirements more stringent than the minimum set by the regulation. For example many water systems have designated all in-ground irrigation systems as Class 1 hazards. A copy of a model ordinance has been enclosed for assistance.

Additionally, the water system should develop procedures to identify new hazards as residential and commercial buildings are constructed and existing hazards not currently tracked by the water system. The water system may use surveys and other available resources to identify existing hazards that are not currently being tracked. The water system may also create set anniversary dates for facilities in order to ensure compliance with the backflow requirements. Water systems are given this ability under 10 CSR 60-11.010(8)(C).

Report of Inspection Charity PWS July 18, 2023 Page 10 of 15

The water system should develop and enact a backflow prevention program.

The water system does not have a main disinfection and leak repair program to ensure proper disinfection of all newly constructed or repaired water distribution mains as recommended by the Department.

At the time of inspection, the water system did not have a main disinfection and leak repair program. Missouri Safe Drinking Water Regulation 10 CSR 60-4.080(5) requires all new or repaired water mains to be disinfected by methods acceptable by the department. At this time, the Department recognizes the standards of the latest edition of the American Water Works Association (AWWA).

The water system should develop a main disinfection program and leak repair program to be used by staff and contractors. The procedures should include adequate flushing, disinfection and microbiological testing of all water mains. In addition to main disinfection, the water system should maintain records of each repair including, location, date of repair, probable cause, materials used, method of repair, and estimated water loss. The program should also include guidelines and procedures for issuing a Boil Advisory, notification to the Department, and reporting low pressure events.

3. A written main flushing program should be established to help ensure water quality to all portions of the distribution system.

At the time of inspection, the water system was not conducting flushing at all. Routine flushing of water distribution piping removes deposits and sediments in the water that may restrict flow and cause water quality issues. A whole system flush should be conducted at least once a year with flushing starting at the master meter and working out toward the extremities of the system. The water system should notify the wholesale provider and customers prior to beginning the flushing. Flushing should be conducted during periods of low water demand and when weather is suitable (spring or fall) to reduce inconvenience to customers. The water system should record all water used during flushing events and include this as accounted for water in monthly water loss calculations.

4. The water system needs to develop and maintain an updated map of all distribution piping, valves, and flush hydrants.

At the time of the inspection, the water system was unable to provide an updated map of the distribution system. A detailed map of the distribution piping showing the location, size, and type of existing piping, valves, flush hydrants, and service connections is needed to maintain the water distribution system piping. It is important that distribution piping is located on a map in case of water leaks, and to locate piping in order to prevent accidental damage and contamination of the water system.

Report of Inspection Charity PWS July 18, 2023 Page 11 of 15

The water system has a flat rate for water service. For a sustainable water system, each service connection should be individually metered so that each customer pays for what they actually use.

Individual meters can be installed at locations even if the connection is an unbilled connection. Individual meters are important for figuring water loss for a water system. Water loss represents lost revenue for the water system, and may indicate main leaks which cause a loss of pressure and pose a potential risk for backflow.

The water system should consider installing individual meters. For assistance with setting an adequate rate for service, the water system can contact the Missouri Rural Water Association, who can run a rate analysis for your public water system. For more information, contact the CFO Public Drinking Water Unit at 573-522-3322.

6. Charity Well #3 has a crack in the well cap (Photo #1).
While the seal is tight and the well cap did not move, the crack in the well cap could be a way for contaminants to be introduced into the well.

The Department recommends the system replace the well cap.

7. A check valve is not installed on the discharge piping of any of the wells.

Check valves allow water to only flow in one direction, and protect the ground water supply from contamination caused by back siphoning or back flow. The lack of a check valve between the well and the distribution system places undue stress on the pump's internal valves and could shorten their service life. Should the foot-valve on the well pump fail, water would flow back down the well until the loss of pressure calls for the well to start and repressurize the system. The system would cycle continuously until the motor burns out.

A check valve should be installed on the discharge piping after the well and prior to any other components.

8. Drawdown measuring equipment is not installed and/or conducted on any of the wells.

Drawdown measuring equipment installed on each well allows the water system to periodically measure the static and pumping water levels of each well. Regular drawdown measurements can help identify declining water levels in wells, the need to lower a well pump to prevent costly damage, or the plugging of a well screen. Regular drawdown tests can save the water system money from costly well pump replacements and predict a well ability to produce enough water to meet water needs. Instructions by the National Rural Water Association on how to conduct drawdown measurements can be obtained by contacting the KCRO Public Drinking Water Unit, or on the internet at <a href="http://www.cadroughtprep.net/images/Drought/Well%20Drawdown.pdf">http://www.cadroughtprep.net/images/Drought/Well%20Drawdown.pdf</a>.

Report of Inspection Charity PWS July 18, 2023 Page 12 of 15

#### 9. Flow meters are not installed and/or recorded regularly on any of the wells.

Totalizing flow meters should be installed on the discharge piping of each well and recorded weekly. Regular meter readings can reveal excessive pumping that may indicate a water leak or other problems with the water system. Regular recording water use from each well will also provide information for the water system to determine if storage capacity or disinfection contact time is sufficient.

#### 10. None of the wells have the ability to pump to waste.

Currently, none of the wells are set up with piping to allow it to be pumped to waste. The system should modify the discharge piping to allow the wells to be pumped to waste in the event of contamination, well disinfection, or after maintenance has been performed. As a reminder, any alteration to the well discharge piping requires construction approvals from the Department prior to any modifications.

## 11. At the time of the inspection, water system staff indicated that Highway PP Well #2 was no longer in use, but the well has not been properly sealed.

Failure to properly plug all inactive well(s) can present a contamination threat to groundwater and for active wells. Plugging of abandoned wells or those which can no longer be used is required by Missouri Well Construction Regulation 10 CSR 23-3.110.

The water system should properly plug the inactive well(s), and submit proof of proper plugging to CFO. Please submit form MO 780-1603, available online at <a href="https://dnr.mo.gov/document-search/water-well-heat-pump-plugging-registration-report-mo-780-1603">https://dnr.mo.gov/document-search/water-well-heat-pump-plugging-registration-report-mo-780-1603</a>. Please contact the Department's Well Installation Section office in Rolla at 573-368-2165 for more information regarding well plugging requirements. All wells no longer utilized must be properly plugged by a licensed well driller. The line from the well to the water system must be severed and capped. If the well is to be plugged, the system must notify CFO upon plugging.

## 12. The well houses containing the discharge piping and bladder tanks for Highway PP Wells #1 and #2 is not equipped with a locking door.

All critical areas should be locked in order to prevent tampering, vandalism, and possible contamination. Keys to the water system facilities should only be made available to key water system personnel, and should be guarded to prevent unauthorized access.

#### 13. The well house for Highway PP Well #2 is poorly maintained.

The well house was in a state of disarray. The concrete well house was overgrown and not kept locked. Such a situation increases the difficulty of proper maintenance and operation and can lead to potential deterioration and damage to your equipment.

The water system should clean well house and maintain it in a neat and orderly condition,

Report of Inspection Charity PWS July 18, 2023 Page 13 of 15

## 14. All bladder tanks lack necessary bypass piping and/or isolation valves to continue operation if the tanks were out of service for repair or maintenance.

Bypass piping is necessary for the water system to take the tank out of service for repairs or painting, and to continue to properly operate. Each individual tank should be equipped with sufficient piping, shutoff valves and drains to allow each individual tank to be taken offline, drained, repaired, painted, or replaced without causing loss of pressure in the distribution system. No drain shall have a direct connection to a sewer or storm drain.

The water system should install bypass piping and the necessary valves and controls as soon as practical.

### 15. The surface of the two 86-gallon bladder tanks at Well #2 are corroding.

Failing to control corrosion of the hydro pneumatic tank may result in failure of the tank and cause unnecessary water outage and premature replacement of the tank. This would also result in an unnecessary expense that minor maintenance could have prevented.

The water system should clean and repaint the tank (with a rust preventing paint) as soon as possible. Caution must be used in the cleaning of the pressure tank when it is in use. It may be advisable to turn the system off and release the pressure before the cleaning and painting process. This is a pressure vesicle, and fifty pounds per square inch translates to 3.5-tons per square foot.

#### 16. There was standing water in the valve vault where the valve between the distribution systems of Wells #3 and #4 is located.

It is recommended that valve vaults be drained to daylight to prevent flooding and standing water, which can accelerate the rusting of the pipes and other components. This also presents another work hazard for the repair crew.

The water system should consult with their engineer and operators to discuss a means to provide a drain to daylight for the vault, or if a sump pump can be installed.

#### Additional Comments/Conclusion

On March 1, 2019, amendments to the Missouri Safe Drinking Water Regulation were implemented which directly affect 10 CSR 60 Chapters 3, 4, 6-9, 11, 13, and 14. Personnel should review these regulation amendments and implement all applicable changes as they apply to the public water system. The amendments can be reviewed here: <a href="https://www.sos.mo.gov/adrules/csr/current/10csr/10csr">https://www.sos.mo.gov/adrules/csr/current/10csr/10csr</a>.

The EPA reported that the State of Missouri is among the top 25 percent of states affected by federal flooding declarations. This was noted during a March 31, 2015, webinar on EPA's new Flood Resilience: A Basic Guide for Water and Wastewater Utilities, which was hosted by the Association of State Drinking Water Administrators and the EPA. The Flood Resilience Guide is geared towards helping small to medium sized water and wastewater utilities prepare for, and

Report of Inspection Charity PWS July 18, 2023 Page 14 of 15

recover from, a flood event. This interactive guide is available online at: <a href="https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility">https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility</a>. For more information on emergency planning, visit <a href="http://water.epa.gov/infrastructure/watersecurity/emerplan/">http://water.epa.gov/infrastructure/watersecurity/emerplan/</a>.

All major water users are required by law to register water use annually. The Department of Natural Resources does not regulate the use of water — only the amount of water a major water user has the potential to use. Missouri shares water resources with many other states, some of which regulate water use and have already established their demand for water. It is important for Missouri to document our need for water and to protect our right to that water. Registering major water use establishes a user's need for water and helps the Department understand the water needs of Missouri citizens. Registration is required by all persons, firms, and corporations with the capacity to withdraw or divert 100,000 gallons or more per day or 70 gallons per minute from any combination of stream, river, lake, well, spring, or other water source. The purpose of sections 71.287 and 256.400 to 256.430 is to ensure the development of information required for the analysis of certain future water resource management needs such as the Missouri State Water Plan. Information about the plan may be found at: <a href="https://dnr.mo.gov/water/what-were-doing/water-planning/missouri-water-resources-plan">https://dnr.mo.gov/water/what-were-doing/water-planning/missouri-water-resources-plan</a>. To register online or for mail-in forms go to: <a href="https://dnr.mo.gov/document-search/major-water-use-registration-mo-780-2019">https://dnr.mo.gov/document-search/major-water-use-registration-mo-780-2019</a>. For further information or questions, contact the Water Resources Center at 573-368-2100.

Missouri Public Drinking Water Regulation 10 CSR 60-3.010 requires all public water systems to submit a construction application with engineered plans and specifications to the Department for review and approval prior to any new construction, modification, alteration, or extension of your water system source, treatment, storage, or distribution piping. This requirement includes modifications made to your treatment process that would significantly change or alter plant capacity or treatment processes. Adding, removing, or changing chemical additives and/or their injection locations may significantly alter your treatment process. Water systems must notify the Department at least 60 days in advance of making any changes to the treatment process. Please make sure your water system has written approval prior to beginning any construction or modifications. Permits and construction specifications can be found at: <a href="https://dnr.mo.gov/env/wpp/pdwb/permits.htm">https://dnr.mo.gov/env/wpp/pdwb/permits.htm</a>. For further information or questions, contact the Permits and Engineering Section at 573-751-5331.

Missouri Public Drinking Water Regulation 10 CSR 23-3.060(4) and 23-3.110(1) requires that any well that has not been in use for two or more years be permanently plugged and properly certified with the Missouri Geological Survey Well Installation Section. Contact the Well Installation Section for well plugging specifications at 573-368-2100.

Missouri Public Drinking Water Regulation 10 CSR 60-7.010(2) requires that public water systems notify the Department within 48 hours of a failure to comply with any regulation or monitoring requirement. Since Regulation 10 CSR 60-4.080(9) requires all public water systems to maintain a minimum pressure of 20 psi, all public water systems must notify the Department when pressures in their system fall below 20 psi.

Report of Inspection Charity PWS July 18, 2023 Page 15 of 15

If you have any questions or would like to schedule a time to meet with Department staff to discuss compliance requirements, please contact Sebastien Clos-Versailles by mail at the Missouri Department of Natural Resources, Central Field Operations, P.O. Box 176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>. For assistance with compliance issues or general technical assistance, you may also contact Central Field Operations at the above contacts.

#### Signatures

SUBMITTED BY:

Sebastien Clos-Versailles Environmental Inspector Central Field Operations REVIEWED BY:

Arthur Goodin, CHMM

Deputy Director

Division of Environmental Quality

#### Attachments:

Attachment #1 — Photographs #1 - #12

Attachment #2 - System Map

Attachment #3 - Permit to Dispense Application

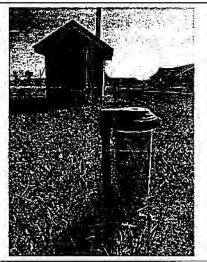
Attachment #4 - 2023 Lab Fees Invoice

Attachment #5 - Community Site Sampling Plan Guidance

Attachment #6 - Cross Connection Control Ordinance Template

Attachment #1 - Photographs Charity PWS July 18, 2023

Page 1 of 4



Photograph: #1.

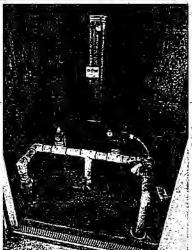
Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Charity PWS Permit: MO3036361 Location: Charity Well #3

Description: View of Well #3 and respective

well house behind



Photograph: #2.

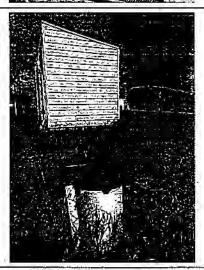
Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Charity PWS Permit: MO3036361

Location: Charity Well #3 Well house Description: View of Charity Well #3 discharge piping and respective 119-gallon

bladder tank



Photograph: #3.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

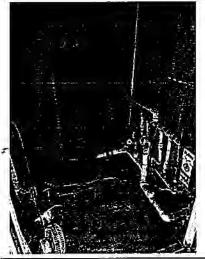
Entity: Charity PWS Permit: MO3036361 Location: Charity Well #4

Description: View of Charity Well #4 and

respective well house behind

Attachment #I - Photographs Charity PWS July 18, 2023

Page 2 of 4



Photograph: #4.

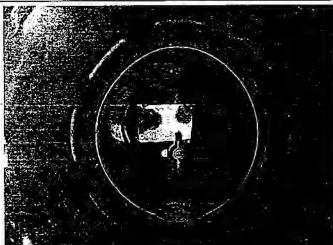
Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Charity PWS Permit: MO3036361

Location: Charity Well #4 well house Description: View of Charity Well #4 discharge piping and respective 86-gallon

bladder tank



Photograph: #5.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Charity PWS Permit: MO3036361

Location: Interconnection between Well #3 and

#4

Description: View of the flooded vault and valve between the distribution systems of Well

#3 and #4.



Photograph: #6.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

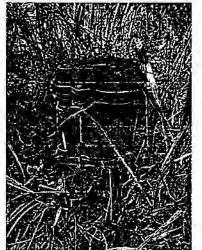
Entity: Charity PWS Permit: MO3036361

Location: Neighboring WEll

Description: View of the unsealed unused well on the lot near Charity Well #4, Note this well

is not a part of the water system.

Attachment #1 - Photographs Charity PWS July 18, 2023 Page 3 of 4



Photograph: #7.

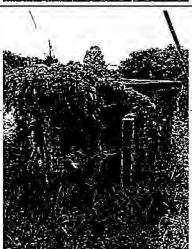
Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Charity PWS Permit: MO3036361

Location: Highway PP Well #2

Description: View of Highway PP Well #2. Note the opening in the electrical conduit.



Photograph: #8.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Charity PWS Permit: MO3036361

Location: Highway PP Well #2 well house Description: View of the well house for

Highway PP Well #2



Photograph: #9.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

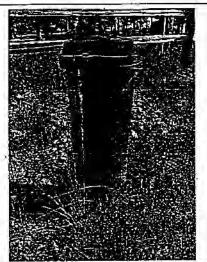
Entity: Charity PWS Permit: MO3036361

Location: Highway PP Well #2 well house Description: View of the discharge piping and respective two 86-gallon bladder tanks for

Highway PP Well #2

Attachment #1 - Photographs Charity PWS July 18, 2023

Page 4 of 4



Photograph: #10.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Charity PWS Permit: MO3036361

Location: Highway PP Well #1

Description: View of the Highway PP Well #1



Photograph: #11.

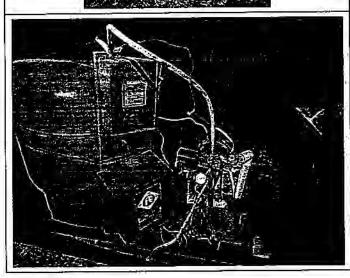
Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Charity PWS Permit: MO3036361

Location: Highway PP Well #1 well house Description: View of the Highway PP Well #1

well house



Photograph: #12.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Charity PWS Permit: MO3036361

Location: Highway PP Well #1 well house Description: View of the discharge piping and respective 34-gallon bladder tank for the

Highway PP Well #1

Attachment #2 – System Map Misty Mountain PWS July 18, 2023 Page 1 of 1

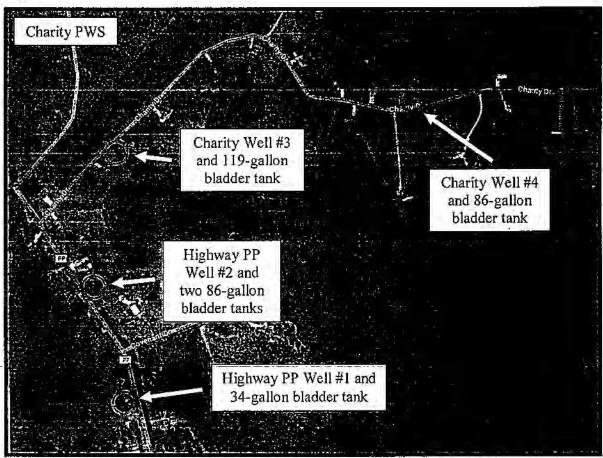


Figure 1: Overhead view of the Charity public water system. Image courtesy of Google Maps.



Michael L. Parson Governor

> Dru Buntin Director

July 18, 2023

Rolling Hills PWS
Travis Blevins
15405 Texas Road
St. Robert, MO 65584
Via email at leontravis@yahoo.com

#### SIGNIFICANT DEFICIENCIES and UNSATISFACTORY FINDINGS RESPONSE REQUIRED

Dear Travis Blevins:

On June 20, 2023, team members from the Missouri Department of Natural Resources conducted an inspection of Rolling Hills PWS, located on Rolling Hills Road in Pulaski County. The entity operates under the authority of Rolling Hills PWS, MO3036362.

Compliance with the Missouri Safe Drinking Water Law was evaluated. The enclosed report is being-issued with Significant Deficiencies for the violations identified in the enclosed report.

Please direct your attention to the Compliance Determination and Listing of Violations and Required Actions in the enclosed report. The report documents the findings and the actions that you must take to address the violations. A written response documenting actions taken to correct the violations is required by the date specified in the report.

Failure to address the required actions will result in the issuance of a Notice of Violation. If you have any questions or would like to schedule a time to meet with a Department team member to discuss compliance requirements, please contact Sebastien Clos-Versailles by mail at the Missouri Department of Natural Resources, Central Field Operations, P.O. Box 176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>.

Sincerely,

CENTRAL FIELD OPERATIONS

Sebastien Clos-Versailles Environmental Supervisor

Enclosure: Report of Inspection

e: Public Drinking Water Branch, Compliance and Enforcement Unit

Public Drinking Water Branch, Monitoring Unit

Pulaski County Health Department

Lori Jean, Operator

## **Compliance Summary**

Facility Name: Rolling Hills PWS Permit Number: MO3036362 Inspection Date: June 20, 2023

This summary is intended to direct your attention to violations noted during the inspection of your facility.

#### Violations noted during the inspection:

- 1. Non-certified individual making operational decisions for the water system
- 2. Opening in the electrical conduit for Well #1
- 3. No Permit to Dispense Water to the Public
- 4. System failed to pay lab fees for 2023
- 5. System does not have a site sampling plan
- 6. System does not have a plan for a backup operator
- 7. All wells being used are considered noncompliant wells

#### Actions necessary to return to compliance:

- Beginning immediately, non-certified individuals must cease work on the water system
  without proper supervision from the certified chief operator and must notify the
  Department of their plan to do so
- 2. Properly seal the opening in Well #1's electrical conduit
- Upon completion of the noncompliant well agreement, apply for a Permit to Dispense Water
- 4. Pay the laboratory fees for the 2023 calendar year
- 5. Establish a satisfactory site sampling plan, which includes sufficient sample locations, identified repeat locations, a sample schedule and a map of the sample locations
- 6. Determine a plan for a backup chief operator or identify an individual as the certified backup operator
- 7. Sign the noncompliant well agreements for each well associated with the system upon receipt from the Department and satisfy the requirements laid out within

Refer to the Significant Deficiencies and Unsatisfactory Findings sections on pages five through eight of the enclosed report for detailed information about these violations and how to correct them so your facility may be returned to compliance.

We appreciate your prompt attention to these issues. If you have any questions, or if you would like to meet to discuss these violations further, please contact Sebastien Clos-Versailles at Central Field Operations at (573) 522-3322 or at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>.

# Missouri Department of Natural Resources Central Field Operations Report of Inspection Rolling Hills PWS Rustler Lane, Richland, Pulaski County PWS ID# MO3036362 July 18, 2023

#### Introduction

I, Sebastien Clos-Versailles, of the Missouri Department of Natural Resources' Central Field Operations (CFO), conducted a routine Compliance and Operations Inspection of the Rolling Hills public water system. The inspection was conducted on June 20, 2023, with the following participants:

Rolling Hills PWS

Travis Blevins

Owner

573-855-2769

Lori Jean

Chief Operator

417-425-9343

Missouri Department of Natural Resources

Sebastien Clos-Versailles

Environmental Supervisor

573-526-0459

Jackie Johnson

Environmental Specialist

573-751-4414

sebastien.clos-versailles@dnr.mo.gov

jackie.johnson@dnr.mo.gov

This inspection was conducted to determine whether the system is operated and maintained in compliance with the Missouri Safe Drinking Water Law and the Missouri Safe Drinking Water Commission Regulations, in accordance with 640.120.5, Revised Statutes of Missouri. This inspection reviewed all eight critical components of a public water system, as defined by the Environmental Protection Agency (EPA). Required actions to correct deficiencies found during this inspection, as well as any recommendations, are described in this report.

#### Entity Description and History

Rolling Hills PWS is a community public water system requiring an operator with a Distribution I certification. The system is located on Rustler Lane, Richland, MO 65556. The water system serves approximately 48 customers through 19 active service connections. This is a primary ground water system with 1 well and 2 86-gallon bladder tanks. The system operates year round and produces an unknown amount of water per day.

The Department activated the system in July, 2022. At the time of activation, the system had two wells. On August 2022, Travis Blevins notified the Department that they sold the second well, which fed a separate distribution system, associated with the Rolling Hills PWS to the homeowner, and the Department subsequently removed the well from the system. Since activation, the system has failed to pay the lab fees for 2023.

Report of Inspection Rolling Hills PWS July 18, 2023 Page 2 of 12

#### Discussion of Inspection and Observations

As part of the inspection, I reviewed the files for Rolling Hills PWS, MO3036362, including previous inspection reports, correspondence, and the status of the Permit to Dispense to familiarize myself with the requirements specific to this system. Prior to the inspection, I called Lori Jean to set up the drinking water inspection for Rolling Hills PWS; after a brief discussion of the scope of the inspection, we set the inspection date for June 20, 2023.

Jackie Johnson and I met Lori Jean and Travis Blevins at the main office and reviewed the system files before Lori Jean, Jackie Johnson, and I proceeded to view Well #1 and the respective two 86-gallon bladder tanks. As part of the inspection, I collected a routine bacteriological drinking water sample from sample point #02. I delivered the sample to the Missouri State Public Health Lab for analysis.

My observations from the inspection of the Rolling Hills public water system are organized according to the eight critical components of public drinking water systems: System Management and Operation, Operator Certification, Monitoring and Reporting, System Source, System Treatment, Pumping Facilities, Finished Water Storage, and Distribution System.

System Management and Operation

At the time of inspection, it came to the attention of the Department that the system's chief operator was not always in charge of operating the water system and individuals not appropriately certified as Distribution System I operators were making changes to the water system (Significant Deficiency #1). The system does not have a Permit to Dispense Water to the Public (Unsatisfactory Finding #1). The system has not paid laboratory fees for 2023 (Unsatisfactory Finding #2). The system does not have a satisfactory site sampling plan (Unsatisfactory Finding #3). The system does not have a cross connection control program (Recommendation #1). The system does not have a leak repair procedure (Recommendation #2) and does not have a flushing program (Recommendation #3). The system does not have a map of the distribution system (Recommendation #4). The system does not have each connection individually metered, so they cannot calculate water loss (Recommendation #5).

#### Operator Certification

The chief operator is Lori Jean; Certification ID #9729, Distribution System II, Treatment C. The system does not have a backup operator or a plan in place should their chief operator be unavailable (Unsatisfactory Finding #4).

#### Monitoring and Reporting

The system has done a commendable job collecting all the required bacteriological and chemical samples.

Report of Inspection Rolling Hills PWS July 18, 2023 Page 3 of 12

Review Table #1, below, for the Rolling Hills PWS analyte monitoring schedule.

Analyte	Number of Sample(s)	Frequency	Next Scheduled Action
Bacteria	1	Monthly, Wells & Distribution System	Every month, every year
Nitrate/Nitrite	ı	Every year per Well	2023
Synthetic Organic Chemicals (SOC)	1	Every six years per Well	2028
Volatile Organic Chemicals (VOC)	1	Every three years per Well	2025
Inorganic Chemicals (IOC)	1	Every three years per Well	2025
Lead & Copper Analysis	5	Every six months from the Distribution System	2023
Radionuclides	1	Every nine years per Well	2031
Glyphosate	1	Every nine years per Well	2031

#### System Source

The system has one noncompliant well that it uses as its primary source of water (Photo #1). The Department determined the well is noncompliant but has not yet issued the noncompliant well agreement to the system. Additional information on well specifications and appurtenances is available in Table #2 and #3.

To the second se			Ž	Table # Vell Specifi	2 cations			
Well ID	Installation Date	Casing Depth (fi)	Casing Diameter (in)	Total Depth (ft)	Pump Capacity (gpm)	Pump Type	WIMS Record ID	State Approved
WeII #1	02/11/2007	160	6	445	10	Submersible	00402070	N/A

					Weil-A	ible#s jourenan	oes a				
Well Heli	Breather Vent		Saindle Telpt-	Accests Heigh	Epholos Protestor	Guing II) altore ground taxel	iminion Valve	Affestie George	Diawiowa Grugo	Chelly Willye	Master Meter
Well #1	Y-	N	Y	N/A		Y	Y	Y	N	N	N

At the time of inspection, there was an opening in the electrical conduit for Well #1 (Significant Deficiency #2)(Photo #2). The system is using a noncompliant well as its primary source of water (Unsatisfactory Finding #5). The well does not have a check valve (Recommendation

Report of Inspection Rolling Hills PWS July 18, 2023 Page 4 of 12

#6), a drawdown gauge (Recommendation #7), or a master meter (Recommendation #8). The well's discharge piping is not set up to allow the well to pump to waste (Recommendation #9). The well house for the discharge piping of Well #1 and the respective bladder tanks is not locked (Recommendation #10).

System Treatment

The system does not treat the water.

Pumping Facilities

The system does not have any pumping facilities.

Finished Water Storage

The system has two 86-gallon bladder tanks that it uses as finished water storage and to provide pressure to the system (Photo #3).

At the time of inspection, neither of the bladder tanks had individual isolation valves (Recommendation #11).

Distribution System

There were no noted issues with the distribution system.

#### Sampling and Monitoring

As part of this Compliance and Operation Inspection, the following analyses were conducted to verify operational parameters for Rolling Hills PWS (Table #4). During the inspection, I collected a routine bacteriological sample, and measured the disinfectant residuals to verify that the system is meeting the operational and regulatory parameters required. Rolling Hills PWS does not use chlorine as the disinfectant in their treatment process. The sample was collected at sampling site #02, located at 24665 Rolling Hills. I took the sample to the Missouri State Public Health Lab for analysis.

Bacteriolog	Table #4 ical Sampl	The Party of the P	On Care	
Location	Free Residual	Totals Residuals mo/L	Total Goliform	CE Coli
02 – 24665 Rolling Hills	-	0.08	Absent	Absent

At the time of inspection, there was a detectable amount of total chlorine residual in the system. There were trace amounts of residual chlorine found in the water system, which was unexpected as the system is not a chlorinated system.

Report of Inspection Rolling Hills PWS July 18, 2023 Page 5 of 12

#### Compliance Determination, Violations, and Required Actions

Rolling Hills PWS was found to be out of compliance with the Missouri Safe Drinking Water Law and the Missouri Safe Drinking Water Commission Regulations, based upon observations made at the time of the inspection.

The Missouri Safe Drinking Water Regulations require the Department to identify specific Significant Deficiencies with water systems that require corrective actions. These significant deficiencies are defects in design, operation, or maintenance that can cause public health concerns, or have the potential to introduce contamination. The public water system must consult with the CFO by August 17, 2023 to determine what actions will be taken to correct each significant deficiency, otherwise a violation will be issued. The system must also contact the Department within 30 days of correcting a Significant Deficiency. The system has 120 days from the date of this letter to either complete the required corrective actions, or enter into an approved corrective action plan, which provides a schedule for completion of the remaining Significant Deficiencies. If the Significant Deficiency is not resolved within 120 days or another Department-approved date, then a violation will be issued. The system shall submit a written statement to the CFO by November 15, 2023, explaining what actions have been taken to correct the violations and prevent a reoccurrence in the future.

#### Significant Deficiencies

 The water system had individuals making operational decisions and changes to the water system who were not under the direct supervision of a properly certified chief operator as required by Missouri Safe Drinking Water Regulation 10 CSR 60-14.010(4).

At the time of inspection, Lori Jean notified the Department that the owner of the system was making operational decisions and changes to the water system without the knowledge or consent of the certified chief operator. These include, primary frequent unknown shocking of the water system with chlorine and unknown other work around the system.

Missouri Safe Drinking Water Regulations requires all community and nontransient noncommunity public water systems to have an operator with the appropriate level of certification, to be in charge of each treatment facility and each distribution system. Any personnel making changes to the treatment processes or the distribution must be under the direct supervision of the chief operator.

REQUIRED ACTION: Non certified members of the water system must immediately cease operational activities associated with the water system and ensure the certified chief operator is making all operational decisions or supervising others prior to changes being made. Please notify the Department, in writing, of the system's plan to ensure this remains the case in the future.

2. The well head is inadequately sealed and can allow contaminants into the well. Specifically, there is an opening in the electrical conduit (Photo #X). This is a Significant Deficiency under 10 CSR60-4.025(4), and requires an immediate response.

Report of Inspection Rolling Hills PWS July 18, 2023 Page 6 of 12

At the time of the inspection, there was an opening in the electrical conduit of Well #1.

REQUIRED ACTION: Make necessary repairs to the electrical conduit so there is no longer an opening in the well. Upon completion of the repairs, send documentation to CFO showing the repair.

#### **Unsatisfactory Findings**

For all Unsatisfactory Findings listed below, a written response documenting actions taken to correct the violations is required by August 17, 2023.

1. The system must apply for a Permit to Dispense Water to the Public as required by Missouri Safe Drinking Water Regulation 10 CSR 60-3.010 and 640.115, RSMo.

All water systems dispensing water to the public, which meet the definition of a Public Water System, are required to obtain a valid Permit to Dispense Water to the Public from the Department.

REQUIRED ACTION: At the current time, the system is ineligible to receive a Permit to
Dispense due to the Department determining the well serving the system to be noncompliant.
Upon completion of the noncompliant well agreement as outlined in Unsatisfactory Finding
five, soon to be issued by the Department, you can submit a Permit to Dispense Application
to the Department for review.

The water system failed to pay Laboratory Service and Program Administration Fees
to the Department for 2023 as required by Missouri Safe Drinking Water Regulation 10
CSR 60-16.030.

Section 640.100.3, RSMo and Public Drinking Water Regulation 10 CSR 60-16.030 require Public Water Supplies to pay an annual fee for laboratory services. These fees help pay for only a portion of the cost involved in providing laboratory analysis for all of the samples collected each year.

REQUIRED ACTION: The water system must submit payment of Laboratory Service and Program Administration Fees for 2023, see enclosed, to the following address:

Missouri Department of Natural Resources DAS Accounting Program P.O. Box 477 Jefferson City, MO 65102

If you have any questions regarding Laboratory Service and Program Administration Fees, please contact the Water Protection Program's Fiscal Management unit at 573-751-6723.

3. The water system must develop a bacteriological site sampling plan in accordance with 10 CSR 60-4.022(3)(A).

Report of Inspection Rolling Hills PWS July 18, 2023 Page 7 of 12

Missouri Safe Drinking Water Regulation 10 CSR 60-4.022(3)(A) requires all public water systems must develop a site sampling plan for the collection of samples for the monthly bacteriological samples. The site plan must consist of a list of routine sample sites where a sample may be collected, along with a map showing the location of the sample sites. The repeat upstream and repeat downstream sites must also be listed for each routine sampling site. Repeat sampling sites should be located within five service connections from the routine sampling site. The routine sampling sites must be spread out across the distribution system so the samples can be representative of the water in all areas of the water system.

REQUIRED ACTION: The water system is to develop a written bacteriological site sampling plan and submit this to CFO for review and approval. Please refer to the enclosed instructions for details on how to develop a written bacteriological site sampling plan.

4. The water system does not have a plan or provisions for a standby chief operator, with the proper certification, to take over operation of the water system in the even the current chief operator is not available, on leave, ill or resigns. This is a required by Missouri Safe Drinking Water Regulation 10 CSR 60-14.010(4)(A)(6).

Missouri Safe Drinking Water Regulations requires all community and nontransient noncommunity public water systems to have an operator with the appropriate level of certification, to be in charge of each treatment facility and each distribution system. Any personnel making changes to the treatment processes or the distribution must be under the direct supervision of the chief operator. Regulations also specify that public water systems must have a contingency plan for standby replacement chief operator to be available at all times. This can be a second employee certified to the appropriate level, a mutual assistance agreement with a neighboring system, or an arrangement with a contract operator.

REQUIRED ACTION: The water system must develop this contingency plan and notify CFO of the standby chief operator (or operators). The contingency plan should be reviewed no less than annually and be part of the system's emergency operations plan.

 Well #1 is not constructed to standards for a Public Water Supply, and has not been approved as a drinking water source as required by Missouri Statute 640.115(1) and Missouri Code of Regulations Missouri Safe Drinking Water Regulation 10 CSR 60-3.010.

Well #1 used by the water system was drilled on February 11, 2007, to domestic standards. Since the wells do not meet the construction standards required for a public water system, the source (or wells) is considered "noncompliant" for use as a public water system.

Wells serving community water systems prior to October 1, 1979, are considered grandfathered. Wells drilled after the October 1, 1979, grandfather date but before June 15, 2007, that do not meet Design Guide standards, or pre-October 1, 1979, but not serving community water systems until after that date but before June 15, 2007, are considered noncompliant. These wells can continue to be used to supply a community public water system if the water supplier enters into a Compliance Agreement with the Department.

Report of Inspection Rolling Hills PWS July 18, 2023 Page 8 of 12

REQUIRED ACTION: The Department is willing to work with you to develop a legal agreement that that will allow the continued use of the well provided it meets certain provisions. The Public Drinking Water Branch's Compliance and Enforcement Section will be contacting you to assist you in developing this agreement. For continued use of the well, you must sign and complete the required steps as laid out in the agreement.

Please submit the required material to Central Field Operations ATTN: Sebastien Clos-Versailles by mail at the Missouri Department of Natural Resources, Central Field Operations, P.O. Box 176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at DNRCFO.PDW@dnr.mo.gov.

#### Recommendations

1. The water system does not have a backflow and cross connection prevention program, ordinance, or user agreement in place to ensure compliance with 10 CSR 60-11.010(2).

Community water systems are required to ensure that customers with backflow hazards have appropriate backflow prevention devices installed, have the devices tested annually and submit proof of the test to the public water system. The aim of a backflow and cross connection prevention program is to protect the customers and the water system from potential contamination that could result from reversals of flow between the public water distribution systems and non-potable sources or chemical contaminant sources. One tool can be an ordinance or user agreement adopted by the water system specifying the requirements for customers. Such an ordinance or agreement may not be less stringent that required by Missouri Safe Drinking Water Regulations. Water systems can make some requirements more stringent than the minimum set by the regulation. For example many water systems have designated all in-ground irrigation systems as Class 1 hazards. A copy of a model ordinance has been enclosed for assistance.

Additionally, the water system should develop procedures to identify new hazards as residential and commercial buildings are constructed and existing hazards not currently tracked by the water system. The water system may use surveys and other available resources to identify existing hazards that are not currently being tracked. The water system may also create set anniversary dates for facilities in order to ensure compliance with the backflow requirements. Water systems are given this ability under 10 CSR 60-11.010(8)(C).

The water system should develop and enact a backflow prevention program.

The water system does not have a main disinfection and leak repair program to ensure proper disinfection of all newly constructed or repaired water distribution mains as recommended by the Department.

At the time of inspection, the water system did not have a main disinfection and leak repair program. Missouri Safe Drinking Water Regulation 10 CSR 60-4.080(5) requires all new or repaired water mains to be disinfected by methods acceptable by the department. At this time, the Department recognizes the standards of the latest edition of the American Water Works Association (AWWA).

Report of Inspection Rolling Hills PWS July 18, 2023 Page 9 of 12

The water system should develop a main disinfection program and leak repair program to be used by staff and contractors. The procedures should include adequate flushing, disinfection and microbiological testing of all water mains. In addition to main disinfection, the water system should maintain records of each repair including, location, date of repair, probable cause, materials used, method of repair, and estimated water loss. The program should also include guidelines and procedures for issuing a Boil Advisory, notification to the Department, and reporting low pressure events.

3. A written main flushing program should be established to help ensure water quality to all portions of the distribution system.

At the time of inspection, the water system was not conducting flushing at all. Routine flushing of water distribution piping removes deposits and sediments in the water that may restrict flow and cause water quality issues. A whole system flush should be conducted at least once a year with flushing starting at the master meter and working out toward the extremities of the system. The water system should notify the wholesale provider and customers prior to beginning the flushing. Flushing should be conducted during periods of low water demand and when weather is suitable (spring or fall) to reduce inconvenience to customers. The water system should record all water used during flushing events and include this as accounted for water in monthly water loss calculations.

4. The water system needs to develop and maintain an updated map of all distribution piping, valves, and flush hydrants.

At the time of the inspection, the water system was unable to provide an updated map of the distribution system. A detailed map of the distribution piping showing the location, size, and type of existing piping, valves, flush hydrants, and service connections is needed to maintain the water distribution system piping. It is important that distribution piping is located on a map in case of water leaks, and to locate piping in order to prevent accidental damage and contamination of the water system.

The water system has a flat rate for water service. For a sustainable water system, each service connection should be individually metered so that each customer pays for what they actually use.

Individual meters can be installed at locations even if the connection is an unbilled connection. Individual meters are important for figuring water loss for a water system. Water loss represents lost revenue for the water system, and may indicate main leaks which cause a loss of pressure and pose a potential risk for backflow.

The water system should consider installing individual meters. For assistance with setting an adequate rate for service, the water system can contact the Missouri Rural Water Association, who can run a rate analysis for your public water system. For more information, contact the CFO Public Drinking Water Unit at 573-522-3322.

Report of Inspection Rolling Hills PWS July 18, 2023 Page 10 of 12

#### 6. A check valve is not installed on the discharge piping of Well #1.

Check valves allow water to only flow in one direction, and protect the ground water supply from contamination caused by back siphoning or back flow. The lack of a check valve between the well and the distribution system places undue stress on the pump's internal valves and could shorten their service life. Should the foot-valve on the well pump fail, water would flow back down the well until the loss of pressure calls for the well to start and repressurize the system. The system would cycle continuously until the motor burns out.

A check valve should be installed on the discharge piping after the well and prior to any other components.

#### 7. Drawdown measuring equipment is not installed and/or conducted on Well #1.

Drawdown measuring equipment installed on each well allows the water system to periodically measure the static and pumping water levels of each well. Regular drawdown measurements can help identify declining water levels in wells, the need to lower a well pump to prevent costly damage, or the plugging of a well screen. Regular drawdown tests can save the water system money from costly well pump replacements and predict a well ability to produce enough water to meet water needs. Instructions by the National Rural

Water Association on how to conduct drawdown measurements can be obtained by contacting the KCRO Public Drinking Water Unit, or on the internet at <a href="http://www.cadroughtprep.net/images/Drought/Well%20Drawdown.pdf">http://www.cadroughtprep.net/images/Drought/Well%20Drawdown.pdf</a>.

#### 8. Flow meters are not installed and/or recorded regularly on Well #1.

Totalizing flow meters should be installed on the discharge piping of each well and recorded weekly. Regular meter readings can reveal excessive pumping that may indicate a water leak or other problems with the water system. Regular recording water use from each well will also provide information for the water system to determine if storage capacity or disinfection contact time is sufficient.

#### 9. Well #1 does not have the ability to pump to waste.

Currently, Well #1 is not set up with piping to allow it to be pumped to waste. The system should modify the discharge piping to allow the well to be pumped to waste in the event of contamination, well disinfection, or after maintenance has been performed. As a reminder, any alteration to the well discharge piping requires construction approvals from the Department prior to any modifications.

## 10. The well house containing the discharge piping and bladder tanks for Well #1 is not equipped with a locking door.

All critical areas should be locked in order to prevent tampering, vandalism, and possible contamination. Keys to the water system facilities should only be made available to key water system personnel, and should be guarded to prevent unauthorized access.

Report of Inspection Rolling Hills PWS July 18, 2023 Page 11 of 12

11. All bladder tanks lack necessary bypass piping and/or isolation valves to continue operation if the tanks were out of service for repair or maintenance.

Bypass piping is necessary for the water system to take the tank out of service for repairs or painting, and to continue to properly operate. Each individual tank should be equipped with sufficient piping, shutoff valves and drains to allow each individual tank to be taken offline, drained, repaired, painted, or replaced without causing loss of pressure in the distribution system. No drain shall have a direct connection to a sewer or storm drain.

The water system should install bypass piping and the necessary valves and controls as soon as practical.

#### Additional Comments/Conclusion

On March 1, 2019, amendments to the Missouri Safe Drinking Water Regulation were implemented which directly affect 10 CSR 60 Chapters 3, 4, 6-9, 11, 13, and 14. Personnel should review these regulation amendments and implement all applicable changes as they apply to the public water system. The amendments can be reviewed here: <a href="https://www.sos.mo.gov/adrules/csr/current/10csr/10csr">https://www.sos.mo.gov/adrules/csr/current/10csr/10csr</a>.

The EPA reported that the State of Missouri is among the top 25 percent of states affected by federal flooding declarations. This was noted during a March 31, 2015, webinar on EPA's new Flood Resilience: A Basic Guide for Water and Wastewater Utilities, which was hosted by the Association of State Drinking Water Administrators and the EPA. The Flood Resilience Guide is geared towards helping small to medium sized water and wastewater utilities prepare for, and recover from, a flood event. This interactive guide is available online at: <a href="https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility">https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility</a>. For more information on emergency planning, visit <a href="https://water.epa.gov/infrastructure/watersecurity/emerplan/">https://water.epa.gov/infrastructure/watersecurity/emerplan/</a>.

All major water users are required by law to register water use annually. The Department of Natural Resources does not regulate the use of water – only the amount of water a major water user has the potential to use. Missouri shares water resources with many other states, some of which regulate water use and have already established their demand for water. It is important for Missouri to document our need for water and to protect our right to that water. Registering major water use establishes a user's need for water and helps the Department understand the water needs of Missouri citizens. Registration is required by all persons, firms, and corporations with the capacity to withdraw or divert 100,000 gallons or more per day or 70 gallons per minute from any combination of stream, river, lake, well, spring, or other water source. The purpose of sections 71.287 and 256.400 to 256.430 is to ensure the development of information required for the analysis of certain future water resource management needs such as the Missouri State Water Plan. Information about the plan may be found at: <a href="https://dnr.mo.gov/water/what-were-doing/water-planning/missouri-water-resources-plan">https://dnr.mo.gov/water/what-were-doing/water-planning/missouri-water-resources-plan</a>. To register online or for mail-in forms go to: <a href="https://dnr.mo.gov/document-search/major-water-use-registration-mo-780-2019">https://dnr.mo.gov/document-search/major-water-use-registration-mo-780-2019</a>. For further information or questions, contact the Water Resources Center at 573-368-2100.

Report of Inspection Rolling Hills PWS July 18, 2023 Page 12 of 12

Missouri Public Drinking Water Regulation 10 CSR 60-3.010 requires all public water systems to submit a construction application with engineered plans and specifications to the Department for review and approval prior to any new construction, modification, alteration, or extension of your water system source, treatment, storage, or distribution piping. This requirement includes modifications made to your treatment process that would significantly change or alter plant capacity or treatment processes. Adding, removing, or changing chemical additives and/or their injection locations may significantly alter your treatment process. Water systems must notify the Department at least 60 days in advance of making any changes to the treatment process. Please make sure your water system has written approval prior to beginning any construction or modifications. Permits and construction specifications can be found at: <a href="https://dnr.mo.gov/env/wpp/pdwb/permits.htm">https://dnr.mo.gov/env/wpp/pdwb/permits.htm</a>. For further information or questions, contact the Permits and Engineering Section at 573-751-5331.

Missouri Public Drinking Water Regulation 10 CSR 60-7.010(2) requires that public water systems notify the Department within 48 hours of a failure to comply with any regulation or monitoring requirement. Since Regulation 10 CSR 60-4.080(9) requires all public water systems to maintain a minimum pressure of 20 psi, all public water systems must notify the Department when pressures in their system fall below 20 psi.

If you have any questions or would like to schedule a time to meet with Department staff to discuss compliance requirements, please contact Sebastien Clos-Versailles by mail at the Missouri Department of Natural Resources, Central Field Operations, P.O. Box 176, Jefferson City, MO 65102; by phone at 573-522-3322; or by email at <a href="mailto:DNRCFO.PDW@dnr.mo.gov">DNRCFO.PDW@dnr.mo.gov</a>. For assistance with compliance issues or general technical assistance, you may also contact Central Field Operations at the above contacts.

Signatures

SUBMITTED BY:

Sebastien Clos-Versailles Environmental Inspector Central Field Operations REVIEWED BY:

Arthur Goodin, CHMM

Deputy Director

Division of Environmental Quality

Attachments:

Attachment #1 - Photographs #1 - #3

Attachment #2 - System Map

Attachment #3 - Permit to Dispense Application

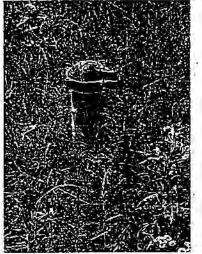
Attachment #4 - 2023 Lab Fees Invoice

Attachment #5 - Community Site Sampling Plan Guidance

Attachment #6 - Cross Connection Control Ordinance Template

Attachment #1 - Photographs Rolling Hills PWS July 18, 2023

Page 1 of 1



Photograph: #1.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Rolling Hills PWS Permit: MO3036362 Location: Well #1

Description: View of Well #1



Photograph: #2.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Rolling Hills PWS

Permit: MO3036362 Location: Well #1

Description: View of the opening in the

electrical conduit of Well #1



Photograph: #3.

Taken By: Sebastien Clos-Versailles

Date Taken: June 20, 2023 Program: Public Drinking Water

Entity: Rolling Hills PWS Permit: MO3036362

Location: Well #1 wellhouse

Description: View of the discharge piping and two 86-gallon bladder tanks associated with

Well #1

Attachment #2 – System Map Misty Mountain PWS July 18, 2023 Page 1 of 1

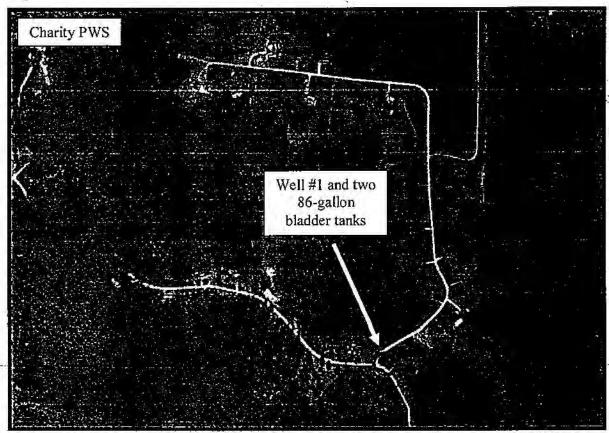


Figure 1: Overhead view of the Rolling Hills public water system. Image courtesy of Google Maps.



Michael L. Parson Governor

> Dru Buntin Director

February 24, 2023

CERTIFIED MAIL # 7019 0700 0001 2750 8328 RETURN RECEIPT REQUESTED

Travis Blevins, Operating Authority Misty Mountain PWS 15405 Texas Road PO Box 882 St. Robert, MO 65584

RE: Intention to Pursue Enforcement Action

Travis Blevins:

This letter serves as notification that the Missouri Department of Natural Resources intends to pursue formal enforcement action for violations of the Missouri Safe Drinking Water Law observed at Misty Mountain public water system located at 15405 Texas Road, St. Robert, Pulaski County, MO. The Department brought these violations to your attention in previous correspondence dated August 19, October 19, and November 17, 2022. The Central Field Operations Office referred this matter to the Department's Water Protection Program for review. We would like to meet with you to discuss your options for resolving these violations and to help you return to compliance.

As part of the formal enforcement process, the Department may draft and issue an administrative order to provide guidance to resolve the violations. This order may include the payment of penalties as part of resolution for the noncompliance issue. If we are unable to reach an agreement for resolving these violations, the Department has the authority to issue a unilateral order or to initiate referral of this matter to the Missouri Attorney General's Office for litigation.

I have assigned Jackie Johnson to be your case manager. She will be your point of contact and can assist you with developing a plan for returning to compliance. She can assist you with identifying options for required improvements or upgrades to your system. If you no longer want the responsibility of owning or managing Misty Mountain, consider whether you can connect to an existing State approved public water system or be purchased by a Utility company. Either option may relieve you of most or all of your responsibility. Jackie can provide you with contact information for State approved water systems and/or Utility companies in your area. If the required improvements are costly, Jackie can also assist you with identifying potential funding opportunities that may be available to help finance system improvements.

Travis Blevins Page 2

Jackie will contact you with the Department's offer to resolve your violations and to set up a meeting. However, you may contact her to discuss this matter at any time. You can reach her by telephone at 573-751-4414; by email at jackie.johnson@dnr.mo.gov; or by mail at Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176.

Thank you for your prompt attention to this matter. The Department looks forward to working with you to resolve these violations as expeditiously as possible.

Sincerely,

WATER PROTECTION PROGRAM

Lance Dorsey

Compliance and Enforcement Section Chief

LD/jhk

c: Sebastian Clos-Versailles, Unit Chief, Central Field Operations Lauren Graessle, Financial Assistance Center



Michael L. Parson Governor

> Dru Buntin Director

#### **MEMORANDUM**

DATE:

September 12, 2023

TO:

Lance Dorsey, Environmental Program Manager Compliance and Enforcement Section, PDWB

DV

FROM:

Diane Vitello, Environmental Program Manager

Permitting and Capacity Development Section, PDWB

SUBJECT:

Well Determination for Misty Mountain PWS, MO3036363, Pulaski County,

Review Number 3000049-22R

The Permitting and Capacity Development Section reviewed the well determination form and supporting documents for Misty Mountain PWS (MO3036363). Based on the information provided at the time of the review and the Department's 2012 memo titled "Regulation of Subdivisions Served by Multifamily or Domestic Drinking Water Wells", we are referring this system to the Compliance & Enforcement Section for formal enforcement of two domestic wells and three multi-family wells.

The Central Field Operations determined the above system located in St. Robert, Missouri (with wells located on different streets namely Topo Drive, Trisha Drive, Tigger Lane Street and Taylor Lane) meets the definition of a community public water system. Travis Blevins claims to own this public water system, however no deeds were provided during the review to prove ownership. According to the deeds obtained from the county assessor's office, Jeffery Boyd is the owner of land where Topo Drive Well is located. Despite this, Mr. Blevins is providing water service to residents in the area under the name "Misty Water Works". The system was activated on July 19, 2022, and consists of five wells with no treatment. The Permitting and Capacity Development Section received well determination forms from the Central Field Operations for this system on August 7, 2023. The well determination included the following wells:

- Well No. 1 Topo Drive (State ID WL 20295) The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well on November 1, 2007, State Certification Number A155329, as a domestic well with a completion date of March 29, 2007.
- Well No. 2 Trisha Drive (State ID WL 20296) The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well on July 10, 2007, State Certification Number A152087, as a multi-family well with a completion date of August 1, 2006.

- Well No. 3 Tigger Lane 1 (State ID WL 20297) The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well on July 10, 2007, State Certification Number A152086, as a multi-family well with a completion date of September 15, 2006.
- Well No. 4 Tigger Lane 2 (State ID WL 20298) The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well on November 3, 2011, State Certification Number A180865, as a domestic well with a completion date of August 15, 2011.
- Well No. 5 Taylor Lane (State ID WL 20299) The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well on June 26, 2006, State Certification Number A1431436, as a multi-family well with a completion date of April 30, 2006.

All five wells serve residential properties and may be eligible for a subdivision noncompliant well agreement. This system is required to demonstrate and maintain technical, managerial, and financial capacity in accordance with 10 CSR 60-3.030. If you have questions or need additional information, please contact Tasneem Khan by phone at 573-526-1137. Thank you.

Attachment 1 – Well No. 1 Determination Form and Well Certification Report Attachment 2 – Well No. 2 Determination Form and Well Certification Report Attachment 3 – Well No. 3 Determination Form and Well Certification Report Attachment 4 – Well No. 4 Determination Form and Well Certification Report Attachment 5 – Well No. 5 Determination Form and Well Certification Report

c: Central Field Operations Tracey Mason, Water Resources Center

## MISSOURI DEPARTMENT OF THE PUBLIC DRINKING WATER BRANCH MISSOURI DEPARTMENT OF NATURAL RESOURCES

### WELL DETERMINATION FORM

PROJECT NUMBER 3000049-22R DATE RECEIVED 8/7/2023

The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch that serve, or will serve, a public water system (PWS) and to identify the necessary agreements that must be in place to allow the PWS to obtain a permit to dispense from the Department. INSTRUCTIONS This form is for discovered water systems and existing PWS using a well without prior construction authorization. It is NOT necessary to complete this form for a PWS that obtained a construction permit in accordance with 10 CSR 60-3. The regional office shall complete Section 1. The regional office should also request any relevant documents related to the construction of the well from the PWS. Regional office must submit the form and supporting documents to tracey.mason@dnr.mo.gov. Water Resources Center shall complete Section 2 and include any additional supporting documents. Water Resources Center must submit the form and supporting documents to pdwb.engineeringwaterpermits@dnr.mo.gov Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual. 1. GENERAL INFORMATION (To be completed by the Regional Office) Type of Public Water System: Community Nontransient Noncommunity Transient Noncommunity PUBLIC WATER SYSTEM ID NO. ACTIVATION DATE PUBLIC WATER SYSTEM NAME MO3036363 07/19/2022 Misty Mountain PWS WELL OWNER (If different from Public Water System Owner) PUBLIC WATER SYSTEM OWNER Travis Blevins MAILING ADDRESS 15405 Texas Road, PO BOX 882 COUNTY ZIP CODE STATE Pulaski 65584 Missouri St. Robert DGLS LOGAVIMS ID LATITUDE LONGITUDE LOCAL WELL NAME -92.100086 00403720 37\_801778. Well #1 Topo Drive LOCATED < 50 FEET FROM SURFACE WATER? DATE DRILLED (If unknown, best estimate) SDWIS WELL SITE ID Yes No 03/29/2007 WL 20295 REGIONAL OFFICE CONTACT DATE 08/04/2023 Dalten Young ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION (To be completed by the Water Resources Center) Type of Well Drilled: Public Domestic Multi-family Pre-law Unknown CASING DEPTH (ft) CASING MATERIAL WELL YIELD (gpm) CASING SIZE (in) AQUIFER TOTAL DEPTH (fl) 38 120 Plastic 480 UNCONFINED AQUIFER? PUMP CAPACITY (gpm) If Alluvial, Screen Length: PUMP SIZE PUMP DEPTH (ft) ☐ Yes ☐ No ☐ Unknown 460 20 WIMS Record 00403720 □ Drillers Log ☐ Well/Pump Receipt ☐ Geology Log ☐ Building Date (Co. Assessor) ☐ Approval Letter ☐ Other ☐ Construction Plans WATER RESOURCES CONTACT DATE Tracey Mason 08/04/2023 ADDITIONAL COMMENTS

(0.1)	ted by the Public Drinking Water Branch	COBO WELL
PUBLIC WELL	GRANDFATHERED (PRE-LAW) WELL	Well serves a Charitable or Benevolent
Construction permit obtained; Yes, Review No No  Or  Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit:  Yes No NA	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity:  ☐ Yes ☐ No  If yes, well in continuous use (i.e, does NOT meet the definition of abandoned per RsMo 256.603):  ☐ Yes ☐ No	Organization (COBO), without a school of daycare:  Yes No  If yes, serves <100 people 60 days/year.  Yes No  If yes, constructed to Multi-family well standards 10 CSR 23-1,010:  Yes No  Please provide additional site-specific information in the comments section.
NONCOMPLIANT WELL POLICY ELIGIBLE	SUBDIVISION POLICY ELIGIBLE	UNAUTHORIZED WELL
Drilled after applicable Pre-Law date but before 6/15/07:  Yes No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  Yes No Please provide additional site-specific information in the comments section.	Drilled after applicable Pre-Law date but before 1/1/13:  Yes No  If yes, well(s) under common ownership: Yes No  If yes, constructed to Domestic or Multifamily standards 10 CSR 23-1.010: Yes No Unknown  Please list number of domestic wells, number of multifamily yells, and the number of connections for each well in the comments section below.	Well does not meet any other eligibility category in this section;  ☐ Yes ■ No  Please provide additional site-specific information in the comments section.
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PUBLIC DRINKING WATER BRANCH REVIEWER	SIGNATURE	DATE
PUBLIC DRINKING WATER BRANCH REVIEWER Tasneem Khan	SIGNATURE	DATE

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# MISSOURI DEPARTMENT OF NATURAL RESOURCES PUBLIC DRINKING WATER BRANCH

#### **WELL DETERMINATION FORM**

PROJECT NUMBER 3000049-22R DATE RECEIVED 8/7/2023

The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch that serve, or will serve, a public water system (PWS) and to identify the necessary agreements that must be in place to allow the PWS to obtain a permit to dispense from the Department. INSTRUCTIONS This form is for discovered water systems and existing PWS using a well without prior construction authorization. It is NOT necessary to complete this form for a PWS that obtained a construction permit in accordance with 10 CSR 60-3. The regional office shall complete Section 1. The regional office should also request any relevant documents related to the construction of the well from the PWS. Regional office must submit the form and supporting documents to tracey.mason@dnr.mo.gov. Water Resources Center shall complete Section 2 and include any additional supporting documents. Water Resources Center must submit the form and supporting documents to pdwb.engineeringwaterpermits@dnr.mo.gov Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual. 1. GENERAL INFORMATION (To be completed by the Regional Office) Type of Public Water System: 🔲 Community 🔲 Nontransient Noncommunity 🛄 Transient Noncommunity ACTIVATION DATE PUBLIC WATER SYSTEM ID NO. PUBLIC WATER SYSTEM NAME MO3036363 07/19/2022 Misty Mountain PWS WELL OWNER (If different from Public Water System Owner) PUBLIC WATER SYSTEM OWNER Travis Blevins MAILING ADDRESS 15405 Texas Road, PO BOX 882 ZIP CODE COUNTY CITY STATE St. Robert Missouri 65584 Pulaski DGLS LOGWIMS ID LATITUDE LONGITUDE LOCAL WELL NAME 00403720 Well #1 Topo Drive 37.801778 92,100086 LOCATED < 50 FEET FROM SURFACE WATER? SDWIS WELL SITE ID DATE DRILLED (If unknown, best estimate) TYes No WL 20295 03/29/2007 REGIONAL OFFICE CONTACT DATE 08/04/2023 Dalten Young ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION (To be completed by the Water Resources Center) Type of Well Drilled: Public Domestic Multi-family Pre-law Unknown TOTAL DEPTH (ft) CASING DEPTH (II) CASING SIZE (in) CASING MATERIAL WELL YIELD (gpm) AQUIFER 480 38 120 Plastic PUMP SIZE PUMP DEPTH (ft) UNCONFINED AQUIFER? PUMP CAPACITY (gpm) If Alluvial, Screen Length: ☐ Yes ☐ No ☐ Unknown 460 20 ■ WIMS Record 00403720 □ Drillers Log ☐ Well/Pump Receipt ☐ Geology Log Building Date (Co. Assessor) ☐ Approval Letter ☐ Other Construction Plans WATER RESOURCES CONTACT DATE Tracey Mason 08/04/2023 ADDITIONAL COMMENTS

PUBLIC WELL	eted by the Public Drinking Water Branch GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained:  Yes, Review No.  No  Or  Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit.  Yes \( \) No \( \) N/A	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  ☐ Yes ☐ No	Well serves a Charitable or Benevolent Organization (COBO), without a school or daycare:  Yes No  If yes, serves <100 people 60 days/year: Yes No  If yes, constructed to Multi-family well standards 10 CSR 23-1.010: Yes No  Please provide additional site-specific Information in the comments section.
NONCOMPLIANT WELL POLICY ELIGIBLE	SUBDIVISION POLICY ELIGIBLE	UNAUTHORIZED WELL
Drilled after applicable Pre-Law date but before 6/15/07:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603): ☐ Yes ☐ No  Please provide additional site-specific information in the comments section.	Drilled after applicable Pre-Law date but before 1/1/13;  Yes No  If yes, well(s) under common ownership: Yes No  If yes, constructed to Domestic or Multifamily standards 10 CSR 23-1,010: Yes No Unknown  Please list number of domestic wells, number of multi-family wells, and the number of connections for each well in the comments section below.	Well does not meet any other eligibility category in this section:  Yes No  Please provide additional site-specific information in the comments section.
ADDITIONAL COMMENTS	Section below.	-444
PUBLIC DRINKING WATER BRANCH REVIEWER Tasneem Khan	SIGNATURE	DATE
PUBLIC ORINKING WATER BRANCH UNIT CHIEF NAME  Brandon Bach	UNIT CHIEF SIGNATURE	08/14/23

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#### MISSOURI DEPARTMENT OF NATURAL RESOURCES **LIST PUBLIC DRINKING WATER BRANCH**

WELL DETERMINATION FORM

PROJECT NUMBER 3000049-22R DATE RECEIVED

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DATE

08/04/2023

Tracey Mason ADDITIONAL COMMENTS

WATER RESOURCES CONTACT

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PUBLIC DRINKING WATER BRANCH REVIEWER Tasneem Khan	SIGNATURE	DATE
	UNIT CHIEF SIGNATURE	08/14/23

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#### MISSOURI DEPARTMENT UP NATUR DID PUBLIC DRINKING WATER BRANCH MISSOURI DEPARTMENT OF NATURAL RESOURCES

WELL DETERMINATION FORM

PROJECT NUMBER 3000049-22R DATE RECEIVED

8/7/2023 The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch that serve, or will serve, a public water system (PWS) and to identify the necessary agreements that must be in place to allow the PWS to obtain a permit to dispense from the Department. INSTRUCTIONS This form is for discovered water systems and existing PWS using a well without prior construction authorization. It is NOT necessary to complete this form for a PWS that obtained a construction permit in accordance with 10 CSR 60-3. The regional office shall complete Section 1. The regional office should also request any relevant documents related to the construction of the well from the PWS. 2. Regional office must submit the form and supporting documents to tracey.mason@dnr.mo.gov. 3. Water Resources Center shall complete Section 2 and include any additional supporting documents. Water Resources Center must submit the form and supporting documents to powb.engineeringwaterpermits@dnr.mo.gov Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual. 1. GENERAL INFORMATION (To be completed by the Regional Office) Type of Public Water System: Community Nontransient Noncommunity Transient Noncommunity ACTIVATION DATE PUBLIC WATER SYSTEM NAME PUBLIC WATER SYSTEM ID NO. 07/19/2022 Misty Mountain PWS MO3036363 PUBLIC WATER SYSTEM OWNER WELL OWNER (If different from Public Water System Owner) Travis Blevins MAILING ADDRESS 15405 Texas Road, PO BOX 882 COUNTY ZIP CODE CITY STATE St. Robert Missouri 65584 Pulaski LOCAL WELL NAME LATITUDE LONGITUDE DGLS LOGAVIMS ID 37.801778 Well #1 Topo Drive -92.100086 00403720 SOWIS WELL SITE ID DATE DRILLED (If unknown, best estimate) LOCATED < 50 FEET FROM SURFACE WATER? TYes No WL 20295 03/29/2007 REGIONAL OFFICE CONTACT DATE 08/04/2023 Dalten Young ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION (To be completed by the Water Resources Center) Type of Well Drilled: Public Domestic Multi-family Pre-law Unknown TOTAL DEPTH (A) CASING DEPTH (ft) CASING SIZE (In) CASING MATERIAL WELL YIELD (gpm) AQUIFER 480 120 Plastic 38 PUMP SIZE PUMP DEPTH (ft) PUMP CAPACITY (gpm) UNCONFINED AQUIFER? If Alluvial, Screen Length: ☐ Yes ☐ No ☐ Unknown 460 20 ■ WIMS Record 00403720 ☐ Well/Pump Receipt ☐ Drillers Log ☐ Geology Log Building Date (Co. Assessor) Construction Plans Approval Letter ☐ Other WATER RESOURCES CONTACT DATE Tracey Mason 08/04/2023 ADDITIONAL COMMENTS

PUBLIC WELL	GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained: Yes, Review No. No Or Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit. Yes No No N/A	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603);  ☐ Yes ☐ No	Well serves a Charitable or Benevolent Organization (COBO), without a school of daycare:  Yes No  If yes, serves <100 people 60 days/year:  Yes No  If yes, constructed to Multi-family well standards 10 CSR 23-1.010:  Yes No  Please provide additional site-specific information in the comments section.
NONCOMPLIANT WELL POLICY ELIGIBLE	SUBDIVISION POLICY ELIGIBLE	UNAUTHORIZED WELL
Drilled after applicable Pre-Law date but before 6/15/07:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  ☐ Yes ☐ No  Please provide additional site-specific information in the comments section.	Drilled after applicable Pre-Law date but before 1/1/13:  Yes No  If yes, well(s) under common ownership: Yes No  If yes, constructed to Domestic or Multifamily standards 10 CSR 23-1.010: Yes No Unknown  Please list number of domestic wells, number of multi-family wells, and the number of connections for each well in the comments section below.	Well does not meet any other eligibility category in this section:  Yes No  Please provide additional site-specific information in the comments section.
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PUBLIC DRINKING WATER BRANCH REVIEWER Tasneem Khan	SIGNATURE	DATE
PUBLIC DRINKING WATER BRANCH UNIT CHIEF NAME Brandon Bach	UNIT CHIEF SIGNATURE	08/14/23

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PUBLIC WELL	eted by the Public Drinking Water Branch GRANDFATHERED (PRE-LAW) WELL	COBO WELL				
Construction permit obtained:  Yes, Review No No  Or  Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit:  Yes \( \) No \( \) N/A	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity:  Yes No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  Yes No	Well serves a Charitable or Benevolent Organization (COBO), without a school of daycare: ☐ Yes ☐ No  If yes, serves <100 people 60 days/year: ☐ Yes ☐ No  If yes, constructed to Multi-family well standards 10 CSR 23-1.010: ☐ Yes ☐ No  Please provide additional site-specific				
NONCOMPLIANT WELL POLICY ELIGIBLE	SUBDIVISION POLICY ELIGIBLE	Information in the comments section.  UNAUTHORIZED WELL				
Drilled after applicable Pre-Law date but before 6/15/07:  Yes No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  Yes No  Please provide additional site-specific information in the comments section.	Drilled after applicable Pre-Law date but before 1/1/13:  ■ Yes □ No  If yes, well(s) under common ownership: □ Yes □ No  If yes, constructed to Domestic or Multifamily standards 10 CSR 23-1.010: □ Yes □ No □ Unknown  Please list number of domestic wells, number of multifamily wells, and the number of connections for each well in the comments section below.	Well does not meet any other eligibility category in this section:  Yes No  Please provide additional site-specific information in the comments section.				
Subdivision policy eligible.	SIGNATURE	DATE				
Tasneem Khan		8/7/2023				
PUBLIC DRINKING WATER BRANCH UNIT CHIEF NAME	UNIT CHIEF SIGNATURE	DATE				
Brandon Bach		08/14/23				

## MISSOURI DEPARTMENT OF NATURAL RESOURCES PUBLIC DRINKING WATER BRANCH

#### WELL DETERMINATION FORM

PROJECT NUMBER 3000051-22R DATE RECEIVED 8/7/2023

The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch that serve, or will serve, a public water system (PWS) and to identify the necessary agreements that must be in place to allow the PWS to obtain a permit to dispense from the Department. INSTRUCTIONS This form is for discovered water systems and existing PWS using a well without prior construction authorization. It is NOT necessary to complete this form for a PWS that obtained a construction permit in accordance with 10 CSR 60-3. 1. The regional office shall complete Section 1. The regional office should also request any relevant documents related to the construction of the well from the PWS. 2. Regional office must submit the form and supporting documents to tracey.mason@dnr.mo.gov. Water Resources Center shall complete Section 2 and include any additional supporting documents. Water Resources Center must submit the form and supporting documents to pdwb.engineeringwaterpermits@dnr.mo.gov Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual. 1. GENERAL INFORMATION (To be completed by the Regional Office) Type of Public Water System: Community Nontransient Noncommunity Transient Noncommunity PUBLIC WATER SYSTEM ID NO. ACTIVATION DATE PUBLIC WATER SYSTEM NAME MO3036361 07/19/2022 Charity PWS WELL OWNER (If different from Public Water System Owner) PUBLIC WATER SYSTEM OWNER Travis Blevins MAILING ADDRESS 15405 Texas Road PO Box 882 STATE ZIP CODE COUNTY CITY 65584 Pulaski St. Robert Missouri DGLS LOGAVIMS ID LONGITUDE LOCAL WELL NAME LATITUDE 37,888120 .00228532 92.056101 Well-#1-Highway PP --LOCATED < 50 FEET FROM SURFACE WATER? DATE DRILLED (If unknown, best estimate) SOWIS WELL SITE ID Yes No 07/03/1999 WL 20289 REGIONAL OFFICE CONTACT DATE 08/04/2023 Dalten Young ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION (To be completed by the Water Resources Center) Type of Well Drilled: Public Domestic Multi-family Pre-law Unknown TOTAL DEPTH (ft) CASING DEPTH (fl) CASING SIZE (In) CASING MATERIAL WELL YIELD (gpm) AQUIFER 350 210 8 Steel UNCONFINED AQUIFER? PUMP DEPTH (ft) PUMP CAPACITY (gpm) If Alluvial, Screen Length: PUMP SIZE ☐ Yes ☐ No ■ Unknown 13 ☐ Well/Pump Receipt WIMS Record 00228532 Drillers Log Geology Log Building Date (Co. Assessor) ☐ Construction Plans Approval Letter ☐ Other WATER RESOURCES CONTACT DATE 08/04/2023 Tracey Mason ADDITIONAL COMMENTS

 Well No. 4 Charity Drive (State ID WL 20292) - The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well on May 15, 2003, State Certification Number A109548, as a multi-family well with a completion date of March 30, 2003.

All four wells serve residential properties and may be eligible for a subdivision noncompliant well agreement. This system is required to demonstrate and maintain technical, managerial, and financial capacity in accordance with 10 CSR 60-3.030. If you have questions or need additional information, please contact Tasneem Khan by phone at 573-526-1137. Thank you.

Attachment 1 – Well No. 1 Determination Form and Well Certification Report Attachment 2 – Well No. 2 Determination Form and Well Certification Report Attachment 3 – Well No. 3 Determination Form and Well Certification Report Attachment 4 – Well No. 4 Determination Form and Well Certification Report

c: Sebastien Clos-Versailles, Central Field Operations Tracey Mason, Water Resources Center



Michael L. Parson Governor

> Dru Buntin Director

#### MEMORANDUM

DATE:

September 5, 2023

TO:

Lance Dorsey, Environmental Program Manager Compliance and Enforcement Section, PDWB

FROM:

Diane Vitello, Environmental Program Manager

Permitting and Capacity Development Section, PDWB

SUBJECT:

Well Determination for Charity PWS, MO3036361, Pulaski County,

Review Number 3000051-22R

The Permitting and Capacity Development Section reviewed the well determination form and supporting documents for Charity PWS (MO3036361). Based on the information provided at the time of the review and the Department's 2012 memo titled "Regulation of Subdivisions Served by Multifamily or Domestic Drinking Water Wells", we are referring this system to the Compliance and Enforcement Section for formal enforcement of three domestic well and one multi-family well.

The Central Field Operations determined the above system located in Dixon, Missouri, (with wells located on different streets namely Highway PP and Charity Drive) meets the definition of a community public water system. Travis Blevins claims to own this public water system and is selling water to residents through individual water agreements, however, no deed documents where provided during the review to prove ownership. The system was activated on July 19, 2022, and consists of four wells with no treatment. The Permitting and Capacity Development Section received well determination forms from the Central Field Operations for this system on August 7, 2023. The well determination included the following wells:

- Well No. 1 Highway PP (State ID WL 20289) The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well on February 2, 2001, State Certification Number A094975, as a domestic well with a completion date of July 3, 1999.
- Well No. 2 Highway PP (State ID WL 20290) The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well on December 7, 2011, State Certification Number A180958, as a domestic well and a completion date of November 1, 2011.
- Well No. 3 Charity Drive (State ID WL 20291) The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well with State Certification Number A099216, as a domestic well and a completion date of July 10, 2000.

MISSOURI DEPARTMENT OF					FC	FOR OFFICE USE ONLY									
NATURAL RESOURCES MISSOURI GEOLOGICAL SURVEY PROGRAM Domestic, Multi-Family, High Yield, Public, and Open Loop Heat Pump Well Certification Report							REFERENCE NUMBER 00402070 CERTIFICATION NUMBER A149793			REVENUE NUMBER 030507 CHECK NO. 20965					
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PRIMARY CONTRACTOR BUSINESS BOESSEN UNDERGROUND CONST		PERMIT # 001548	NAME KENNETH BOESSEN			٧									
DRILLER APPRENTICE BUSINESS		PERMIT #	NAME			330									

3. WELL DETERMINATION (To be compl PUBLIC WELL	GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained:  Yes, Review No.  No  Or  Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit:  Yes No No	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  ☐ Yes ☐ No	Well serves a Charitable or Benevolent Organization (COBO), without a school o daycare:  Yes No  If yes, serves <100 people 60 days/year: Yes No  If yes, constructed to Multi-family well standards 10 CSR 23-1.010: Yes No  Please provide additional site-specific information in the comments section.
NONCOMPLIANT WELL POLICY ELIGIBLE	SUBDIVISION POLICY ELIGIBLE	UNAUTHORIZED WELL
Drilled after applicable Pre-Law date but before 6/15/07:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603): ☐ Yes ☐ No  Please provide additional site-specific information in the comments section.	Drilled after applicable Pre-Law date but before 1/1/13:  Yes No  If yes, well(s) under common ownership: Yes No  If yes, constructed to Domestic or Multifamily standards 10 CSR 23-1.010; Yes No Unknown  Please list number of domestic wells, number of multifamily wells, and the number of connections for each well in the comments section below.	Well does not meet any other eligibility category in this section:  Yes No  Please provide additional site-specific information in the comments section.
ADDITIONAL COMMENTS	30000100000	
Tasneem Khan	SIGNATURE	8/7/2023
PUBLIC DRINKING WATER BRANCH UNIT CHIEF NAME  Brandon Bach	UNIT CHIEF SIGNATURE	08/14/23

MISSOURI DEPARTMENT OF NATUR BB PUBLIC DRINKING WATER BRANCH MISSOURI DEPARTMENT OF NATURAL RESOURCES

### WELL DETERMINATION FORM

PROJECT NUMBER 3000050-22R DATE RECEIVED

08/07/2023 The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch that serve, or will serve, a public water system (PWS) and to identify the necessary agreements that must be in place to allow the PWS to obtain a permit to dispense from the Department. INSTRUCTIONS This form is for discovered water systems and existing PWS using a well without prior construction authorization. It is NOT necessary to complete this form for a PWS that obtained a construction permit in accordance with 10 CSR 60-3. The regional office shall complete Section 1. The regional office should also request any relevant documents related to the construction of the well from the PWS. Regional office must submit the form and supporting documents to tracey.mason@dnr.mo.gov. 3. Water Resources Center shall complete Section 2 and include any additional supporting documents. 4. Water Resources Center must submit the form and supporting documents to pdwb.engineeringwaterpermits@dnr.mo.gov 5. Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual. 1. GENERAL INFORMATION (To be completed by the Regional Office) Type of Public Water System: 🔲 Community 🔲 Nontransient Noncommunity 🔲 Transient Noncommunity PUBLIC WATER SYSTEM NAME PUBLIC WATER SYSTEM ID NO. ACTIVATION DATE 07/19/2022 Rolling Hills PWS MO3036362 WELL OWNER (If different from Public Water System Owner) PUBLIC WATER SYSTEM OWNER Travis Blevins MAILING ADDRESS 15405 Texas Road, PO BOX 882 STATE ZIP CODE COUNTY Pulaski 65584 St. Robert Missouri DGLS LOGAMMS ID LONGITUDE LOCAL WELL NAME LATITUDE 37.804841 92,330931 00402070 Well #1 SDWIS WELL SITE ID DATE DRILLED (If unknown, best estimate) LOCATED < 50 FEET FROM SURFACE WATER? Yes INO 02/11/2007 WL 20293 REGIONAL OFFICE CONTACT 08/04/2023 Dalten Young ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION (To be completed by the Water Resources Center) Type of Well Drilled: Public Domestic Multi-family Pre-law Unknown CASING MATERIAL WELL YIELD (gpm) AQUIFER CASING DEPTH (ft) CASING SIZE (In) TOTAL DEPTH (ff) 160 Plastic 45 445 UNCONFINED AQUIFER? PUMP CAPACITY (gpm) If Alluvial, Screen Length: PUMP SIZE PUMP DEPTH (ft) Yes No 🔳 Unknown 380 10 WIMS Record 00402070 ☐ Drillers Log ☐ Well/Pump Receipt Geology Log ☐ Construction Plans ☐ Building Date (Co. Assessor) ☐ Approval Letter ☐ Other WATER RESOURCES CONTACT 08/04/2023 Tracey Mason ADDITIONAL COMMENTS



Michael L. Parson Governor

> Dru Buntin Director

#### MEMORANDUM

DV

DATE:

September 5, 2023

TO:

Lance Dorsey, Environmental Program Manager Compliance and Enforcement Section, PDWB

FROM:

Diane Vitello, Environmental Program Manager

Permitting and Capacity Development Section, PDWB

SUBJECT:

Well Determination for Rolling Hills PWS, MO3036362, Pulaski County,

Review Number 3000050-22R

The Permitting and Capacity Development Section reviewed the well determination form and supporting documents for Rolling Hills PWS (MO3036362). Based on the information provided at the time of the review and the Department's 2012 memo titled "Regulation of Subdivisions Served by Multifamily or Domestic Drinking Water Wells", we are referring this system to the Compliance and Enforcement Section for formal enforcement of one domestic well.

The Central Field Operations determined the above system located at 24654 Rustler Lane, Richland, Missouri, 65556, meets the definition of a community public water system. Travis Blevins claims to own this public water system and is selling water to residents through individual water agreements, however no deed documents where provided during the review to prove ownership. The system was activated on July 19, 2022, and consists of one well with no treatment. The Permitting and Capacity Development Section received a well determination form from the Central Field Operations for this system on August 7, 2023. The well determination included the following well:

 Well No. 1 (State ID WL 20293) - The well was constructed without prior construction authorization. The Missouri Geological Survey certified the well on March 23, 2007, State Certification Number A149793, as a domestic well with a completion date of February 11, 2007.

This well serves residential property and may be eligible for a subdivision noncompliant well agreement. This system is required to demonstrate and maintain technical, managerial, and financial capacity in accordance with 10 CSR 60-3.030. If you have questions or need additional information, please contact Tasneem Khan by phone at 573-526-1137. Thank you.

Attachment 1 - Well Determination Form Attachment 2 - Well Certification Report

c: Sebastien Clos-Versailles, Central Field Operations Tracey Mason, Water Resources Center

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	eted by the Public Drinking Water Branci	
PUBLIC WELL	GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained:  Yes, Review No No  Or  Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit:  Yes No N/A	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity:  ☐ Yes ☐ No  If yes, we'll in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  ☐ Yes ☐ No	Well serves a Charitable or Benevolent Organization (COBO), without a school o daycare:  Yes No  If yes, serves <100 people 60 days/year:  Yes No  If yes, constructed to Multi-family well standards 10 CSR 23-1.010;  Yes No  Please provide additional site-specific information in the comments section.
NONCOMPLIANT WELL POLICY ELIGIBLE	SUBDIVISION POLICY ELIGIBLE	UNAUTHORIZED WELL
Drilled after applicable Pre-Law date but before 6/15/07:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603): ☐ Yes ☐ No  Please provide additional site-specific information in the comments section.	Drilled after applicable Pre-Law date but before 1/1/13:  Yes No  If yes, well(s) under common ownership: Yes No  If yes, constructed to Domestic or Multifamily standards 10 CSR 23-1,010: Yes No Unknown  Please list number of domestic wells, number of multifamily wells, and the number of connections for each well in the comments section below.	Well does not meet any other eligibility category in this section:  Yes No  Please provide additional site-specific information in the comments section.
ADDITIONAL COMMENTS	Today Boom	
PUBLIC DRINKING WATER BRANCH REVIEWER Tasneem Khan	SIGNATURE	DATE
PUBLIC ORINKING WATER BRANCH UNIT CHIEF NAME Brandon Bach	UNIT CHIEF SIGNATURE	08/14/23

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# ENT OF NATURAL RESOURCES ATER BRANCH

PROJECT NUMBER 3000049-22R DATE RECEIVED 8/7/2023

### **WELL DETERMINATION FORM**

The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch that

serve, or will serve, a public wa a permit to dispense from the D		to identify the nea	cessary a	agreements tha	at must be in p	lace to allow	v the PWS to obtain
INSTRUCTIONS	operations.	THE STATE	(2007) - 1	e to the second of		geral grade in	
This form is for discovered wat necessary to complete this for 1. The regional office sit construction of the way. Regional office must 3. Water Resources Cea. Water Resources Cea. Public Drinking Water provided and Section Manual.	m for a PWS that obt hall complete Section ell from the PWS. submit the form and s enter shall complete S enter must submit the er Branch shall complete in 12.2.5 of the Depart	ained a construct 1. The regional supporting docur ection 2 and incl form and support ete Section 3 and ment's Procedur	ction per office shad a ments to lude any rting dood d make a res for A	mit in accorda nould also requ o <u>tracev.masor</u> y additional su cuments to <u>pdv</u> a final well del	ince with 10 Cuest any relevander.  m@dnr.mo.go  pporting docu  wb.engineerin  termination ba	CSR 60-3, rant docum v. ments, gwaterpernased on the	ents related to the mits@dnr.mo.gov
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PUBLIC WATER SYSTEM OWNER			Security and Security		om Public Water Sys		
Travis Blevins							
MAILING ADDRESS	OV 000		•				
15405 Texas Road, PO B					1 ZIP CODE	Léni	NTY
St. Robert	11 77.343	ouri			65584		
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	or) Li Construction	n Plans		☐ Approvar D	etter	Omer	
Tracey Mason				/2023			
ADDITIONAL COMMENTS							
	5. Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual.  GENERAL INFORMATION (To be completed by the Regional Office)    Montain Personal Public Water System:						

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### MISSOURI DEPARTMENT OF NATUR DIB PUBLIC DRINKING WATER BRANCH MISSOURI DEPARTMENT OF NATURAL RESOURCES

#### WELL DETERMINATION FORM

PROJECT NUMBER 3000051-22R DATE RECEIVED

8/7/2023 The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch that serve, or will serve, a public water system (PWS) and to identify the necessary agreements that must be in place to allow the PWS to obtain a permit to dispense from the Department. INSTRUCTIONS This form is for discovered water systems and existing PWS using a well without prior construction authorization. It is NOT necessary to complete this form for a PWS that obtained a construction permit in accordance with 10 CSR 60-3. 1. The regional office shall complete Section 1. The regional office should also request any relevant documents related to the construction of the well from the PWS. Regional office must submit the form and supporting documents to tracey.mason@dnr.mo.gov. Water Resources Center shall complete Section 2 and include any additional supporting documents. Water Resources Center must submit the form and supporting documents to powb engineeringwaterpermits@dnr.mo.gov Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual. 1. GENERAL INFORMATION (To be completed by the Regional Office) Type of Public Water System: 🔲 Community 🔲 Nontransient Noncommunity 🔲 Transient Noncommunity ACTIVATION DATE PUBLIC WATER SYSTEM ID NO. PUBLIC WATER SYSTEM NAME MO3036361 07/19/2022 Charity PWS WELL OWNER (If different from Public Water System Owner) PUBLIC WATER SYSTEM OWNER Travis Blevins MAILING ADDRESS 15405 Texas Road PO Box 882 ZIP CODE COUNTY CITY STATE St. Robert 65584 Pulaski Missouri DGLS LOGAVIMS ID LONGITUDE LOCAL WELL NAME LATITUDE Well #1 Highway PP 37.888120 92.056101 00228532 DATE DRILLED (If unknown, best estimate) LOCATED < 50 FEET FROM SURFACE WATER? SDWIS WELL SITE ID 07/03/1999 Yes No. WL 20289 REGIONAL OFFICE CONTACT DATE 08/04/2023 Dalten Young ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION (To be completed by the Water Resources Center) Type of Well Drilled: Public Domestic Multi-family Pre-law Unknown TOTAL DEPTH (ft) CASING DEPTH (ft) CASING SIZE (in) CASING MATERIAL WELL YIELD (gpm) AQUIFER 350 210 Steel 40 PUMP SIZE PUMP DEPTH (ft) PUMP CAPACITY (gpm) If Alluvial, Screen Length: UNCONFINED AQUIFER? ☐ Yes ☐ No ☐ Unknown 13 ■ WIMS Record 00228532 Mell/Pump Receipt ☐ Drillers Log ☐ Geology Log Building Date (Co. Assessor) Construction Plans ☐ Other ☐ Approval Letter WATER RESOURCES CONTACT DATE 08/04/2023 Tracey Mason ADDITIONAL COMMENTS

PUBLIC WELL	GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained:  Yes, Review No.  No  Or  Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit:  Yes No N/A	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  ☐ Yes ☐ No	Well serves a Charitable or Benevolent Organization (COBO), without a school or daycare:  Yes No  If yes, serves <100 people 60 days/year: Yes No  If yes, constructed to Multi-family well standards 10 CSR 23-1.010: Yes No  Please provide additional site-specific information in the comments section.
NONCOMPLIANT WELL POLICY ELIGIBLE	SUBDIVISION POLICY ELIGIBLE	UNAUTHORIZED WELL
Drilled after applicable Pre-Law date but before 6/15/07:  Yes No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  Yes No  Please provide additional site-specific information in the comments section.	Drilled after applicable Pre-Law date but before 1/1/13:  Yes No  If yes, well(s) under common ownership: Yes No  If yes, constructed to Domestic or Multifamily standards 10 CSR 23-1.010: Yes No Unknown  Please list number of domestic wells, number of multi-family wells, and the number of connections for each well in the comments section below.	Well does not meet any other eligibility category in this section:  Yes No  Please provide additional site-specific information in the comments section.
PUBLIC DRINKING WATER BRANCH REVIEWER  Tasneem Khan  PUBLIC DRINKING WATER BRANCH UNIT CHIEF NAME	SIGNATURE UNIT CHIEF SIGNATURE	DATE 8/7/2023

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### ☐ MISSOURI DEPARTMENT OF NATUR LO PUBLIC DRINKING WATER BRANCH MISSOURI DEPARTMENT OF NATURAL RESOURCES

WELL DETERMINATION FORM

PROJECT NUMBER 3000051-22R DATE RECEIVED 8/7/2023

The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch that serve, or will serve, a public water system (PWS) and to identify the necessary agreements that must be in place to allow the PWS to obtain a permit to dispense from the Department. INSTRUCTIONS This form is for discovered water systems and existing PWS using a well without prior construction authorization. It is NOT necessary to complete this form for a PWS that obtained a construction permit in accordance with 10 CSR 60-3. 1. The regional office shall complete Section 1. The regional office should also request any relevant documents related to the construction of the well from the PWS. Regional office must submit the form and supporting documents to tracey.mason@dnr.mo.gov. Water Resources Center shall complete Section 2 and include any additional supporting documents. Water Resources Center must submit the form and supporting documents to pdwb.engineeringwaterpermits@dnr.mo.gov Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual. 1. GENERAL INFORMATION (To be completed by the Regional Office) Type of Public Water System: Community Nontransient Noncommunity Transient Noncommunity PUBLIC WATER SYSTEM NAME PUBLIC WATER SYSTEM ID NO. ACTIVATION DATE Charity PWS 07/19/2022 MO3036361 PUBLIC WATER SYSTEM OWNER WELL OWNER (If different from Public Water System Owner) Travis Blevins MAILING ADDRESS 15405 Texas Road PO Box 882 COUNTY CITY STATE ZIP CODE St. Robert Missouri 65584 Pulaski DGLS LOGWIMS ID LOCAL WELL NAME LONGITUDE LATITUDE Well #1 Highway PP 37.888120 92.056101 00228532 DATE DRILLED (if unknown, best estimate SDWIS WELL SITE ID LOCATED < 50 FEET FROM SURFACE WATER? Yes No WL 20289 07/03/1999 REGIONAL OFFICE CONTACT DATE Dalten Young 08/04/2023 ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION (To be completed by the Water Resources Center) Type of Well Drilled: Public Domestic Multi-family Pre-law Unknown TOTAL DEPTH (R) CASING DEPTH (ft) CASING SIZE (in) CASING MATERIAL WELL YIELD (gpm) AQUIFER 350 210 Steel 40 PUMP SIZE FUMP DEPTH (ft) PUMP CAPACITY (gpm) UNCONFINED AQUIFER? If Alluvial, Screen Length: Yes No Unknown 13 ■ WIMS Record 00228532 Geology Log ☐ Drillers Log ☐ Well/Pump Receipt Building Date (Co. Assessor) ☐ Construction Plans Approval Letter Other WATER RESOURCES CONTACT DATE Tracey Mason 08/04/2023 ADDITIONAL COMMENTS

PUBLIC WELL	eted by the Public Drinking Water Branch GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained:  Yes, Review No.  No  Or  Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit:  Yes \( \) No \( \) N/A	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  ☐ Yes ☐ No	Well serves a Charitable or Benevolent Organization (COBO), without a school or daycare:  Yes No  If yes, serves <100 people 60 days/year:  Yes No  If yes, constructed to Multi-family well standards 10 CSR 23-1.010:  Yes No  Please provide additional site-specific information in the comments section.
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PUBLIC DRINKING WATER BRANCH REVIEWER Tasneem Khan	SIGNATURE	DATE 8/7/2023
PUBLIC DRINKING WATER BRANCH UNIT CHIEF NAME	UNIT CHIEF SIGNATURE	DATE

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## MISSOURI DEPARTMENT OF NATURAL RESOURCES PUBLIC DRINKING WATER BRANCH

PROJECT NUMBER 3000051-22R DATE RECEIVED 8/7/2023

WELL DETERMINATION FORM

The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch that serve, or will serve, a public water system (PWS) and to identify the necessary agreements that must be in place to allow the PWS to obtain a permit to dispense from the Department, INSTRUCTIONS This form is for discovered water systems and existing PWS using a well without prior construction authorization. It is NOT necessary to complete this form for a PWS that obtained a construction permit in accordance with 10 CSR 60-3. 1. The regional office shall complete Section 1. The regional office should also request any relevant documents related to the construction of the well from the PWS. Regional office must submit the form and supporting documents to tracey.mason@dnr.mo.gov. Water Resources Center shall complete Section 2 and include any additional supporting documents. Water Resources Center must submit the form and supporting documents to pdwb.engineeringwaterpermits@dnr.mo.gov Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual. 1. GENERAL INFORMATION (To be completed by the Regional Office) Type of Public Water System: Community I Nontransient Noncommunity I Transient Noncommunity PUBLIC WATER SYSTEM NAME PUBLIC WATER SYSTEM ID NO. ACTIVATION DATE Charity PWS MO3036361 07/19/2022 PUBLIC WATER SYSTEM OWNER WELL OWNER (If different from Public Water System Owner) Travis Blevins MAILING ADDRESS 15405 Texas Road PO Box 882 STATE ZIP CODE COUNTY CITY St. Robert Missouri 65584 Pulaski LOCAL WELL NAME LATITUDE LONGITUDE DGLS LOG/MIMS ID 37.888120 92.056101 Well #1\_Highway PP\_ 00228532 SDWIS WELL SITE ID LOCATED < 50 FEET FROM SURFACE WATER? DATE DRILLED (If unknown, best estimate) Yes No WL 20289 07/03/1999 REGIONAL OFFICE CONTACT DATE 08/04/2023 Dalten Young ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION (To be completed by the Water Resources Center) Type of Well Drilled: Public Domestic Multi-family Pre-law Unknown CASING SIZE (in) CASING MATERIAL TOTAL DEPTH (ft) CASING DEPTH (ft) WELL YIELD (gpm) AQUIFER 350 210 Steel 40 PUMP SIZE PUMP DEPTH (ft) PUMP CAPACITY (gpm) If Alluvial, Screen Length: UNCONFINED AQUIFER? Yes No Unknown ■ WIMS Record 00228532 ☐ Drillers Log ☐ Well/Pump Receipt ☐ Geology Log ☐ Building Date (Co. Assessor) Construction Plans Approval Letter ☐ Other WATER RESOURCES CONTACT 08/04/2023 Tracey Mason ADDITIONAL COMMENTS

PUBLIC WELL	GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained:  Yes, Review No.  No  Or  Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit:  Yes No No	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity:  ☐ Yes ☐ No  If yes, we'll in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  ☐ Yes ☐ No	Well serves a Charitable or Benevolent Organization (COBO), without a school of daycare:  Yes No  If yes, serves <100 people 60 days/year:  Yes No  If yes, constructed to Multi-family well standards 10 CSR 23-1.010:  Yes No  Please provide additional site-specific information in the comments section.
NONCOMPLIANT WELL POLICY ELIGIBLE	SUBDIVISION POLICY ELIGIBLE	UNAUTHORIZED WELL
Drilled after applicable Pre-Law date but before 6/15/07:  ☐ Yes ☐ No  If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):  ☐ Yes ☐ No  Please provide additional site-specific information in the comments section.	Drilled after applicable Pre-Law date but before 1/1/13:  Yes No  If yes, well(s) under common ownership: Yes No  If yes, constructed to Domestic or Multifamily standards 10 CSR 23-1.010: Yes No Unknown  Please list number of domestic wells, number of multi-family wells, and the number of connections for each well in the comments section below.	Well does not meet any other eligibility category in this section:  Yes No  Please provide additional site-specific information in the comments section.
ADDITIONAL COMMENTS	section below.	1
Subdivision policy eligible.		
PUBLIC DRINKING WATER BRANCH REVIEWER  Tasneem Khan	SIGNATURE	8/7/2023
PUBLIC DRINKING WATER BRANCH UNIT CHIEF NAME Brandon Bach	UNIT CHIEF SIGNATURE	08/14/23

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STATE OF MISSOURI ) COUNTY OF COLE )	SS.
BUSINE	SS RECORDS AFFIDAVIT
Before me, the undersigned is being by me duly sworn, deposed	d authority, personally appeared who
My name is	, and I am the Records Administrator for the Missouri My duties include maintaining custody of the records aral Resources ("MDNR").
I am of sound mind, capab with the facts herein stated:	le of making this affidavit, and personally acquainted
business of the MDNR. It was t employee or representative of the M make the record or to transmit info	ttached pages of records are official records of the ursuant to Missouri law and in the regular course of the regular course of business of the MDNR for an MDNR with knowledge of the act or event recorded to mation thereof to be included in such record; and the e of the act or event. The records attached hereto are ne original.
	Records Administrator
	Missouri Department of Natural Resources
In witness whereof I have h	ereunto subscribed my name and affixed my official
seal this day of	, 20
	Notary

My commission expires:\_