FILED February 14, 2024 Data Center Missouri Public Service Commission

Exhibit No. 7

Staff – Exhibit 7 MO DNR Business Records Affidavit File No. WO-2024-0036

STATE OF MISSOURI)
) S.S.
COUNTY OF COLE)

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 the day of ______, 2023.

(SIGNED:

TAMISPEARS NOTARY PUBLIC - NOTARY SEAL STATE OF MISSOURI MY COMMISSION EXPIRES DECEMBER 6, 2026 COLE COUNTY COMMISSION #22387229 (SEAL)

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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. coll 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.

Page 3

3. 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

Image: Second state information of the information may importante sobre su agua potable. The Missouri Department of Natural Resources has issued a Boil Water Order for	Misty Mountain, $DP# MO3036363$ for Well #1 on Topo Drive located in <u>Pulaski</u> <u>County</u> . 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 <i>E. coli</i> bacteria exceeding the <i>E.</i> <i>coli</i> 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.		A description of the cause of the problem and actions being taken to correct 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.
BOIL ALL BOIL ALL DRINKING WATER Hiervan el agua antes de usarla.	Your public water system is under a boll water order. You need to take the following actions: 1. Boll water vigorously for three minutes prior to use. Use only bolled water for drinking, brushing teeth, diluting	truit 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 honsehold automatic icemaker or use any ice made with unboiled water from this system. Remake ice cubes with water that has been boiled or buy	and other food contact surfaces by it least one minute in clean tap water that ispoon of unscented household bleach per COOL SUFFICIENTLY BEFORE	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
	Your public need to take 1. Boil wate only boile	truit juice though re though re water wh bade 2. Do not us use any it Remake j	ice. 3. Disinfect dishes immersion for a contains one tea gallon of water. 4. LET WATER (DRINKING.	Water used Supervision backyard pe severe rashe	SEE REV

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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 collform-positive and *E. coll*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. colt 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)

A description of the cause of the problem and actions being taken to correct 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:

- 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.
- 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.
- 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.



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 e-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://s1.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)

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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 <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineeringfees/operator-certification</u>. 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

12m Day

Lance Dorsey Compliance and Enforcement Section Chief

LD:jjs

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

PO Box 176, Jefferson City, MO 65102-0176 - dnnmo.gov

(Page 1' of 8)



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 <u>ljean 52066@gmail.com</u>

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 <u>DNRCFO.PDW@dnr.mo.gov</u>.

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

> PO Box 176, Jefferson City, MO 65102-0176 - dnr.mo.gov A Page 11



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				ا المراجع المعادية ال			
PVISNUME Misty Mountain PWS					PWS ID NUMBER MO3036363		
COUNTY Pulaski				MONTHLY COMPLIANCE PERIOD (MONTHYEAR) August/2022		ce period (Monthayear)	
PWS CONTACT PERSON Travis Blevins	PWS CONTACT POS OW/DEF			ſLE			s contact phone number 3-855-2769
System Type: 🛛 Com; 🗋 NTNC; 🔲 T	NC	Source T	ype(s):	⊠ GW; □ S	W or GWUD	ISW;	
			FICATION D	ATE OF LEVEL 2 AS	isess%int taig	IGER	ASSESSMENT DATE B/18/2022
			50R TELEF 522-30	tione number wi 18	TH AREA CODE	1.00000000	sson EMAIL ADDRESS ten, young@dnr.mo.gov
REASON FOR LEVEL 2 ASSESSMEN	T '				×		
ROLITINE SAMPLES TOTAL COLIFORMAPOSITIVE (#):	REPEAT SAMPLES TOTAL COLIF 3			AM-POSITIVE (4):	VALID REPEAT SAMPLES WATER SYSTEM FAILED TO DO		LES \VATER SYSTEM FAILED TO COLLECT (4):
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E. coli MCL Violation		5 S		Second o	r grealer Lev	vel 1	Trigger in 12 months
INSTRUCTIONS:	(), (), (), (), (), (), (), (), (), (),						2
Description, Use the space to provide explanation and additional informati that supports your findings (i.e. water quality and pressure monitoring data). In Corrective Action, provide corrective action(s) and date(s) completed or prov action(s) for issues identified. Sanitary Defect Checklist Have any of the following occurred?				ia). Include corr	esponding dat	tes wi	ith your findings.
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 or storage D. Heavy rainfall F. Extremes in heat or cold 			e 🗆 G e 🗆 H e 🗆 J	Power Loss Heavy snow I Changes to a	bution syster melt or floodi vailable sour	m ma ing	in repairs or well pump pulled
				at a check valve was leaking and maintenance activities which could			
(80-xoux (06-17)							

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Z. SAMPLING SITES AND SAMPLING PROTOCOL	No Issues
 C. Yard hydrant/frost-proof spigof 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 	 J. Sample tap has atmospheric vacuum breaker K. Point of use treatment (water softener or cartridge filtration) at sampling tocation L. Unclean sample tap M. Leaking tap or erratic flow N. Sampling bottle mishandled O. Tap on a dead-end main P. Aerator/screen/O-ring/hose was not removed before samplin Q. Other
Dearwhan	
3. SOURCE(S)	No Issues Not Applicable
A. Defective/damaged well cap/well seal	G. Potential source of contamination near well
	 H. Damaged well casing I. Damaged pilless adaptor
D. Weil recently repaired/wellhead opened	J. Missing/damaged grout seal
E. Unplugged abandoned well in area	K. Olher: Improper shocking
SURFACE WATERIGWUDISW:	No Issues 🛛 Not Applicable
	D. Damaged Intake or spring box
B. Change in source water quality	E Other.
C. Any potential source of contamination near source	Ne logues M Mat Applicable
	No Issues Not Applicable C. Other:
A. Water quality issues with supplier B. Low disinfectant residual from supplier (< 0.2 mg/L)	
Description	
The unprotected opening in the well head was the air relief w (Photo #1).	alve on the well was not screened leaving an opening for contamina
The second se	a three a weak later the autom tooted partitive for F coli. The sustem
the system shocked the topo well twice and both times, less	s than a week later the sytem tested positive for E coli. The system chlorine was detected, which did not result in the system luly disinform
The rehardlent that ney and the interior contraction and	well multiple times, each time leaving the well head open each time
the Topo Drive distribution system. The system shocked the	Construction and ● 2 CONTECT 1 CONSTRUCTION STATE STOCK (CON
the Topo Drive distribution system. The system shocked the	
the Topo Drive distribution system. The system shocked the they disinfected well.	
the Topo Drive distribution system. The system shocked the they disinfected well.	No issues St Not Applicable
the Topo Drive distribution system. The system shocked the they disinfected well. 4. TREATMENT PROCESS	No issues Not Applicable
the Topo Drive distribution system. The system shocked the they disinfected well.	I. Meters not recently/properly calibrated
the Topo Drive distribution system. The system shocked the they disinfected well. 4. TREATMENT PROCESS A. Inadequate disinfection B. Interruption in treatment/power loss C. Chlorine/Turbidity meters out of range	I. Meters not recently/properly calibrated J. Solution pump not primed K. Treatment bypassed
the Topo Drive distribution system. The system shocked the they disinfected well. A. TREATMENT PROCESS A. Inadequate disinfection B. Interruption in treatment/power loss	I. Meters not recently/properly calibrated J. Solution pump not primed K. Treatment bypassed L. Treatment added or changed
the Topo Drive distribution system. The system shocked the they disinfected well.	I. Meters not recently/properly calibrated J. Solution pump not primed K. Treatment bypassed
the Topo Drive distribution system. The system shocked the they disinfected well.	 I. Meters not recently/properly calibrated J. Solution pump not primed K. Treatment bypassed L. Treatment added or changed M. Softener serviced/salt added
the Topo Drive distribution system. The system shocked the they disinfected well.	 I. Meters not recently/properly calibrated J. Solution pump not primed K. Treatment bypassed L. Treatment added or changed M. Softener serviced/salt added N. Any Turbidity changes
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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 light seal	K. Incomplete inspection recommendations
D. Tank sample tap condition	L. Incorrect operation of level control valves, albitude 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	N. Debris in tank
H. Debris in tank overflow pipe	P. Evidence of vandalism/tampering
Date - last inspection of vents and hatches:	Q. Combined tank inlet/outlet
Date - last sanitary tank inspection:	R. Olher:
Date - last lank cleaning:	
Description	
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6. BLADDER AND PRESSURE TANKS	No issues Not Applicable
A Air/water lanks: air added recently	D. Bladder of bladder tank ruptured or waterlogged
B. Pressure tank not on main line	E. Bladder of bladder tank ruptured or waterlogged F. Other:
C. If "A" is checked, is air filter dirty	
Description	
7. PUMPING FACILITIES	No issues 🛛 Not Applicable
A. Pump Facility subject to flooding	D. Electrical systems for pumps
A. Pump Facility subject to flooding B. Pump maintenance	D. Electrical systems for pumps E. Low pressures due to pumping facilities
A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals	D. Electrical systems for pumps
A. Pump Facility subject to flooding B. Pump maintenance	D. Electrical systems for pumps E. Low pressures due to pumping facilities
A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals Description	D. Electrical systems for pumps E. Low pressures due to pumping facilities F. Other.
A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals Description 8. DISTRIBUTION SYSTEM	D. Electrical systems for pumps E. Low pressures due to pumping facilities F. Other: Ko issues
A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals Description	D. Electrical systems for pumps E. Low pressures due to pumping facilities F. Other: No issues H. Recent flushing of fire hydrants or blow-offs I. Improper operation of pumps or valves
A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals Description 8. DISTRIBUTION SYSTEM A. Any unprotected cross connection	D. Electrical systems for pumps E. Low pressures due to pumping facilities F. Other: No issues H. Recent flushing of fire hydrants or blow-offs I. Improper operation of pumps or valves J. Recent main breaks or leaks
A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals Description A. 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	D. Electrical systems for pumps E. Low pressures due to pumping facilities F. Other: No 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
A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals Description 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	D. Electrical systems for pumps E. Low pressures due to pumping facilities F. Other: F. Other: H. Recent flushing of fire hydrants or blow-offs H. Recent flushing of fire hydrants or valves J. Recent main breaks or leaks K. Recent pump or valve failure L. Illegal use of hydrants
A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals Description S. 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/inadequale disinfectant residuals	D. Electrical systems for pumps E. Low pressures due to pumping facilities F. Other: F. Other: 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 L. Illegal use of hydrants
A. Pump Facility subject to flooding B. Pump maintenance C. Leaks around pump seals Description 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 G. Standing water/debris in valve vauit	D. Electrical systems for pumps E. Low pressures due to pumping facilities F. Other: F. Other: H. Recent flushing of fire hydrants or blow-offs H. Recent flushing of fire hydrants or valves J. Recent main breaks or leaks K. Recent pump or valve failure L. Illegal use of hydrants
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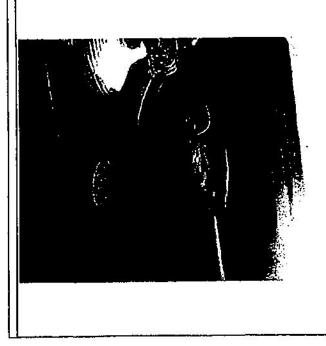
"(Page 5 of 8)

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:

Description

10. ADDITIONAL INFORMATION-PHOTOGRAPHS AND SAMPLE RESULTS

Sample Turne Collociad	Lab#	Site ID	Location Address	Coliform Results Absent / Present		Chlorine Residual		
Sattible Type	Sample Type Collected (Accession#) Sit			TC	E Coli	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	Р	Р	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	Р	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 wilhout a screen

(Page 6 of 8)

Corrective Action: Use this space to describe connective 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.

Dallen Young	573-522-3018	8/26/2022	1
ASSESSOR SIGNATURE	ASSESSOR E-MUL ADDRESS		
Dentation & Course young.	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.

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:

- 1. 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 <u>DNRCFO.PDW@dnr.mo.gov</u>.

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 he 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.

Additional Comments

 21 - 50%0	

Signature of Person Responsible

Date	
TRUC	

Typed or Printed Name

Title

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

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Additional Comments	1 compliance . E
	· /
Signature of Person Responsible	<u> </u>
1 LEAN T. PLEVINS	
Typed or Printed Name	
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 ARSE

RECEIVED OCT 1 1 2022 Water Protection Program

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.

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m03036363-misty-mountain-pws-20220908-ussi-pulaski-dw

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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

PWS: Mis	ty Mountain PW:	<u>s</u>	ID# MOS	036363 County:	Puleski	LIC DRI	NKING I	WATER
Sample Results via: Email				Data Received	09/08/2	022		
····								
r 	T Date Outerstart	Repo	rt of Total C	oliform Positive Samples	0.0		1	locine
Sample Type	Date Collected m/d/yyyy	Lab #	Site ID	Location Address	Coliform A/P TC E Coli		Free Total	
Routine	090/06/2022	727749	04	24443 Tiggier Lane	P	A	NA	NA
Repeat - OR	09/19/2022	734539	04	24443 Tigger Lanc	Å	A	NA	NA
Repeal - UP	09/19/2022	734537	Ta	Tigger lane	Ā	A	NA	NA
Repeat - DN	09/19/2022	734538	ter	24423 tigger lane	P	· · ·	NA	NA
GW Source	09/19/2022	734510	W120298	well	1 A	A 1	NA	NA
Other	1				· · · · · · · · · · · · · · · · · · ·			
Other						f		•••••
Other		***		· · · · · · · · · · · · · · · · · · ·				
Person Called:	Lori Jean	_	••••••	Phone: 417-425-9343	i Dale: (9/08/2022	:	
Date PWS was r	enuired to collect rep	ieal samples	by:			· · · · ·		
	population <1,000 v			es If YES, PWS have	4-Log treat	ment?	No 🔲	Yes
Dual Purpose Sa	imple approved for t	his GW Syster	m? 🗌 No 🔲	Yes 🔲 Not Applicable				
			ACTIONS a	nd or COMMENTS			61.1000 	
09/08/2022-	2.40 1.60%					• • • • • • • • • • • • • • • • • • • •		
09/22/2022 JT	Loft message for I	.ori informir	ng of TC+ resu	uts and suggesting wells be disin	fected and	I flushed	again.	
	100 - 100		4768					
RICR TT Triger	Exceeded?	Yes (Le	evel 1 or 2 Asse	sament will be required) Date of pre	vious RTC	R exceeda	nca:Aug	ust 2022
E coll MCL	Violation 🛛 Leve	1 TT Triger-1	viulliple TC Pos	tives 🔲 Level 1 TT Triger-Failun	a to Collect	All Repea	Sample:	5
PDWB notified/co	opied on: (da	ite) (Note: 2+	RTCR TT exce	edances in 12 months or E.coli posl	tive will req	uire Level	2 Assess	ment)
							-	

 \checkmark

Ground Water Rule & Triggered Source Water Sample Requirements

1). 🔲 Ground Water System (Go to #3)	Secondary/purchased water system (Go to	p #2) Il 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 (Triggared	source water sampling required. Go to #5.)
If Primary (seller) is not a 4-log system, the	secondary system (purchaser) must notify the Pri	mary of the Coliform sample within 24-hours.
	requires source water sample from EACH well	active the day of unsate sample.
List the Primary (seller) Groundwater Syste	n(s) and ID#'s here(if applicable):	
Data Primary GW system(s) were notified to	collect Triggered Source Water Samples:	(Go to #5)

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1. Ta 1.



Michael L. Parson Governor

> Dru Buntin Director

7099 3220 0009 3711 1301

November 21, 2022

Misty Mountain PWS Travis Bievins 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:

- o 8/19/2022
- o 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 Vavra 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.vavra@dur.mp.gov.

Sincerely,

ATIONS CHNTR Tracy Haag.

Environmental Supervisor

Enclosure:

c: Public Drinking Water Branch, Compliance and Enforcement Unit Pulaski County Health Department (Page '.; of 8)



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 <u>DNRCFO.PDW@dnr.mo.gov</u>; 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

IACU A + Tracy Haag

Environmental Supervisor

Enclosure

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

PO Box 176, Jefferson City, MO 65102-0176 - danmo.gov



Schedule of Compliance Misty Mountain PWS 15405 Texas Road St. Robert MO3036363

1

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.
- Investage 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. Waterwaler 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 Coli. positive samples, emergency chlorination will need to be added to the system.

(Page 2 of 8)

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MANDATORY CHLORINATION:

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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 <u>DNRCFO.PDW@dnr.mo.gov</u>.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM PUBLIC DRINKING WATER BRANCH REVISED TOTAL COLIFORM RULE LEVEL 2 ASSESSMENT FORM

FUBLIC WATER SYSTEM (PWS) INFO	RMATIC	N	·	अध्यः अन्तर्भनम् जन			and the providence of the second		
PWS NAVE Misty Mountain PWS	PWS NAME				PAVS ID NUMBE MO30363				
COUNTY					MONTRY COM	NCE PERIOD (MONTHYEAR)			
Pulaski Pws contact Person Lori Jean Operator				ITION/TELE			2022 РИS CONTACT ЛНОНЕ NUMBER 417-425-9343		
System Type: 🛛 Com; 🗌 NTNC; 🗍 1	oe(s):	⊠ GW; □ S	W or GWUD	ISW	'; 🗍 GWP; 🗌 SWP				
PWS PERSON IN RESPONSIBLE CHARGE Travis Blevins	mbei				ASSESSMENT DATE November 14, 2022				
ASSESSOR NAME ASSESSO				R TELEPHONE NUMBER WITH AREA CODE ASSESSO			essor eivil address liten.young@dnr.mo.gov		
OTHER PERSONS ASSISTING OR PRESENT DURING AS Jackie Hooker & Keith Brown	SESSMENT								
REASON FOR LEVEL 2 ASSESSMEN	τ		-	en i		,	· · · · · · · · · · · · · · · · · · ·		
ROUTINE SAMPLES TOTAL COLIFORM POSITIVE (4):	REPEATS	AMPLES TOTAL	COLF	DRILLI'OSITIVE (2):	VALIO REPEAT	SAM	PLES WATER SYSTEM FALED TO COLLECT (#):		
ROUTINE SAMPLES E. COLLEOSITIVE (11): 1	REPEATS	iamples e. Coi	1POSI	₩E (4):	SOURCE WATE	ER SA	MPLES E COLIPOSITVE (#):		
E. coli MCL, Violation				Second o	ond or greater Level 1 Trigger in 12 months				
INSTRUCTIONS:							х.		
Description, Use the space to provide exp that supports your findings (i.e. water quality Corrective Action, provide corrective action action(s) for issues identified.	and pres	sure monitor	ning da	ata). Include corr	esponding da	tes v	with your findings.		
Sanitary Defect Checklist Have any of th	e followin					- X A.H.			
1. GENERAL	-		N N	o îssues					
 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 or storage D. Heavy rainfall E. Extremes in heat or cold 				 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: 					
Description									
780-youx (00-17)			0.000	5795.001 (1953)					

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(Page 5 of 8)

2. SAMPLING SITES AND SAMPLING PROTOCOL	X No issues
A Windy & raining during sampling	J. Sample tap has atmospheric vacuum breaker
B. Change In conditions at sample site	K. Point of use treatment (water softener or cartridge filtration) at
G. Yard hydrani/frost-proof spigot used	sampling location
D. First month of operation following startup	🛄 L. Unclean sample tap
E. Vegetation rest up against sample site	M. Leaking top or erratic flow
F. Sample close to ground/difficult to sample	N. Sampling bottle mishandled
G. Tap not disinfected and flushed before sampling H. Hot/cold (swivel/auto sensing) mixing faucel	 O. Tap on a dead-end main P. Aerator/screen/O-ring/hose was not removed before sampling
I. Untrained of inexperienced sample collector	
Description	
Description	
1	
3. SOURCE(S)	
WELLS:	No issues Not Applicable
A. Defective/damaged wall cap/well seal	G. Potential source of contamination near well
B. Damaged/unscreened well vent	H. Damaged well casing
C. Floodwater/run-off inundation near well	I. Damaged pilless adaptor
D. Well recently repaired/wellhead opened	J. Missing/damaged grout seal
E. Unplugged abandoned well in area	K. Other.
F. Unprotected oponing in wellhead/pump	
SURFACE WATER/GWUDISW:	🗌 No issues 🛛 🖾 Not Applicable
A. Recent flooding or heavy rainfall	D. Damaged intake or spring box
B. Change in source water quality	E. Olher:
C. Any potential source of contamination near source	
PURCHASED WATER:	No Issues 🛛 Not Applicable
A. Water quality issues with supplier	C. Other.
B. Low disinfectant residual from supplier (< 0.2 mg/L)	
Description 1. The bolts on the well head were loose and it appears that th	a wall hand was an anal zoonaliy
	e well licky was upened tolend back dawa nabatu
2. The state of the well seal is unknown as the well head was in These is quickle size sticking out of the ground approximate	ly four feel away from the well head, it is unknown what that pipe is or leads to.
3. There is a white pipe sticking out of the ground approximate	n may have cause the land around the well to sink in around the well head.
4. The owner believes that the pittess adaptor is cracked which	I have cause are lead abound the men to shrath dreated that nead.
4. TREATMENT PROCESS	No Issues Not Applicable
A Inadequate disinfection	1. Meters not recently/property calibrated
B. Interruption in treatment/power loss	J. Solution pump not primed
C. Chlorine/Turbidity meters out of range D. Change in chemical used/dosage	K. Treatment bypassed
E. Solution Intector/tank condition	L. Treatment added or changed
F. O and M procedures not followed	M. Softener serviced/salt added
G. Recent repairs or mainlenance performed	N. Any Turbidity changes
H. Change in flow rates or water quality	O. Other:
Description	
1	
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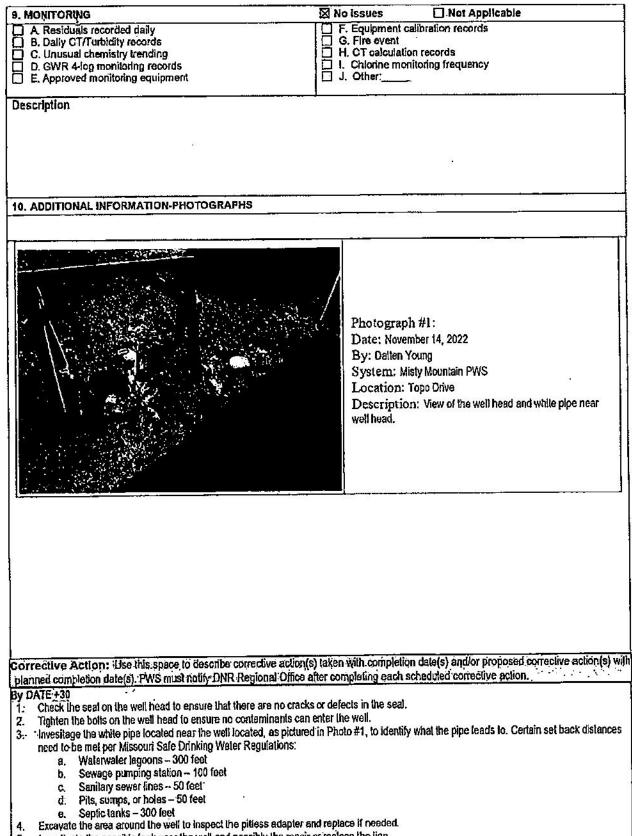
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[
5. STORAGE TANKS AND TOWERS	🔲 No issuos 🛛 Not Applicable
A. Evidence of animals/insects in tank	I. Recent tank repairs
B. Tank vent not downturned/screened	J. Tank is isolated
C. Tank access hatch has no water tight seat	K. Incomplete inspection recommendations
D. Tank sample tap condition	L. incorrect operation of level control valves, attitude 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	 N. Debris in tank O. Tank hatch not tooked
H. Debris in tank overflow pipe	P. Evidence of vandalism/tampering
Date - last inspection of vents and hatches:	Q. Combined tank intel/outlet
Date - last sanilary tank inspection:	
Date - last tank cleaning:	
Description	
6. BLADDER AND PRESSURE TANKS	No issues Not Applicable D. Bladder of bladder tank ruptured or waterlogged
B. Pressure tank not on main line	E, Bladder of bladder tank ruptured or waterlogged
C. If "A" is checked, is air filter dirty	F. Other:
Description	
7. PUMPING FACILITIES	No issues 🖾 Not Applicable
A. Pump Facility subject to flooding	D. Electrical systems for pumps
B. Pump mainlenance	E. Low pressures due to pumping facilities
C. Leaks around pump seals	F. Olber
Description	
8. DISTRIBUTION SYSTEM	No issues
A Any unprotected cross connection	H. Recent flushing of fire hydrants or blow-offs
B. Submerged air-relief/alr-vacuum valve	L. Improper operation of pumps or valves
C. Any recent construction activity	I I. Recent main breaks or leaks
D. New service connections recently added	 K. Recent pump or valve failure L. litegal use of hydrants
E. Flushing procedure not followed F. Low/inadequate disinfectant residuals	M. Excessive water hammer
G. Standing water/debris in valve vault	
house throught the water line and that mud backs	erator to inform them of possible mud or other contaminants entering his up into his house. There is patch of much greener grass between the well This may indicate a possible leak in the line leading to the home.

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(Page 7 of 8)



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If after the sanitary defects have been addressed and the system keeps having E Coli, positive samples, emergency chlorination will need to 6. be added to the system.

- If the system fails to address the sanilary defects by DATE 199, the Department will require mandatory chlorination to treat the water by 7. DATE 160
 - a. 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)	ASSESSOR TELEPHONE WITH AREA CODE	DATE
Dallen Young	573-522-3018	November 17, 2022
ASSESSOR SIGNATURE ,	ASSESSOR E-MAL ADORESS	
Dorth A Age Furt	Daiten.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. 750-720 (11-19)

(Page 1 of 4)



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: Lovel 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".
- 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."
- 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 nucrobial contamination into the distribution system or indicate imminent failure in an existing barrier (e.g., vent missing or unscreened vent on wellhcad, 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. <u>After completing each scheduled corrective action</u>, 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.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM – PUBLIC DRINKING WATER BRANCH REVISED TOTAL COLIFORM RULE					FOR OFFICELUSE ONLY				
					DATE RECEIVED	2	PROVED?		
						IĻ	Yes No		
LEVEL 1 ASSESSMENT FORM					WITRW	ATER SYSTEM			
					MOONA REVIEWER		DATE APPROVED		
					1				
POBLIC WATER SYSTEM (PWS) INFORMATION		•		•	62		4		
PWS RAME				PWS JO NUMAE			12		
MISTY MOUNTAIN PWS		2		MO3036363 MONTHEY COMPLIANCE PERIOD (MONTH/YEAR)					
Pulaski				SEPTEMBER 2022					
The second second second second second	÷		2		OTIFICATION DATE OF LEVEL 1 ASSESSMENT TRIGGTR				
REASON FOR LEVEL TASSESSMENT				9/30/2022					
ROUTINE SAMPLES TOTAL COUFORM-POSITIVE (#): REPEAT	SAMPLES TOTAL COLIF	ORM	1-PGSITTYE (#):	VAUD REPEATS	ID REPEAT SAMPLES WATER SYSTEM FAILED TO COLLECT (a):				
INSTRUCTIONS		35				10.00			
Section A, Sanitary Defect Checklist: Review and	our leasts the life	had	alements helow. C	hack the her	next to each incu	-	otential cause of		
contamination identified during the assessment.	evaluate the hs	Leu	elements below. C	neck the pu	ad in a subsection	chor p	becilial cause of		
issues" in that subsection. Check "Not Applicable"	"If the section of	eus Ine	s not apply to the P	wasiyenin WS	CO (II & 3003CCIO)	y chec	R THE DOA HEAL TO THO		
Section B, Description of Occurrence: Provide ex	planation and a	ddii	lional information i	or any issue	s Identified in Sec	tion A.			
Section C, Corrective Action: Provide corrective a	tions and date	5 CO	maleted or provide	proposed t	Imeframe for com	pletto	n of outstanding		
corrective actions for issues identified in sections.	A and B. Notify	the	appropriate Depa	rtment of Na	tural Resources'	egion	al office after		
completing each scheduled corrective action.									
Return this form to appropriate department regi	onal office with	in S	30 days (from notifi	ication date	above).				
Retain a copy of this completed assessment form	In your files fo	rat	least five years.				(mm)//		
Section A-Sepitary Defect Checklist Have any o	the following c)ĘCL	irred?				14		
1. GENERAL	No issue	5							
A. Loss of pressure (<20 psi) or pressure fluctua	tions	h	D, Visible indicato	rs of unsani	arv conditions				
B. Operation/maintenance activities that could	Introduce	Ħ	E, Recent distribu		1. The second	eli pur	np pulled		
contamination		П	F. Power Loss						
C. Signs of vandallsm/forced entry into well/pu	mp house or-	Ē	Z. Other:						
storage									
2. SAMPLING SITES AND SAMPLING PROTOCOL	No issu	es	1. Committee barriers	- .					
A. Windy or raining during sampling		H	J. Sample tap has				filtration) at sampling		
B. Change in conditions at sample site C. Yard hydrant/frost-proof spigot used		μ	location	armenriwa	ret sullenet of rat	thuệc	(Introduction accounting		
D. First month of operation following startup		h	L. Unclean sample	tao					
E. Vegetation resting up against sample tap		M. Leaking tap or erratic flow							
F. Sample close to ground/difficult to sample		D	N. Sampling error						
G, Tap not disinfected and flushed before sam	pling		O. Tap on a dead-end main						
H. Hot/cold (swivel/auto sensing) mixing fauce		P. Aerator/screen/O-ring/hose was not removed before sampling							
I. Untrained or inexperienced sample collector		Ц	Z. Other						
3. DISTRIBUTION SYSTEM	No Issu	es V							
A. Any unprotected cross connection		님	H. Improper oper		2.52				
B. Submerged air-relief/air-vacuum valve		H	I. Recent main bri J. Recent pump of						
C. Any recent construction activity		-	K, lilegal use of h		e				
 D. New service connections recently added E. Low/inadequate disinfectant residuals 		F	L. Excessive water						
F. Standing water/debris in valve vault			Z. Other:	- transmitter					
G. Recent flushing of fire hydrants or blow-offs		[
4. STORAGE TANKS AND TOWERS	No Issu	es	Not Applica	ble	1993 - 189	ana amaganaga			
A. Evidence of animals/insects in tank	<u> </u>	Γ	F. Low disinfectar						
B. Tank vent not downturned/screened			G. Debris in tank	and the second se	ė				
🛄 C. Tank access hatch has no water tight seal			H. Recent tank re						
D. Tank maintenance practices not followed		Р	100		control valves, al	titude	valves, and related		
E. Tank deterioration or rust noted			appurtenance:	20 2 2	le .				
Date - last inspection of vents and hatches:		F	J. Tank leaking or K. Debris in tank	notes in tan	ĸ				
Date - last sanitary tank inspection:		F	L. Evidence of var	ndalism/tam	pering				
0 Control - Cont		E	Z. Other:		B				
Date - last tank cleaning:		1							

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5. BLADDER AND PRESSURE TANKS	🗌 No issue		· · · · · · · · · · · · · · · · · · ·
A. Alr/water tanks: air added recently	1	C. Bladder of bladder tank rupt	ured or waterlogged
B. If "A" is checked, is air filter dirty		Z Other:	
6. TREATMENT PROCESS	No issues	Not Applicable	
A. Inadequate dislofection		G. Change in flow rates or wate	
B. Interruption in treatment/power loss		H. Meters not recently/propert	y calibrated
C. Chlorine/Turbidity meters out of range	Į	I. Treatment bypassed	
D. Change in chemical dosage	Į	J. Treatment added or changed	
E. O and M procedures not followed	Į	K. Softener serviced/salt added	
F. Recent repairs or maintenance performed		2. Other:	e <u>iteris</u>
7. SOURCE(S)			
WELLS:	No issues	Not Applicable	
A. Defective/damaged well cap/well seal	j	G. Potential source of contamir	ation near well
B. Damaged/unscreened well vent	ľ	R. Damaged well casing	
C. Floodwater/run-off inundation near well	l l	I. Damaged pitless adaptor	
D. Well recently repaired/wellbead opened	ļ	J. Missing/damaged grout seal	
E. Unplugged abandoned well in area	l l	_] Z. Other:	
F. Unprotected opening in wellhead/pump			
SURFACE WATER/GWUDISW:	🔄 🗌 Na issue		
A. Recent flooding or heavy rainfall		D. Damaged Intake or spring b	X
B. Change in source water quality	k	Z. Other:	
C. Any potential source of contamination near s	ource		
PURCHASED WATER:	No issues	Not Applicable	
A. Water quality issues with supplier	P	Z. Other:	······································
θ. Low disinfectant residual from supplier (< 0.2	mg/L)		
Section B - Description of Occurrence: "Use this spi		planation and additional informat	ion for any issues identified in Section A that
support your findings (i.e. water quality and pressu	ire monitoring d	ata), include corresponding dates y	vith your findings.
Check if PWS did not find any causes for the co			
	nta) mitacion.		
Í			
Section C - Corrective Action: Use this space to de	eccibe correction	actions taken with completion da	tos and proposed corrective artions with
planned completion dates. Notify your local region			
plained completion dates. Methy your total region	aronice arter co	anyacting each setted alon confectiv	
			20 03
			-
Diana Nata Succession		an which a colling 12 months and	- d will contro a loval 2 accordant
Please Note: Exceeding a second Level 1 treatmen			
Certification: I hereby certify that the information of	contained hereir	is true, accurate and complete to	the best of my knowledge and belief.
	contained hereir		
Certification: I hereby certify that the information of pws contact name (hype or paint)	contained hereir	ו is true, accurate and complete to מסידינגשו חתב	the best of my knowledge and belief.
Certification: I hereby certify that the information of	contained hereir	is true, accurate and complete to	the best of my knowledge and belief.
Certification: I hereby certify that the information of pws contact name (hype or paint)	contained hereir	ו is true, accurate and complete to מסידינגשו חתב	the best of my knowledge and belief.
Certification: I hereby certify that the information of PWS CONTACT NAME (NYPE OR PAINT) PWS CONTACT SIGNATURE	contained hereir	n is true, accutate and complete to ל סדונטיב אחנפ ד האיוו אסטוביני	the best of my knowledge and belief. WS CONTACT TELEFHONE WITH AREA CODE
Certification: I hereby certify that the information of two contact NAME (NYPE OR PAINT) PASS CONTACT SIGNATURE Submit this completed form within 30 days of note	contained herein pwscowrac evscowrac fication to the a	n Is true, accutate and complete to ROFFICIAL TITLE T NAME ANDRESS Oppropriate Missouri Department of	the best of my knowledge and belief. WE CONTACT TELEFHONE WITH AREA CODE NATE of Natural Resources regional office.
Certification: I hereby certify that the information of two contact NAME (NPE OR PAINT) exescentract Signature Submit this completed form within 30 days of notificate website for map: <u>https://dnr.mo.gov/documen</u>	contained herein pwscowrac evscowrac fication to the a	n Is true, accutate and complete to ROFFICIAL TITLE T NAME ANDRESS Oppropriate Missouri Department of	the best of my knowledge and belief. WE CONTACT TELEFHONE WITH AREA CODE NATE of Natural Resources regional office.
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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. coll-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,

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(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 colliform 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.

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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. <u>After completing each scheduled corrective action</u>, the PWS must notify the department to avoid violations.

mo3036363-misty-mountain-pws-20220819-ussl-pulaski-dw

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PWS: Misty Mountain PWS

Sample Results via: Email

Page 1 of 2 MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM -- PUBLIC ORINKING WATER BRANCH **INVESTIGATION OF COLIFORM- POSITIVE SAMPLES REVISED TOTAL COLIFORM RULE**

ID# MO3036363

PUBLIC ORINKING WATER

 $\mathcal{A}^{(1)}$

County: Pulaski Date Received 8/18/2022

		Repo	t of Total Co	liform Positive Samples				
Sample Type	Date Collected	Lab#	Site ID	Location Address	Coli	orm A/P	Ch Ch	lonine
Sample type	m/d/yyyy	120*	aleid		TC	ECON	Free	Totel
Routine	8/16/2022	OE718717	TCR	23249 Topo	9	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	08/16/2022	OE719863	TCR	23249 Topo	P	P	N/A	N/A
GW Source	08/18/2022	OE719861	WL20295	Topo Well	P	F	N/A	N/A
Other								
Other								
Other								
Parson Called:	Travis Blevios			Phone: 573-855-2769	Date: 0	8/18/2022	1	
	equired to collect rej							
GW System with	population <1.000 v	with one well?	No Yes	s If YES, PWS have	e 4Log treati	nenl? 💽	No [Yes
Dual Purpose Sa	mple approved for t	his GW System	? 🗌 No 🔲 Y	es 🔲 Not Applicable				
				nd or COMMENTS				
08/16/2022. All system on a boil	8 samples came f	back E Coli. + off will be out	Sebastien Clos	w activated system, five from th s-Versailles called Travis to ini infirmation samples. I went dow	form him of	the samp	les and p	

8/19/2022 SPC - I called and let Mr. Blevins know that all the repeat samples came back E. coli positive. I let him know the buil order would remain in effect and suggested he shock the well immediately before trying to collect special samples to remove the boil order.

RTCR TT Triger Exceeded? 🛄 No 🖾 Yes (Level 1 or 2 Assessment will be required) 🛛 Date of previous RTCR exceedence: N/A

🛛 E. coli MCL Violation 🔲 Level 1 TT Triger-Multiple TC Positives 🛄 Level 1 TT Triger-Failure to Colect All Repeat Samples

PDWB notified/copied on: (date) (Note: 2+ RTCR TT exceedances in 12 months or E.coli positive will require Level 2 Assessment)

Ground Water Rule & Tricoered Source Water Sample Regularements

1) X 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? TYES (STOP) X 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 t	he Coliform sample within 24-hours.
4) GW systems not doing 4-Log treatment	requires source water sample from EACH well active t	he day of unsafe sample.
List the Primary (seller) Groundwater System	n(s) and ID#'s here(if applicable):	
Date Primary GW system(s) were notified to	collect Triacered Source Water Samples: (Go to)#5)

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19851230	08/18/2055	M-50532	в	d				
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(benineal Triggered Source Water Monitoring (if required)

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Corrective Action required? 🗌 No 🛛 🔀 Yea.......(attachod documentation as necessary)

If Yes, date system neithed to take Corrective Action:

(Attach additional copies of this page if necessary)

(Page 1 of 2)



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



21

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 I 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. <u>After completing each scheduled corrective action, the PWS</u> <u>must notify the department to avoid violations.</u>

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

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Page 1 of 2 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

PWS: Misty Mountain PWS ID# MO3036363

Sample Results via: Email

County: Pulaski Date Received 10/21/2022

	Date Collected		1951	liform Positive Samples	Cold	om VP	Ch	loine
Sample Type	TWO/YYYY	Lab#	Site ID	Location Address	TC	E Coli	Free	Tota
Routine	10/19/2022	749458	04	24443 tigger	P	A	NA	NA
Repeat - OR	10/24/2022	751621	04	24443 tigger	A	A	NA	NA
Repeal - UP	10/24/2022	751622	TCR	24410 tigger	A	A	NA	NA
Repeat- DN	10/24/2022	751623	TCR	24423 tigger	•	A	NA	NA
GW Source	10/24/2022	751620	W120298	Well 4	A	A	NA	NA
Other								
Other					}			ristoare.
Other								
Person Called:	Lori Jean			Phone: 417-425-9343	Date: 1	10/21/2022	2	
Date PWS was n	equired to collect rej	eat samples	by:					
SW System with	population <1,000 v	vith one well?	No XY	is If YES, PWS have	e 4-Log treat	ment? 🛛	No 🗌	Yes
10/21/2022 MF to take repeat stake those same	I – I spoke with La amples; one from (les first thing Mon	ori and infon the original l nday mornin	ACTIONS at med her that th ocation, one up e.	nd or COMMENTS e sample taken had come back ostream, one downstream, and	one from th	ne well. S	he said s	he will
to take repeat s take those samp 10/26/2022 JT-	I – I spoke with La amples; one from (les first thing Mon	ori and infon the original l aday momin Lori Jean inf	ACTIONS at med her that th ocation, one up e.	nd or COMMENTS	one from th	ne well. S	he said s	he v

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 G	W: STOP)
3) Does Ground Water System provide 4-Log	treatment? YES (STOP) NO (Triggered source	e water sampling regulaed. Go to #5.)
If Primary (seller) is not a 4-log system, the	secondery system (purchaser) must notify the Primary of	of the Coliform sample within 24-hours.
4) GW systems not doing 4-Log treatment	reguires source water sample from EACH well activ	
List the Primary (seller) Groundwater System	n(s) and ID#'s here(if applicable):	
Date Primary GW system(s) were polified to	collect Trippered Source Water Samples: (Go	0 10 #5)

1.4

mo3036363-misty-mountain-pws-20221021-ussi-putaski-dw-1 Page 2 of 2

	Primai	ry PWS Name	10000000000000000000000000000000000000	Primary PWS Name					
Lab#	Data	Well # or name	Cotife	xm A/P	Lab#	- Det	Well # or nema	Colin	Am An
Lev#	Date	AASK & OL HUND	TC	E Col		Date	AAGU # ON LIGUTUR	TC	E.C
	- · · ·	-							

Additional Triggered Source Water Monitoring (if required)

Well:							
	Lab#	Date	Co	Coliform A/F			
	Cao#	Date	TC	E. Cofi			
1	1.000 A.						
2							
3							
4							
5							

		Well:			
T	Lab#	Date	Coliforn A/P		
		Date	TC	E. Co	
1					
2					
3					
4					
5					

	N N	Vel;					Well;		
	Lab# Date	Collform A/P			Lab#	Date	Coli	Coliform A/P	
		Dette	TC	E. Coli		Lau #	DBIG	TC	E Coi
1		the second	1		1				
2	2000 (10) 2000 (10)				2				1
3					3				
4					4				1
5				1	5				

Was any of the additional source water sample E. Co'll positive ? I N I Y

Corrective Action required? No Yes.....(attached documentation as necessary)

If Yes, date system notified to take Corrective Action:

(Attach additional copies of this page if necessary)

2

(Page 1 . of 2)



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. coll MCL as specified in 10 CSR 60-4.022(9)(A)2.A. A PWS exceeding the E. colt MCL with one or more E. colt-positive routine or repeat sample(s) or failure to collect all repeat samples following an E. colt 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.
- 2. 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,



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. <u>After completing each scheduled corrective action</u>, the PWS must notify the department to avoid violations.

2



Michael L. Parson Governor

> Dru Buntin Director

August 23, 2022

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

RE: Letter of Warning - Operator Certification

Dear Travis Blevins:

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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 employce 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 <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineeringfees/operator-certification</u>. 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 Brauch, P.O. Box 176, Jefferson City, MO 65102-0176. Thank you.

Sincerely,

WATER PROTECTION PROGRAM

form

Lance Dorsey Compliance and Enforcement Section Chief

LD:jjs

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

PO Box 176, Jefferson City, MO 65102-0176 - dnr.mo.gov



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'T	PWS ID :	MO3036362		
Mail to :	LORI JEAN PO BOX 615	County: PULASKI			
	MARSHFIELD, MO 65706-0000	Please notify us of any name and address changes			

228-335
10/18/2022
Routine
WL 20293
WELL #1
GW
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	
GER WARD REACTION OF THE REACTION OF THE REACTION OF THE REACTION	<u></u>	anan yayı - Striktana A	ereent 15198.com.commer v	
GROSS ALPHA, EXCL. RADON & U	< 3 PCVL	15	PCI/L	
An and assessment and a second state of	····. 9850	and the second		
GROSS ALPHA PARTICLE ACTIVITY	< 3 PCI/L	15	PCI/L	
en al des suits i tales suits Merce ad this and a suits	a il	e ⁿ Son a sea	transference in the second	
RADIUM-226	<1 PCI/L			
Remains and the solution of the state of the state of the solution of the solu			apprentises of the state of the state of	
COMBINED RADIUM (-226 & -228)	< I PCI/L	5	PCI/L	
and a star of the start of the second start of the start of	EST NA ANDRO MALANAMENTAR			

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

	MISSOURI DEPARTMENT OF N. DIVISION OF ENVIRONMENTAL			RECEIVED
	PUBLIC DRINKING WATER BRA	NCH POBOX 176 JEF	FERSON CITY MD 65102	JAN 0 9 2022
CHAIN OF	CUSTODY AND RADIO	NUCLIDE ANAL	YSIS OF WATER S	AMPLE PUBLIC DRINKING WATER
MO3036362			4th Qtr	
ROLLING HILLS PW	S		PULASKI	
WL 20293 WEL				
	LECTOR (TYPE OR USE ELACK BA	LE POINT PEN)		
SAMPLE COLLECTED BY:	i A. Jean		ONR OTHER	TEM DAYTIME PHONE * 4114254343
DATE SAMPLE COLLECTED:	TIME SAMPLE COLLECTED	🗍 РМ	TYPE OF WATER	
10-18-22	0900	AM		E FINISHED
				NUMBER OF CONTAINERS
RELINQUISHED BY: Leri h	. Jean	- ************************************		DATE: 10119/22
COMPLETED BY LABORATORY ON	Y			
RECEIVED AND PRESERVED TO PH			LAB. LOG	225-335
She Muse 10-20-			NUMBER	
RADIONUCLIDE	CONCENTRATION (pCi/)	DATE OF ANALYSIS	METHOD OF ANALYSIS	ANALYST
Gross Alpha Particle Activity	\$ 23.0	1-1-22	EPA 900.0	an
Radium-226	21,0	12.13.22	EPA 903.1	gar.
Radium-228	L1.0	12.7.22	EPA 904.0	my
Gross Bela Particle Activity				
Ucanium	20.67	10-28-22	EPA 200.8	
Radon	<u>.</u>	 		·····
The above analyses were performed Approved by:	by the Saint Louis County Departmen	t of Health, Environmen	lai Laboratories. Date	ì
C/1	<u> </u>			183
A result of <(less than) a specified qu	antity means the concentration was e	llher zero or less (han th	e analytical delection level.	
The test results reported on this form				
	g is required at this time because the o ant level allowed in drinking water.	concentration of radionul	licdes in your water do not o	exceed the
Additional testing is	required because the analysis rosult e		mit. 10/7.6	l
			···/ 1.6	1

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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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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.

Sincercly,

WATER PROTECTION PROGRAM

forday

Lance Dorsey Compliance and Enforcement Section Chief

LD:jjs

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

PO Box 176, Jefferson City, MO 65102-0176 • dnr.mo.gov

mo3036361-charity-pws-20221021-ussl-pulaski-dw

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G ≋	MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM - PUBLIC DRINKING WATER BRANCH
<u>}</u>	INVESTIGATION OF COLIFORM- POSITIVE SAMPLES REVISED TOTAL COLIFORM RULE

PWS:	. Charity PWS	iD#	MO3036361	County:	Pulaski
	the state of the s	1001		ovunty	

Sample Results via: Email

Date Received 10/21/2022

	ier -	Repo.	rt of Total Co	oliform Positiva Samples				·····
Sample Type	Date Collected m/d/yyyy	Lab#	Site ID	Location Address	Colif TC	erm A/P E Coli	Ch Free	forine Total
Routine	10/19/2022	749462	06	11904 hŵy pp	P	A	NA	NA
Repeat - OR	10/24/2022	751541	05	11904 hwy pp	Ā	A	NA	NA
Repeat - UP	10/24/2022	751539	01	18410 charity	A	A	NA	NA
Repeat - DN	10/24/2022	751540	03	11955 hwy pp	A	A	NA	NA
GW Source	10/24/2022	751538	W120291	well		Å	NA	NA .
Other	IVILWELL	/////////	- Miller I				- 100	110
Other						-		
Other								
Parson Called:	Lori Jean		L	Phone: 417-425-9343	Date: 1	0/21/2022	<u> </u> !	
the second s	Quired to collect re;	eat semiles						
	population <1,000 v			s II YES, PWS have	e 4-Loo treat	ment? 52	No 🗂	Yes
				es 🖾 Not Applicable				100
Dia i Dipoto da				nd or COMMENTS		·		
	les first thing Mo Left message for 1			sample results.				
RTCR TT Triger				ssment will be required) Date üves □ Level 1 TT Triger-Fal	of previous RT lure to Collect			5
PDWB notified/co		10		edances in 12 months or E.coli p			-	0.0 0

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 (ga to #4) or SW (If SW ONLY, no GV	V: 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 Colform sample within 24-hours.
	requires source water sample from EACH well active	the day of unsafe sample.
List the Primary (seller) Groundwater System	m(s) and ID#'s here(if applicable):	
Date Primary GW system(s) were notified to	collect Tringered Source Water Samples: (Go	to #5)

mo3036361-charity-pws-20221021-ussl-pulaski-dw

Page 2 of 2

1018 1100 - 1 1	Prima	y PWS Name	22			Prima	y PWS Name		
Lab ¥		Lit N d	Coliform A/P		1.54	0.1-	Well # or name	Colife	om AIP
	Date	Well # or name	TC	E.Cali	Lab#	Date		TC	E. Co
<u></u>									
		1					11 12 12 12	10	

Welf# / Name / Location:

Additional Triggered Source Water Monitoring (if required)

		Well:			1937-0165		Well:		
			C	form A/P		1.2.4	Data	Coliform A/P	
	Leb#	Date	TC		Date	TC	E. Col		
1					1				
2					2			198 - 198 A. 198 - 199	
3					3				
4					4				
5		1			5				

		Well:	2002 : 0223302				Well:		
			Co	Coliform A/P		1.3.4	Date	Coliform A/P	
	Lab#	Dale	TC	E. Col		Lab#	Date	TC	E. Col
1					1				
2		1			2				
3					3				
4					4				1
5					5				1

Was any of the additional source water sample E. Coli positive ? 🗋 N 👘 🗋 Y

Corrective Action required? INO Yes......(attached documentation as necessary)

If Yes, date system notified to take Corrective Action: ____

(Altach additional copies of this page if necessary)

mp3036361-charity-pws-20221109-ussi-pulaski-dw

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7	MISSOURI DEPARTMENT OF NATURAL RESOURCES
S.	WATER PROTECTION PROGRAM - PUBLIC DRINKING WATER BRANCH
	INVESTIGATION OF COLIFORM- POSITIVE SAMPLES
5	REVISED TOTAL COLIFORM RULE

PWS: Charity PWS ID# MO3036361 County: Pulaski

Sample Results via: Email

Date Received 11/9/2022

Report of Total Collform Positive Samples Chlorine **Date Collected** Collom A/P Sample Type Lab # Site ID Location Address m/diyyyy TC E Coli Free Total Routine 11/7/2022 05 758522 18320 Charity P NA Å NA Repeat - OR 11/10/2022 760042 05 18320 Charity ٨ NA NA A Repeat-UP 11/10/2022 TCR 760043 18185 charity A Å NA NA Repeat - DN 11/10/2022 760044 TCR 18325 charity A Á NA NA **GW Source** 11/10/2022 760041 WL20291 WL20291 A NA NA A Other Olher Other Person Called: Lori Jean Phone: Date:11/9/2022 Date PWS was required to collect repeat samples by: GW System with population <1,000 with one well? X No Yes If YES, PWS have 4-Log treatment? No Yes Dual Purpose Sample approved for this GW System? [] No [] Yes 🛛 Not Applicable **ACTIONS and or COMMENTS** 11/9/2022 JT- Spoke with Lori about TC+ sample at site 05. Confirmed that Dalten had spoke with her about the Misty

Mountain sample. Lori stated all repeat samples would be taken tomorrow. 11/14/2022 JT- Spoke with Lori to confirm that sample 760042 was for the Charity PWS and not Misty Mountain. Lori confirmed and I informed of the safe results at Charity PWS. I then emailed the monitoring group so that sample 760042 could be properly entered as a sample for Charity PWS and not Misty Mountain PWS.

RTCR TT Triger Exceeded? 🔀 No 📋 Yes (Level 1 or 2 Assessment will b	e required) Date of previous RTCR exceedance:
E. coli MCL Violation Level 1 TT Triger-Multiple TC Positives	evel 1 TT Triger-Failure to Collect All Repeat Samples
PDWB notified/copied on: (date) (Note: 2+ RTCR TT exceedances in 1	2 months or E.coli positive will require Level 2 Assessment)

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 t	realment? 🔲 YES (STOP) 🔄 NO (Triggered source	water sampling required. Go to #5.)
If Primary (seller) is not a 4-log system, the s	econdary system (purchaser) must notify the Primary of	the Coliform sample within 24-hours.
	equires source water sample from EACH well active	the day of unsafe sample.
List the Primary (seller) Groundwater System	n(s) and ID#'s here(if applicable):	
Date Primary GW system(s) were notified to	collect Triggered Source Water Samples: (Go	to #5)

Page 1 of 2

mo3036361-charity-pws-20221109-ussi-pulaski-dw

5) Triggered Source Water Sample Results Primary PWS Name Lab # Date Well # or name Coliform A/P Lab # Date Well # or name Coliform A/P Lab # Date Well # or name Coliform A/P Lab # Date Well # or name Coliform A/P Lab # Date Well # or name Coliform A/P Lab # Date Well # or name Coliform A/P Lab # Date Well # or name Coliform A/P Lab # Date Well # or name Coliform A/P TC E. Coli Coliform A/P Coliform A/P Any source water sample E. Coli positive ? N Y (If yes 5 additional well samples required) Well# / Name / Location: V V V V

Additional Triggered Source Water Monitoring (if required)

	1	Well:				200 × 200 ×	Welt:					
	Lab#	Data	Data	Dala	Data	C	oliform A/P		Lab #	Date	Coli	form A/P
	L40 #	Dale	TC	E Coli			Dala	TC	E. Col			
1					1							
2					2							
3					3							
4					4							
5					5							
				· · · · ·		a de destado			2 2 8000			

		Well:	100		0		Well:	- 20	84-3	
	ب_ا_ب	Duta		Co	Coliform A/P		Lab#	Date	Coli	form AVP
	Lab#	Date	TC	E. Coll		2007	Date	TC	E. Co	
1					1					
2	- 200300 - 2003				2	172 - 19				
3					3					
4					4					
5	-				5					

Was any of the additional source water sample E. Coli positive ? ... N ... Y

Corrective Action required? 🔲 No 👘 📋 Yes...... (attached documentation as necessary)

If Yes, date system notified to take Corrective Action: ____

(Attach additional copies of this page if necessary)

Page 2 of 2

MISSOURI DEPARTMENT	OF NATURAL RESOUR	CES	TED RD AND	6	OR OFFI	APT	
	LIFORM RULE	King wa			NULCTED VIA P		WATER SYSTEM
LEVEL 1 ASSESSME				ľ	[] Yes		
				м	ODNA REVIEWZI	2	DATE APPROVED
				. <u> </u>			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PUBLIC WATER SYSTEM (PWS) INE	UKMATIUN		- the T	ID NOLOER	and the second		and the second
CHARITY PWS		200	M	0303630			
COUNTY Pulaski		10	MO	BRUA	LIANCE FERIOD	(моңтнуғ.	λ α γ
			NO	RECATION I	ATE OF LEVEL I	ASSESSING	REDOKST TR
REASON FOR LEVEL 1 ASSESSMENT	10 1884/ REPORT	<u>., y</u>		5/2023	43 09 CC 107CB	EVENCLEA	ILED TO COLLEC
ROUTINE SAMPLES TOTAL COLIFORM POSITIVE (#):	REPEAT SAMPLES TOTAL COL	ILOKA-POSITI	VE VAL	200 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	VVATES AVIES	•15164TA	
INSTRUCTIONS	A STATISTICS	with the			e excession		
Retain a copy of this completed assessme Section A - Sanitary Defect Checklist H	and new of the following o					an 20	-
I. GENERAL A. Loss of pressure (<20 psi) or pressure B. Operation/maintenance activities the	e fluctuations	D. Visible E. Recent	distribution :	f unsanita system ma	ry conditions in repairs or		p pulled
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				FOR OFFICE	USE ONLY
HISSOURI DEPARTMENT C	GRAM - PUBLIC D	RINKING WATER BI	RANCH	DATERECEIVED	Yes No
REVISED TOTAL CO				CONDUCTED VIA PHONE	
				MORENTA REVIEWER	DATE AFPROYED
PUBLIC WATER SYSTEM (PWS) INFO	RMATION	1777 A	PWS IO NUMBE		a an
CHARITY PWS			MO30363		11ME 4 P1
courav Pulaski			FEBRUA	RY 2023	
REASON FOR LEVEL 1 ASSESSMENT			2/15/2023		
ADLITICIE SAMPLES TOTAL COLLFORM POSITIVE (*):	REPEAT SAMPLES TOTAL	ODLIPORM-POSITIVE (#):	VALID REPEAT NA	SAMPLES WATER SYSTE	AL FAILED TO COLLECT (*):
INSTRUCTIONS		a she fa fa al an Street			
completing each scheduled corrective action Return this form to appropriate departm Retain a copy of this completed assessment Section A - Sanitary Defect Checklist Ho	ent regional office w at form in your files we any of the following	ng occurred?	ntification date	above).	
1. GENERAL		No lasues	1888 AM		
A. Loss of pressure (<20 psi) or pressure B. Operation/maintenance activities that contamination C. Signs of vandalism/forced cutry into v storage	could introduce	 D. Visible indicat E. Recent distribut F. Power Loss Z. Other: 	tors of unsanit ation system n	ary conditions asin repairs or well p	oump pulled
2. SAMPLING SITES AND SAMPLING	PROTOCOL	No issues		······	
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E. Vegetation mating up against sample t P. Sample close to ground/difficult to sar G. Tap not disinfected and flushed befor H. Hoveold (swivel/auto sensing) mixing I. Unrained or inexperienced sample col	nplc rc sampling 3 faucet	 N. Sampling error O. Tap on a dead 	or -end main	vas not removed bet	ore sumpting
3. DISTRIBUTION SYSTEM		No Issues	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		
		E TI TE PARTY AND	stion of pump	s or valves	
A. Any unprotected cross connection B. Submerged air-relief/air-vacuum valv C. Any recent construction activity D. New service connections recently add E. Low/inadequate disinfectant residuals F. Standing water/debris in valve wault	ded	H. Improper oper I. Recent main br J. Recent pump o K. Illegal use of l L. Excessive wat Z. Other:	eaks or leaks r valve failure hydrants		
 B. Submerged air-relief/air-vacuum valv 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 block 	ded	I. Recent main by J. Recent pump o K. Illegal use of I L. Excessive wat Z. Other	eaks or leaks ir valve failure hydrants er hammer		
B. Submerged air-relief/air-vecuum valv C. Any recent construction activity D. New service connections recently adi E. Low/inadequate disinfectant residuals F. Standing water/debris in valve vault G. Recent flushing of fire hydrants or blo 4, STORAGE TANKS AND TOWERS	ded	I. Recent main by J. Recent pump o K. Illegal use of I L. Excessive wat Z. Other	esks or leaks or valve failure hydrants er hammer ot AppUcable		
B. Submerged air-relief/air-vacuum valv 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 ow-offs cal	I. Recent main by J. Recent pump o K. Illegal use of L. Excessive wat Z. Other: No Issues G. Debris in tank H. Recent tunk of	esks or leaks r valve failure hydrants er hammer ot AppUcable ant residuals : overflow pipe spairs ation of level of	3 control valves, altitu	de valves, and related

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Michael L. Parson Governor

> Dru Buntin Director

July 18, 2023

Misty Mountain PWS Travis Blevins 15405 Texas Road S1. Robert, MO 65584 Via email at <u>leontravis@yaboo.com</u>

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 <u>DNRCFO.PDW@dnr.mo.gov.</u>

Sincerely,

CENTRAL FIELD OPERATIONS

t: llo-1/

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
- 3. Reroute the wiring through the electrical conduit and properly seal the well cap for Tigger Well #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
- 8. 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 <u>DNRCFO.PDW@dnr.mo.gov</u>.

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 Na	tural Resources	
Sebastien Clos-Versailles	Environmental Supervisor	573-526-0459
	azarra, Alabar, rena-azar a domanazar da normania 🔲 na arean da sana da sa	sebastien.clos-versailles@dnr.mo.gov
Jackie Johnson	Environmental Specialist	573-751-4414
12		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.

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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 colliform 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 1 Assessment of the Tigger Well #2 distribution system during the September 2022 monitoring period following the collection of multiple total colliform 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.

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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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Ana		lc #1 oring Schedule	
Analyle	Number of Sample(s)	Frequency	Next Scheduled Action
Bacteria	4	Monthly, Wells & Distribution System	Every month, every year
Nitralc/Nitrite	1	Every year per Well	2023
Synthetic Organic Chemicals (SOC)	l	Every six years per Well	2028
Volatile Organic Chemicals (VOC)	l	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	1	Every quarter for Trisha Well #2	2023
Radionuclides	1	Every nine years for Tigger Wells #3 and #4	2031
Glyphosate	1	Every nine years per Well	2031

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

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 appurlenances is available in Tables #2 and #3.

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Well 1D	Installation Date	Cosing Depth (ît)	Casing Diameter (in)	Total Depth (ft)	Pump Copacity (gpm)	Բսաբ Դ յթե	· WIMS Record ID	Photo
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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						ble #3 purtenanc	Jes.		 		
Well ID	Breathcr Vent	Pump to Waste	Sample Tap	Access Hatch	Lightning Protection	Casing18" above ground level	Isolation Value	Pressure Gauge	Drawdown Gruge	Check Valve	Master Meter
Topo Well #1	Y	N	Y	N/A	-	Y	Y	Y	N	Y	N
Trisha Well #2	Y	N	Y	Y		У	Y	Y	N	N	א
Tigger 1 Well #3	Y	N	Y	Y	-	Y	Y	Y	N	N	N
Tigger 2 Well #4	Y	N	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, 1 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.

Bacterie	Tabl plogical Sa	e #4 mple Infor	mation	
Location	Free Residual mg/L	Total Residual mg/L	Total Coliform	E. Coli
07 - 14100 Trisha Drive	-	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.

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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.

2. 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:

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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.

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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, #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

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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 <u>DNRCFO.PDW@dnr.mo.gov</u>.

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

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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.

2. 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.

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5. 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 http://www.cadroughtprep.net/images/Drought/Well%20Drawdown.pdf.

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

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> 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: <u>https://www.sos.mo.gov/adrules/csr/current/10csr/10csr</u>.

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: <u>https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility</u>. For more information on emergency planning, visit <u>http://water.epa.gov/infrastructure/watersecurity/emerplan/</u>.

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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: <u>https://dnr.mo.gov/water/what-were-doing/water-planning/missouri-water-resources-plan</u>. To register online or for mail-in forms go to: <u>https://dnr.mo.gov/document-search/major-water-use-registration-mo-780-2019</u>. 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: https://dnr.mo.gov/env/wpp/pdwb/permits.htm. 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 Instillation 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.

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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 <u>DNRCFO.PDW@dnr.mo.gov</u>. For assistance with compliance issues or general technical assistance, you may also contact Central Field Operations at the above contacts.

Signatures

SUBMITTED BY:

t. 10-11:

Sebastien Clos-Versailles Environmental Inspector Central Field Operations

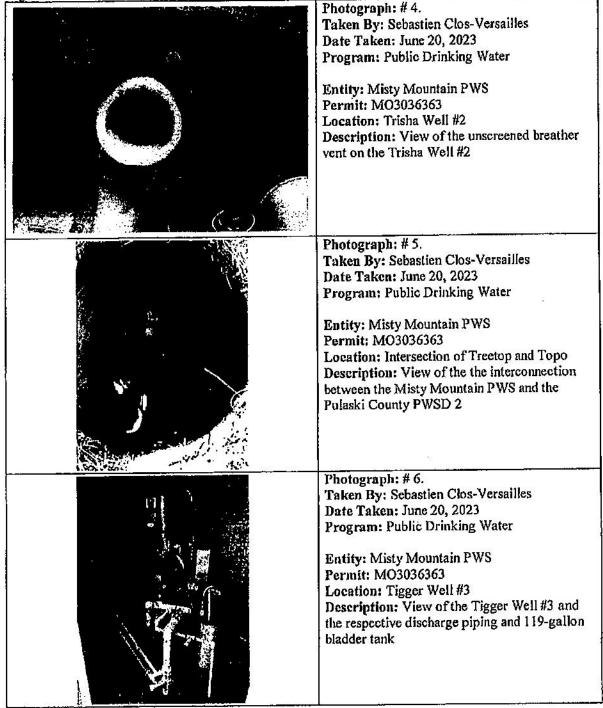
REVIEWED BY:

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 Attachment #1 - Photographs Misty Mountain PWS July 18, 2023 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

Attachment #1 - Photographs Misty Mountain PWS July 18, 2023 Page 2 of 5



Attachment #1 - Photographs Misty Mountain PWS July 18, 2023 Page 3 of 5

Prage 5 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)
ALL DESCRIPTION OF THE OWNER OF T	house and won (under ouerer 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

Attachment #1 - Photographs Misty Mountain PWS July 18, 2023 Page 4 of 5

Page 4 01 5	Photograph: # 10.
	Taken By: Sebastien Clos-Versailles
	Date Taken: June 20, 2023
	Program: Public Drinking Water
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	Entity: Misty Mountain PWS
and the second se	Permit: MO3036363
1.15	Location: Tigger Well #4 well house
	Description: View of the respective discharge
	piping and 86-gailon bladder tank for Tigger
a for many and a start way of the	Well #4
	Photograph: # 11.
	Taken By: Sebastien Clos-Versailles
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	Program: Public Drinking Water
Care a	r logram; r bone Dimking water
and the second	Tu the Man Manatain DW/C
	Entity: Misty Mountain PWS
	Permit: M03036363
	Location: Tigger Well #4
	Description: View of the Tigger Well #4. Note
	the electrical wires not running through the
and the second second second	electrical conduit opening on the right of the
	well and the missing bolts on the well cap.
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
	Photograph: # 12.
	Taken By: Sebastien Clos-Versailles
	Date Taken: June 20, 2023
	Program: Public Drinking Water
	Trogram Tuble Drinking Hundr
	Entity: Misty Mountain PWS
	Permit: MO3036363
	Location: Tigger Well #4
	Description: View of the opening in the
	clectrical 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.
	unsealed wen cap not via the electrical conditit.
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Attachment #1 - Photographs Misty Mountain PWS July 18, 2023 Page 5 of 5

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	Bhatannaha # 12
	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
s and the second	
	Photograph: # 14.
	Taken By: Sebastien Clos-Versailles
	Date Taken: June 20, 2023
	Program: Public Drinking Water
	Togram. Tuone Drinking water
	Entity: Misty Mountain PWS
	Permit: MO3036363
A STATEMENT	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
and the second s	distribution system the Tigger Well #3.
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Attachment #2 – System Map Misty Mountain PWS July 18, 2023 Page 1 of 1

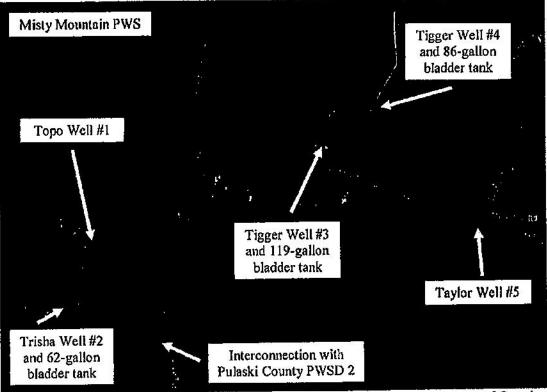


Figure 1: Overhead view of the Misty Mountain public water system. Image courtesy of Google Maps.

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INSTRUCTIONS Section A. Sanitary Defect Checklist: Rev		ALCONTRACTION	n States			
section of Corrective Actual Provide con- corrective actions for issues identified in sec- completing each scheduled corrective action. Return this form to appropriate department Retain a copy of this completed assessment	ent regional office w t form in your files	dibin 30 days (from no for at least five years.	dification dat			
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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 coliformpositive 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".
- 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."
- 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.
- 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 573-52-3322, 1101 Riverside Dr. Jefferson City, MO 65102-0176.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM - PUBLIC DRINKING WATER				DATE RECEIVED	Yes No	
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				MODNE REVIEWER	DATE APPROVED	
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Section 5, Description of Occurrence: F Section C, Corrective Action: Provide concorrective actions for issues identified in second completing each scheduled corrective action Return this form to appropriate department Retain a copy of this completed assessing Section A – Saultary Defect Checklist H	ctions A and B. Notity th m. ment regional office with ant form in your files for ave any of the following o	is appropriate i In 30 days (fro at least five); iccurred?	m notification d	ate above).	gional office BHer	
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5. BLADDER AND PRESSURE TANKS	No issues Not Applicable
A. Air/water tanks; air added recently	C. Bladder of bladder tank ruptured or waterlogged
B. If "A" is checked, is air filter dirty	Z. Other:
6. TREATMENT PROCESS	No issues Not Applicable
A. Inadequate disinfection	G. Change in flow rates or water quality
B. Interruption in treatment/power loss	H. Meters not recently/properly calibrated
 C. Chlorine/Turbidity meters out of range D. Change in chemical desage 	J. Treatment bypassed J. Treatment addod or changed
E. O and M procedures not followed	K. Softener servicedisalt added
F. Recent repairs or maintenance performed	Z. Other
7. SOURCE(6)	
WELLS:	🗋 No issues 🔲 Not Applicable
A. Defectivo/damaged well cap/well soal	G. Potential source of contomination near well
B. Damaged/unscreened well vent	H. Damaged well casing
C. Floodwater/run-off inundation near well D. Weil recently repaired/wellhead opened	 I. Damaged pittess adeptor J. Mitsing/damaged grout seal
E. Unplugged abandoned well in arcs	Z, Other:
F. Ungrotected Opening in weithesd/pump	VI No issines Not Applicable Cannot
SURFACE WATER/GWUDISW:	No isines I Not Applicable
A. Resent flooding or heavy rainful)	D. Damaged intake or spring box
B. Change in source water quality	Z. Other:
C. Any potential source of contamination near source	
PURCHASED WATER:	
A. Water quality issues with supplier	2. Other:
B. Low disinfectant residual from supplier (< 0.2 mg/L)	ovide explanation and additional information for any issues identified in Section A
betton B - Description of Occurrence: Use this space to pro- that support your findings (i.e. water quality and pressure mon	toring date). Include comercinations dates with white findings
Check if PWS did not find any causes for the contamination	
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planned completion dates. Notify your local regional office aft	er completing each scheduled corrective action.
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	ue trigger within a rolling 12-month period will require a Level 2 assessment.
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Page 88



Michael L. Parson Governor

> Dru Buntin Director

July 18, 2023

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

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 <u>DNRCFO.PDW@dnr.mo.gov</u>.

Sincerely,

CENTRAL FIELD OPERATIONS

Sebastien Clos-Versailles Environmental Supervisor

Enclosure: Report of Inspection

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: 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
- 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
- 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 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 <u>DNRCFO.PDW@dnr.mo.gov</u>.

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:

<u>Charity PWS</u> Travis Blevins Lori Jean	Owner Chief Operator	573-855-2769 417-425-9343
Missouri Department of Nat Sebastien Clos-Versailles	tural Resources Environmental Supervisor	573-526-0459 sebastien.clos-versailles@dnr.mo.gov
Jackie Johnson	Environmental Specialist	<u>573-751-4414</u> 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, 1 119-gallon bladder tank, 3 86-gallon bladder tanks and I 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.

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

Report of Inspection Charity PWS July 18, 2023 Page 3 of 15

Table #1 Analyte Monitoring Schedule								
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)	i	Every six years per Well	2028					
Volatile Organic Chemicals (VOC)	1	Bvery 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	ı	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.

Table #2 Well Specifications										
Well ID	Installation Date	Casing Depth (fl)	Casing Diameter (in)	Total Depth . (ft)	Pump Capacity (gpm)	Ритр Турс	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		

Report of Inspection Charity PWS July 18, 2023 Page 4 of 15

12.5	Table #3 Well Appurtenances											
Well ID	Breather . Vent	Pump to Waste	Sample Tap	Access Hatch	Lightning Protection	Casing18" above ground level	Isplution 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	
Charily Well #3	Y	N	Y	N/A	-	Y	Y	Y	N	N	N	
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.

1.3 m	Table #4	
	Tank Information	la sur Costalation
Well	Tanks	Photo
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 values 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 colliform 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.

Bacterio	Table #1		ion	
Location	Free Residual mg/L	Total Residual mg/L	Total Coliform	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 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, 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.

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 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.

2. 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:

Report of Inspection Charity PWS July 18, 2023 Page 8 of 15

> 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 <u>DNRCFO.PDW@dnr.mo.gov</u>.

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).

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

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

2. 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

5. 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 http://www.cadroughtprep.net/images/Drought/Well%20Drawdown.pdf. 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 <u>https://dnr.mo.gov/document-search/water-well-heat-pump-plugging-registration-report-mo-780-1603</u>. 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: <u>https://www.sos.mo.gov/adrules/csr/current/10csr/10csr</u>.

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: https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility. For more information on emergency planning, visit http://water.epa.gov/infrastructure/watersecurity/emerplan/.

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: <u>https://dnr.mo.gov/water/what-were-doing/water-planning/missouri-water-resources-plan</u>. To register online or for mail-in forms go to: <u>https://dnr.mo.gov/document-search/major-water-use-registration-mo-780-2019</u>. 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: https://dnr.mo.gov/env/wpp/pdwb/permits.htm. 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 Instillation 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 <u>DNRCFO.PDW@dnr.mo.gov</u>. For assistance with compliance issues or general technical assistance, you may also contact Central Field Operations at the above contacts.

Signatures

SUBMITTED BY:

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Sebastien Clos-Versailles Environmental Inspector Central Field Operations

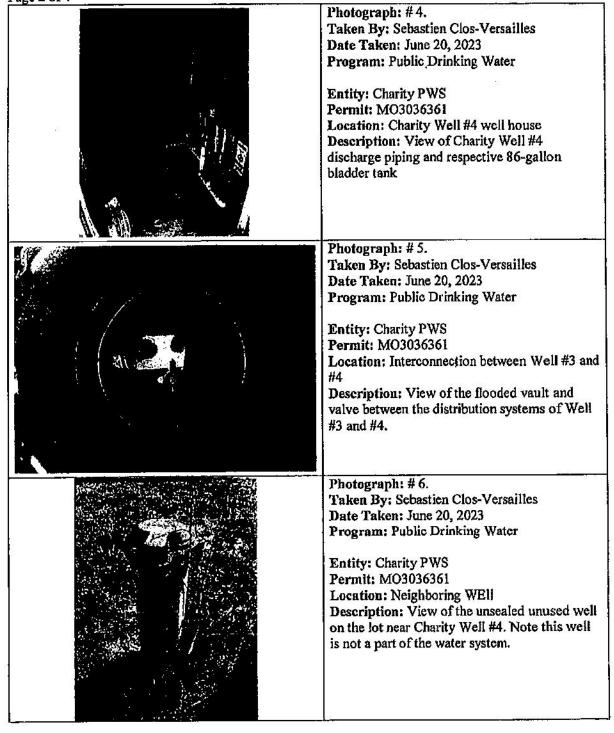
REVIEWED BY:

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 #1 - Photographs Charity PWS July 18, 2023 Page 2 of 4



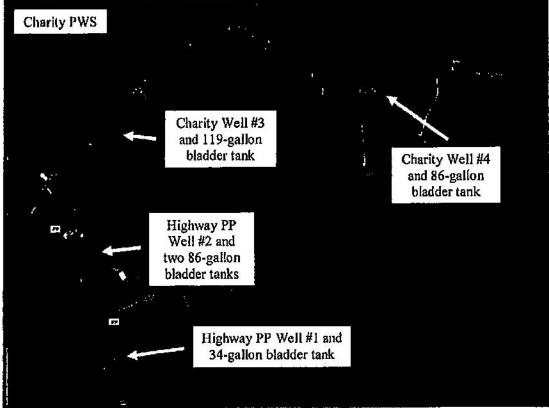
Attachment #I - Photographs Charity PWS July 18, 2023 Page 3 of 4

	Photograph: # 7.
	Taken By: Sebastien Clos-Versailles
	Date Taken: June 20, 2023
	Program: Public Drinking Water
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	Entity: Charity PWS
	Permit: MO3036361
	Location: Highway PP Well #2
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「 「 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」	Location: Highway PP Well #2 well house
	Description: View of the well house for
	Highway PP Well #2
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	Photograph: # 9.
	Taken By: Sebastien Clos-Versailles
	Date Taken: June 20, 2023
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• 4j	Entity: Charity PWS
	Permit: MO3036361
A CONTRACTOR AND A CONTRACTOR	Location: Highway PP Well #2 well house
	Description: View of the discharge piping and
	respective two 86-gallon bladder tanks for
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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



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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 <u>leontravis@yahoo.com</u>

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 DNRCFO.PDW@dnr.mo.gov.

Sincerely,

CENTRAL FIELD OPERATIONS

Sebastien Clos-Versailles Environmental Supervisor

Enclosure: Report of Inspection

c: 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
- 3. 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 Sebasticn Clos-Versailles at Central Field Operations at (573) 522-3322 or at <u>DNRCFO.PDW@dnr.mo.gov</u>.

Missouri Department of Natural Resources Central Field Operations Report of Inspection Rolling Hills PWS Rustler Laue, 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:

<u>Rolling Hills PWS</u> Travis Blevins Lori Jean	Owner Chief Operator	573-855-2769 417-425-9343
Missouri Department of Na Sebastien Clos-Versailles	tural Resources Environmental Supervisor	573-526-0459
Jackie Johnson	Environmental Specialist	sebastien.clos-versailles@dnr.mo.gov 573-751-4414 isotie isobason@dnr.mo.gov
		jackie.johnson@dnr.mo.go

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.

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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 1 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.

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Ana		le #1 oring Schedule	
Analyte	Number of Sample(s)	Frequency	Next Scheduled Action
Bacteria	1	Monthly, Wells & Distribution System	Every month, every year
Nitrate/Nitrite	1	Bvery 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

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

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.

Table #2 Well Specifications										
WellID	Installation Date	Casing Depth (N)	Casing Dianieter (iji)	Total Depth (ft)	Pump Capacity (gpm)	Ритр Туре	WIMS Record ID	State Approved ID		
Well #1	02/11/2007	160	6	445	10	Submersible	00402070	N/A		

Table #3 Well Appurtenances											
Well ID	Breather Vent	Pump lo Waste	Sample Tap	Access Hatch	Lightning Protection	Casing18" above ground level	Isolation Valve	Pressure Gauge	Drawdown Gauge	Check Valve	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

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#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.

Bacteriolo	Table #4 logical Sample Information						
Location	Free Residual mg/L	Total Residual mg/L	Total Coliform	E. 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 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 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.

2. 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).

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> 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. 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 <u>DNRCFO.PDW@dnr.mo.gov</u>.

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.

2. 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.

5. 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.

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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 http://well%20Drawdown.pdf.

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.

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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: https://www.sos.mo.gov/adrules/csr/current/10csr/10csr.

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: <u>https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility</u>. For more information on emergency planning, visit http://water.epa.gov/infrastructure/watersecurity/emerplan/.

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: <u>https://dnr.mo.gov/water/what-were-doing/water-planning/missouri-water-resources-plan</u>. To register online or for mail-in forms go to: <u>https://dnr.mo.gov/document-search/major-water-use-registration-mo-780-2019</u>. For further information or questions, contact the Water Resources Center at 573-368-2100.

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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: https://dnr.mo.gov/env/wpp/pdwb/permits.htm. 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 <u>DNRCFO.PDW@dnr.mo.gov</u>. For assistance with compliance issues or general technical assistance, you may also contact Central Field Operations at the above contacts.

Signatures

SUBMITTED BY:

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Sebastien Clos-Versailles Environmental Inspector Central Field Operations

Attachments:

REVIEWED BY:

Arthur Goodin, CHMM Deputy Director Division of Environmental Quality

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

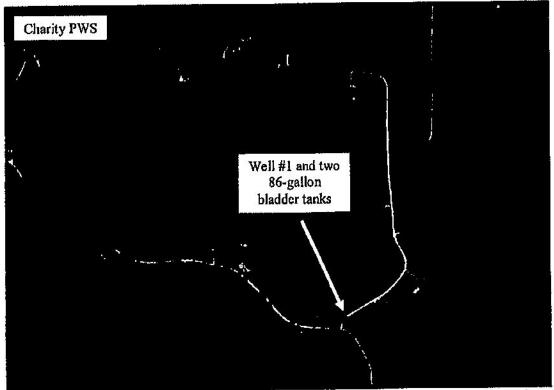


Figure 1: Overhead view of the Rolling Hills public water system. Image courtesy of Google Maps.



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

mm

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
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 andCapacity 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.

Lance Dorsey Page 2

- 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 NATURAL	RESOURCES			PROJECT NUMBER					
WELL DETERMINA	DATE RECEIVED									
WELL DETERMINATION FORM 8/7/2023 The purpose of this form is to collect information about wells constructed without authorization from the Public Drinking Water Branch to serve, or will serve, a public water system (PWS) and to identify the necessary agreements that must be in place to allow the FWS to compare the term of term o										
The purpose of this form is to collect serve, or will serve, a public water a permit to dispense from the Depa	system (PWS) an	ut wells constructed d to identify the nec	a without authorization fro cossary agreements that n	m the Public Dri nust be in place	nking vvater Branch that to allow the PWS to obtain					
INSTRUCTIONS		2								
This form is for discovered water	systems and exi	sting PWS using a	a well without prior const	ruction authoriz	ation. It is NOT					
construction of the well t 2. Rectoral office must suit	I complete Section from the PWS. bmit the form and	n 1. The regional supporting docu	office should also reque	st any relevant ()dnr.mo <u>.qov</u> .	documents related to the					
3. Water Resources Cente 4. Water Resources Cente 5. Public Drinking Water B	er shall complete er must submit th tranch shall com	Section 2 and incl e form and support plete Section 3 and	luce any additional supp rting documents to <u>powb</u> d make a final well deten	orting documen engineeringwa mination based	terpermits@dnr.mo.gov on the Information					
provided and Section 12 Manual.	2,2.5 of the Depa	riment's Procedur	es for Assistance, Comp	ance, and En	orcement (PACE)					
1. GENERAL INFORMATION (T										
Type of Public Water System:	: 🛄 Communi	iy 🛄 Nontransie			ncommunity					
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PUBLIC WATER SYSTEM OWNER			WELL OWNER (Is different from)	Notic Writer System O	(Income)					
Travis Blevins			<u> </u>	2	1					
15405 Texas Road, PO BOX	X 882									
CITY	STAT			ZIP CODE 65584	Pulaski					
St. Robert	the second s	SOURI	LONGITUDE	100004	DGLS LOGAMIMS ID					
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15										
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Tracey Mason			08/04/2023							
ADDITIONAL COMMENTS										
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PUBLIC ORINKING WATER BRANCH REVIEWER Tasneom Khan	SIGNATURE					
	SIGNATURE	DATE 08/14/23				

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provided and \$ Manual.	Section 12.2.5 of the	Department's Pro	ocedures fo	Assistance, Comp	Nance, and Enfo	rcement (PACE)
1. GENERAL INFORM					<u>.</u>	· · · · · ·
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Travis Blevins	<u></u>			······································		
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WATER RESOURCES CONTACT Tracey Mason		- 0.000 	0A1 08/	e 04/2023		
ADDITIONAL COMMENTS			. 			

PUBLIC WELL	GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained:	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity: U Yes U No	Well serves a Charitable or Benevolent Organization (COBO), without a school or daycare:
Or Transient well drilled before July 1, 2018, met minimum standards but not issued a construction permit: Yes No N/A	If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603): ☐ 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 addillonal 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-Lew date but before 1/1/13: Yes No If yes, well(s) under common ownership: Yes No If yes, constructed to Domestic or Multi- family standards 10 CSR 23-1.010: Yes No Unknown Please list number of domestic wells, number of multi-femily 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	SIGNATURE	DATE

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MISSOURI DEPARTMENT OF NATURAL RESOURCES PROJECT NUMBER DE MISSOURI DEPARTMENT OF NATOR 3000049-22R DATE RECEIVED WELL DETERMINATION FORM 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. 2. Water Resources Center shall complete Section 2 and include any additional supporting documents. 3. Water Resources Center must submit the form and supporting documents to pdwb.engineeringwaterpermits@dnr.mo.gov 4. Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information 5 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 diserent from Public Water System Owner) PUBLIC WATER SYSTEM OWNER Travis Blevins WAILING ADDRESS 15405 Texas Road, PO BOX 882 ZIP CODE COUNTY STATE CITY 65584 Pulaski Missouri St. Robert DGLS LOGAMINS ID LONGITUDE LATITUDE LOCAL WELL NAME -92.100086 00403720 37.801778 Well #1 Topo Drive LOCATED < 50 FEET FROM SURFACE WATER? DATE DRILLED (If unknown, best estimate) SOMIS WELL SITE ID Yes No 03/29/2007 WL 20295 OATE 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 WELL YIELD (9pm) CASING DEPTH (1) CASING SIZE (in) CASING MATERIAL I AOUIFER TOTAL DEPTH (II) 38 Plastic 120 6 480 UNCONFINED AQUIFER? PUMP CAPACITY (gpm) If Anumal, Screen Length PUMP SIZE PUMP DEPTH (0) Yes No Unknown 460 20 Well/Pump Receipt WIMS Record 00403720 Drillers Log Geology Log Other. Construction Plans Approval Letter Building Date (Co. Assessor) 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 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 Piease provide additional slic-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 addillonal sile-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 Mulli- family standards 10 CSR 23-1.010: Yes No Yes No 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	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.

- 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.
- 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
- 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 INFO	MATION (To be completed b	y the Regional	Office									
Type of Public Wa	ter Systen	n: 🗖 Community	🚺 Nontransie	ent No	ncommunity	🛛 Тта	ansient None	community					
PUBLIC WATER SYSTEM N/	ME			PUBLIC	WATER SYSTEMID	NO.		ACTIVATION DATE					
	Aisty Mountain PWS UBUC WATER STSTEM OWNER TAVIS Blevins UBUC WATER STSTEM OWNER TAVIS ADDRESS 5405 Texas Road, PO BOX 882 ATY St. Robert Cock Well ANME LATIFUDE COCK WELL NAME LATIFUDE ST.801778 DVMIS WELL SITE ID DATE DRILLEO (IF LINA							07/19/2022					
	WNER			WELL	WINER (il diferent fro	AL MODIC	WELE SYSTEM OWN	ar)					
		(<u>1</u>)											
		X 882											
CTY CTY	0,1000						PCODE	COUNTY					
St. Robert		Misso	ouri			65	5584	Pulaski					
LOCAL WELL NAME	<u> </u>	LATITU	DE		LONGITUDE			DOLS LOOMINS ID					
Well #1 Topo Driv	e	37.80	1778		-92.100086	3		00403720					
SDWIS WELL SITE ID			FILLEO (IL UNINOMA, DO	si estmale) [.]			ET FROM SURFACE WATER?					
WL 20295		03/29	/2007					40					
					DATE 08/04/2023								
2													
2. WELL CONSTRU	ICTION IN	ORMATION (To be	e completed by	the W	ater Resource	s Cent	ter)						
Type of Well Drille	d: 🛄 Pul	lic Domestic	Multi-fami	ly 🗖	Pre-law	Unkna	nwc						
TOTAL DEPTH (N)		CASING DEPTH (II)	CASING SIZE (In)	CASIN	3 MATERIAL		LL YIELD (ppm)	AQUIFER					
480		120	6	Plas	tic	38							
PUMP SIZE PUM 460	P DEPTH (ft)	PURIP CAPACITY (gpm)	Y Alluviel, Screen Lt	ngint			Yes No	Direction Direction					
Geology Log		WIMS Reco	ord 00403720		Drillers Log)	D We	II/Pump Receipt					
Building Date (C	o. Assesso				Approval Le	etter	🗍 Oth	19					
WATER RESOURCES CONT		<u> </u>		DATE									
Tracey Mason			82.	08/0	4/2023	28							
ADDITIONAL COMMENTS	12	335											

	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	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):	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
Construction permit: ☐ Yes ☐ Nc ☐ N/A		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	Drilled after applicable Pre-Law date but before 1/1/13: Yes INo	Well does not meet any other eligibility category in this section:
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.	If yes, well(s) under common ownership: Yes No If yes, constructed to Domestic or Multi- family standards 10 CSR 23-1.010: Yes No Unknown Please list number of domastic wells, number of multi-family wells, and the number of connections for each well in the comments section below.	Please provide additional site-specific information in the comments section.
Tasneem Khan	SIGNATURE	DATE

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PRIMARY CON BUSINESS BOESSEN UN			PERMIT # 001548	NAME KEN	NETH E	BOESS	EN									

DRILLER APPRENTICE BUSINESS BOESSEN UNDERGROUND CONST	PERMIT # 004693	NAME BRIAN STEGEMAN	
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MISSOURI DEPARTMENT OF NATURAL RESOURCES PUBLIC DRINKING WATER BRANCH WELL DETERMINATION FORM

PROJECT NUMBER 3000049-22R OATE 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 obtein 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.
- 4. Water Resources Center must submit the form and supporting documents to pdwb.englneeringwaterpermits@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 I	NFORMATION (To be completed b	y the Regional	Office)							
		n: 🔲 Community		ent None	ommunity 🗖	Transier	nt Nonco	mmunity			
PUBLIC WATER SYST				PUBLICY	ATER SYSTEM ID NO		A	CTIVATION DATE			
Misty Mountair				MO30			1.023	7/19/2022			
PUBLIC WATER SYST				WELL ON	NER (If different from F	ublic Water Sy	atem Owner)				
Travis Blevins	S			<u> </u>							
MAILING ADDRESS											
	Road, PO BC						(<u>-</u>	AL (1977			
St. Robert		MISSO	ouri			21P CODE 65584		Pulaski			
LOCAL WELL NAVE	محمد	LATITUE			LONGITUDE		D	GLS LOGMINS ID			
Well #1 Topo	Drive	37.80	X See		-92.100086		0	0403720			
SOWIS WELL SITE ID			RILLED (If unknown, be	(ofsmilto is				FROM SURFACE WATER?			
WL 20295	•	03/29/	2007				es 🗔 No				
REGIONAL OFFICE C	ONTACT			DATE				de billideteris			
Dalten Young			antrata 1	08/04/	2023						
		ORMATION (To be						. <u> </u>			
	Drilled: 🛄 Put	olic 🔲 Domestic	🛄 Multi-fami			iknown					
TOTAL DEPTH (N) 480		CASING DEPTH (A) 120	CASING SIZE (In)	Plastic	ATERIAL	WELL YIELD		QUIFER			
PUMP SIZE	^{троир} оертн (л) 460	PURIP CAPACITY (gpm) 20	If Aluvie), Screen Le	ngih:							
Geology Log	9	WIMS Reco	rd 00403720		Drillers Log			Pump Receipt			
	te (Co. Assessor	r) Construction	Plans	- C] Approval Lett	er	Other	100			
WATER RESOURCES				DATE							
Tracey Masor		220		08/04/	2023						
ADDITIONAL COMME	NTS										

PUBLIC WELL	GRANDFATHERED (PRE-LAW) WELL	COBD WELL				
Construction permit oblained: 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 daycare: Yes No If yes, serves <100 people 60 days/yea 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 RSM0 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 Multi- family standards 10 CSR 23-1.010: Yes No Yes No 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.				
	SIGNATURE	DATE				
Tasneem Khan						
	UNIT CHIEF SIGNATURE	DATE				
PUBLIC DRINKING WATER BRANCH UNT CHIEF NAME		08/14/23				

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SITE NAME ADDRESS (STREE TREETOP & TAYL						TREE	EET, CITY, STATE, ZIP) YLOR RD ST ROBERT, MO									
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OWNER NAME										STATE, ZI						
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SCREEN TYPE			ALTOP	BOTTOM	SLOI	5125	PAC		200	<u></u>		RMATION				
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PUMP INSTALLI BUSINESS	ER APPF	RENTICE	PERMIT #	NAME						<u> </u>						
DRILLER INFO	RMATI	ON	I													
DRILLER BUSIN IBERIA WELL PUMP S			PERMIT # 003273	NAME SC	OTTIE WILSON											
PRIMARY CONT BUSINESS	RACTO	R	PERMIT #	NAME												
DRILLER APPRI BUSINESS	ENTICE		PERMIT #	NAME												



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 DV 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 Lanc, 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: Sebasticn Clos-Versailles, Central Field Operations Tracey Mason, Water Resources Center

PO Box 176, Jefferson City, MO 65102-0176 • dnr.mo.gov

Page 147

WELL DETERMINATION F				PROJECT NUMBER					
				DATE RECEIVED					
				08/07/2023					
The purpose of this form is to collect informatic serve, or will serve, a public water system (PW a permit to dispense from the Department.	n about wells constructed (S) and to identify the nec	d without authorization from cassary agreements that mu	the Public Drin st be in place to	king Water Branch that b allow the PWS to obtain					
INSTRUCTIONS	· · · · ·								
This form is for discovered water systems at necessary to complete this form for a PWS to 1. The regional office shall complete s construction of the well from the PW	that obtained a construct Section 1. The regional VS.	tion permit in accordance office should also request a	with 10 CSR 6 any relevant d	0-3.					
 Regional office must submit the form and supporting documents to <u>tracey.mason@dnr.mo.gov</u>. Water Resources Center shall complete Section 2 and include any additional supporting documents. Water Resources Center must submit the form and supporting documents to <u>pdwb.engineeringwaterpermits@dnr.mo.gov</u>. 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) 									
provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Manual.									
1. GENERAL INFORMATION (To be comp	leted by the Regional	Office)		2					
Type of Public Water System: 🔲 Com			ransient Nor						
PUBLIC WATER SYSTEM NAME		ACTIVATION DATE							
Rolling Hills PWS		MO3036362 WELL OWNER (It different from Public	ic Water System Ow						
Travis Blevins			<u></u>						
MAILING ADDIVIESS				646					
15405 Texas Road, PO BOX 882	STATE		ZIP CODE	COUNTY					
St. Robert	Missouri		35584	Pulaski					
LOCAL WELL NAME Well #1	1411TUDE 37.804841	02.330931		DGLS LOGMINS ID 00402070					
SOWISWELL SITE ID WI 20293	DATE DRILLED (If unknown, be 02/11/2007	al ostinale)	LOCATED < 50	FEET FROM SURFACE WATER?					
		DATE	68993						
Dalten Young		DATE 08/04/2023	alasan anta secondar						
Dalten Young Additional Coviments		08/04/2023							
Dalten Young Additional coviments 2. WELL CONSTRUCTION INFORMATION		08/04/2023 the Water Resources Ce		• • • •					
2. WELL CONSTRUCTION INFORMATION Type of Well Drilled:	nestic 🔲 Multi-fami	the Water Resources Ce	nown						
Dalten Young Additional coviments 2. WELL CONSTRUCTION INFORMATION	nestic 🔲 Multi-fami	08/04/2023 the Water Resources Ce ly Dre-law Unku	10WN VELL YIELD (gpm)	AQUIFER					
Daiten Young ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION Type of Well Drilled: Dor TOTAL DEPTH (n) 445 PUMP SIZE PUMP CAPACIT 380	Mestic Multi-famil (A) CASING SIZE (IN) 6 Y (gam) If Alivial Eccente	the Water Resources Ce ly Pre-law Unku CASING INATERIAL V Plastic 4 Aguin: U	NOWN VELL YIELD (gam) 5 INCONFINED AQUIR YES N	ега o 🔳 Unknown					
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Dalten Young ADDITIONAL COMMENTS 2. WELL CONSTRUCTION INFORMATION Type of Well Drilled: Doing Total CEPTH (h) CASING DEPTH 445 PUMP SIZE PUMP SIZE PUMP CAPACIN 380 10 Geology Log	Multi-famil (h) CASING SIZE (in) 6 6 Y (gan) If Asimal, Scentus S Record 00402070	the Water Resources Ce ly Pre-law Unki CASING IMATERIAL Plastic 4 neit: [Drillers Log	10WN VELL YIELD (gpm) 5 NOONFINED AQUI Yes N W	епа о 🔳 Unknown ell/Pump Receipt					
Dalten Young ADDITIONIAL COMMENTS 2. WELL CONSTRUCTION INFORMATION Type of Well Drilled: Doint Total Depth (n) CASING DEPTH (n) 445 PUMP SIZE PUMP SIZE PUMP SIZE PUMP SIZE PUMP CAPACID 380 10 Geology Log Building Date (Co. Assessor) WMTER RESOURCES CONTACT	Multi-famil (h) CASING SIZE (in) 6 6 Y (gan) If Asimal, Scentus S Record 00402070	the Water Resources Ce y Pre-law Unkr CASING INATERIAL Plastic Agin: Drillers Log Approval Letter	10WN VELL YIELD (gpm) 5 NOONFINED AQUI Yes N W	епа о 🔳 Unknown ell/Pump Receipt					

Construction permit obtained:	GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Yes, Review No No Pr Fransient well drilled before July 1, 2018, net minimum standards but not issued a construction permit:	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:	Drilled after applicable Pre-Law date but before 1/1/13: Yes No	Well does not meet any other eligibility category in this section:
If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 258.603): Yes No Please provide additional site-specific information in the comments section.	If yes, well(s) under common ownership: Yes No If yes, constructed to Domestic or Multi- family 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.	Please provide additional site-specific information in the comments section.
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Tasneem Khan	SIGRATURE	DATE 8/7/2023 DATE

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Michael L. Parson Governor

> Dru Buntin Director

MEMORANDUM

September 5, 2023
Lance Dorsey, Environmental Program Manager Compliance and Enforcement Section, PDWB
Diane Vitello, Environmental Program Manager Permitting and Capacity Development Section, PDWB
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.

PO Box 176, Jefferson City, MO 65102-0176 - dnr.mo.gov

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 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

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

MISSOURI DEPARTMENT OF N				PROJECT NUMBER 3000051-22R						
WELL DETERMINATION	FORM			DATE RECEIVED 8/7/2023						
The purpose of this form is to collect inform serve, or will serve, a public water system a permit to dispense from the Department INSTRUCTIONS	(PWS) and to identify the ne	ed without authorization from cessary agreements that mu	the Public Drin st be in place t	king Water Branch that o allow the PWS to obtain						
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 <u>tracey,mason@dnr.mo.goy</u>. Water Resources Center shall complete Section 2 and include any additional supporting documents. Water Resources Center must submit the form and supporting documents to <u>pdwb.engineeringwaterpermits@dnr.mo.goy</u> 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 Translent Noncommunity										
	community 1.1 Nontransi	Ent Noncommunity L	ransient Noi	ACTIVATION DATE						
Charity PWS		MO3036361		07/19/2022						
PUBLIC WATER SYSTEM OWNER		WELL OWNER (If different from Put	lic Water System Dw	ner)						
Travis Blevins	·····	1		61 AMARAS 310						
15405 Texas Road PO Box 882										
ary	STATE		ZIP CODE	COUNTY						
St. Robert			65584	Pulaski						
Well #1 Highway PP	37.888120	92.056101		00228532						
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REGIONAL OFFICE CONTACT		DATE								
Dalten Young		08/04/2023	- 776	2						
ч -										
2. WELL CONSTRUCTION INFORMA										
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Building Date (Co. Assessor)	Construction Plans	Approval Letter	<u> </u>	lher						
WATER RESOURCES CONTACT Tracey Mason		08/04/2023								
ADDITIONAL COMMENTS			(a.)							
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	GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained: Yes, Review No No Or Transient well drilled before July 1, 2018,	Drilled before 10/01/1979 for community or 07/27/1987 for noncommunity: Yes I No If yes, well in continuous use (i.e. does NOT meet the definition of abandoned per RsMo 256.603):	Well serves a Charitable or Benevolent Organization (COBO), without a school of daycare: Yes INO If yas, serves <100 people 60 days/year: Yes INO
met minimum standards but not issued a construction permit: Yes No NA		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 (B) No	Drilled after applicable Pre-Law date but before 1/1/13: I Yes No	Well does not meet any other eligibility category in this section: Yes IN 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 sfle-specific Information in the comments section.	If yes, well(s) under common ownership: Yes No If yes, constructed to Domestic or Multi- family 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.	Please provide additional site-specific Information in the comments section.
ADDITIONAL COMMENTS Subdivision policy eligible.		
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MISSOURI DEPARTMENT OF NATURAL RESOURCES

WELL DETERMINATION FORM

PROJECT NUMBER 30000051-22R 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.
- 4. Water Resources Center must submit the form and supporting documents to pdwp.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 INFORMATIC	ON (To be completed by	the Regional O	filce)								
Type of Public Water Sys	stem: 🗖 Community	Nontransient	Noncomm	unily 🗖 🕯	Fransient M	Voncommunity					
PUBLIC WATER SYSTEM NAME			UBLIC WATER SY	STEM ID NO.		ACTIVATION DATE					
Charity PWS		100	103036361			07/19/2022					
PUBLIC WATER SYSTEM OWNER		1	WELL OWNER (If different from Public Water System Owner)								
Travis Blevins											
MAILING ACORESS											
15405 Texas Road PO				_							
CITY	STATE				ZIP CODE	COUNTY					
St. Robert	Misso	uri 🛛			65584	Pulaski					
LOCAL WELL NAME	LATTUD	ï	LONGIT		(DOLS LOG/WIMS ID					
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Building Date (Co. Asse	ssor) Construction	Plans	C) App	roval Letter	r 🗖	Other					
WATER RESOURCES CONTACT		<u> </u>	DATE								

Tracey Mason

ADDITIONAL COMMENTS

08/04/2023

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:	Well serves a Charitable or Benevolant Organization (COBC), 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
NONCOMPLIANT WELL POLICY ELIGIBLE	SUBDIVISION POLICY ELIGIBLE	Information in the comments section.
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):	Drilled after applicable Pre-Law date but before 1/1/13: Yes No if yes, well(s) under common ownership:	Well does not meet any other eligibility category in this section: Yes No Please provide additional site-specific information in the comments section.
Yes No Please provide additional site-specific information in the comments section.	If yes, constructed to Domestic or Multi- family standards 10 CSR 23-1.010:	
ADDITIONAL COMMENTS	Please list number of domestic wells, number of multi-family wells, and the number of connections for each well in the comments section below.	·
Subdivision policy eligible.		
	SIGNATURE	DATE
Tasneem Khan		8/7/2023
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Image: Missouri Department of Natural Resources PROJECT NUMBER Image: Public Drinking Water BRANCH 3000051-22R Image: Determination Form Date Received												
WELL DETERMINATION FO	DRM			8/7/2023								
The purpose of this form is to collect informatio serve, or will serve, a public water system (PW a permit to dispense from the Department. INSTRUCTIONS	n about wells constructe S) and to identify the nec	d without authorization from cessary agreements that m	n the Public Dr rust be in place	inking Water Branch that to allow the PWS to obtain								
 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. 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.engineerinowaterpermits@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) 												
provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE) Menual. 1. GENERAL INFORMATION (To be completed by the Regional Office)												
Type of Public Water System: Com			Transient Nr	acommunity								
PUBLIC WATER SYSTEM NAME	nunity in nontransie	PUBLIC WATER SYSTEM ID NO.	Tationelicity	ACTIVATION DATE								
Charity PWS		MO3036361		07/19/2022								
PUBLIC WATER SYSTEM DWNER WELL OWNER (II different from Public Water System Owner) Travis Blovins Mailing ADDRESS												
15405 Texas Road PO Box 882												
offy St. Robert	state Missouri		ZIN CODE 65584	COUNTY Pulaski								
LOCAL WELL NAME Well #1 Highway PP	140100€ 37.888120	10NGITUDE		DGLS LOGWIMS ID 00228532								
Sponswell site in	DATE DRILLED (Hunknown, be	- MALER - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1		FEET FROM SURFACE WATER?								
WL 20289	07/03/1999	1 2 2 2	Yes 🖸	No								
REGIONAL OFFICE CONTACT Daiten Young		08/04/2023										
2. WELL CONSTRUCTION INFORMATION	(To be completed by	the Water Resources C	enter)									
Type of Well Drilled: Public Dor				36 								
TOTAL DEPTH (III) CASING DEPTH 350 210	(II) CASING SIZE (In) 8	CASING MATERIAL	WELL, YIELD (opm) 40 UNCONFINED AQU	6 - B								
PUMP SIZE FUMP DEPTH (1) PUMP CAPACIT	Y (gpm) If Altuvial, Scroen Let	uðar		No Unknown								
	S Record 00228532	Drillers Log	Second Street	Vell/Pump Receipt Nher								
WATER RESOURCES CONTACT		DATE 08/04/2023										
Tracey Mason Additional comments	· · · · · ·	00/04/2025										

	GRANDFATHERED (PRE-LAW) WELL	COBO WELL
Construction permit obtained: Yee, Review No No Dr Fransient weil drilled before July 1, 2018, net 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 INO 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 Drilled after applicable Pre-Law date but before 6/15/07:	SUBDIVISION POLICY ELIGIBLE Drilled after applicable Pre-Law date but before 1/1/13:	UNAUTHORIZED WELL Well does not meet any other eligibility category in this section; 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.	If yes, well(s) under common ownership: Yes No If yes, constructed to Domestic or Multi- family standards 10 CSR 23-1.010: Yes No Unknown Please list number of domestic wells,	Please provide additional site-specific Information in the comments section.
ADDITIONAL CONMENTS	number of multi-family wells, and the number of connections for each well in the comments section below.	
Subdivision policy eligible.	of connections for each well in the comments	DATE
Subdivision policy eligible.	of connections for each well in the comments	DATE 8/7/2023 DATE

			RTMENT	OF				FOR OFFICE USE ONLY										
	SSOUR	Multi-F	RCES DGICAL S amily, Hi Pump We	gh Yield,	Publi	c, and			FERE MBEF 002	₹	CE 3361	R	EVE	NUE N		BER 701		
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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@dnc.mo.gov.
- Water Resources Center shell complete Section 2 and include any additional supporting documents. 3.
- Water Resources Center must submit the form and supporting documents to pdwb.engineeringwaterpermits@dnr.mo.gov 4. Public Drinking Water Branch shall complete Section 3 and make a final well determination based on the information 5. provided and Section 12.2.5 of the Department's Procedures for Assistance, Compliance, and Enforcement (PACE)

CEMEDAL INCORRATION	To be semplated b	with a Dealeral	000-							
Type of Public Water System	n: Community	Nontransie	ant No	ncommunity	Transie	ent Non				
			WATER SYSTEM ID N 036361	ю.		ACTIVATION DATE				
WUNG ADDRESS 5405 Texas Road PO Box 882 TY STATE MIssouri CAUTODE COAL WELL NAME CAUTODE Vell #1 Highway PP 37.888120 DMS WELL STIETD DATE DRILLED (IF OR 07/03/1999 EGIONAL OFFICE CONTACT CAUTODE Value 07/03/1999 EGIONAL OFFICE CONTACT 07/03/1999 EGIONAL COMMENTS CAUTODE OWELL CONSTRUCTION INFORMATION (To be completed on the comple				WNER (I a herent from	Ch de Car Milatan	07/19/2022				
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MAILING ADDRESS			ł_,			532				
15405 Texas Road PO Box	882									
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Dalten Young			08/04	\$/2023						
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2. WELL CONSTRUCTION INF	ORMATION (To be	completed by	the W:	ter Resources	Center)					
		10-26		Pre-law		~~~~~				
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Building Date (Co. Assessor)) 🔲 Construction	Plans		Approval Let	ter	00	191191			
			DATE							
			08/04	1/2023	1444 M 1					
ADOITIONAL COMMENTS										
				20						

PUBLIC WELL	GRANDFATHERED (PRE-LAW) WELL	COBO WELL					
Construction permit obtained: Yes, Review No No Dr 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 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 RaMo 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 Mulli- family standards 10 CSR 23-1.010: Yes No Unknown Please list number of domestic wells, number of mulli-family wells, and the number of connections for each well in the comments aection 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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Subdivision policy eligible.	SKANATURE	DATE					
PUBLIC ORINKING WATER BRANCH REVIEWER	SIGNATURE						
PUBLIC DRINKING WATER BRANCH REVIEWER Tasneem Khan	SIGNATURE	DATE 8/7/2023 DATE					

	MISSOURI DEPARTMENT OF									FOR OFFICE USE ONLY								
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DRILLER APPRE BUSINESS	NTICE		PERMIT #	NAME		22	10.00											

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