

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC INVESTIGATION INTO THE	)	CASE NO.
FINANCIAL AND OPERATING CAPACITY OF	)	2021-00340
RATTLESNAKE RIDGE WATER DISTRICT	)	

ORDER

The Commission, on its own motion, establishes this proceeding to investigate Rattlesnake Ridge Water District (Rattlesnake Ridge District); its commissioners, Billy Gilbert, Jason Carroll, George Wells, Mike Copley, Randy Steagall, Steve Ison; and its manager, Willis Gilbert, to examine the financial and operational condition of Rattlesnake Ridge District. The willful failure to comply may present prima facie evidence of incompetency, neglect of duty, gross immorality, or nonfeasance, misfeasance, or malfeasance in office sufficient to make Rattlesnake Ridge District's commissioners and manager subject to the penalties of KRS 278.990. The Commission finds that a public hearing should be held on the issues set forth in this Order.

LEGAL STANDARD

Under KRS 278.250 and KRS 278.260, the Commission is authorized to investigate and examine the condition of any utility subject to its jurisdiction, including any practice or act relating to the utility service. Under KRS 278.280, if the Commission finds that any practice or act is unjust, unreasonable, unsafe, improper, inadequate, or insufficient, then the Commission has the authority to determine the just, reasonable, safe, proper, adequate, or sufficient practice or method to be observed. Upon a finding

that Rattlesnake Ridge District, its commissioners or manager violated any provision of KRS Chapter 278, Commission regulations, or a Commission Order, KRS 278.990 authorizes the Commission to assess civil penalties not to exceed \$2,500 for each offense against a utility and against any officer, agent, or employee of a utility who willfully violates any provisions of KRS Chapter 278, Commission regulations, or Orders.

### DISCUSSION

Rattlesnake Ridge District was a party to Case No. 2019-00041, an investigation into the water loss, and financial and operational condition of certain water utilities.<sup>1</sup> In the Commission's November 22, 2019 Order in that case, the Commission ordered each water utility that was a party to the proceeding to develop and file with the Commission within six months of the Order new policies and procedures to address water loss and business practices, including but not limited to, a water loss reduction plan, a leak detection plan, and improved employee policies and procedures.<sup>2</sup> In addition, the Commission specifically ordered Rattlesnake Ridge District to file, within six months of the Order, the following:

1. A new tariff sheet that revises its leak adjustment policy;
2. Its 2018 audit and annual report;
3. The results of the tests of all of its meters that are ten years or older;
4. A meter testing schedule;
5. Documentation of fire department water usage;

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<sup>1</sup> Case No. 2019-00041, *Electronic Investigation into Excessive Water Loss by Kentucky's Jurisdictional Water Utilities*, (Ky. PSC July 30, 2021).

<sup>2</sup> Case No. 2019-00041 *Electronic Investigation into Excessive Water Loss by Kentucky's Jurisdictional Water Utilities* (Ky. PSC Nov. 22, 2019) at 9 (November 22, 2019 Order), ordering paragraph 2.

6. A standard written procedure to ensure that line break repairs cause during excavation are charged to the appropriate entity;
7. A written policies and procedures manual;
8. A written safety training schedule;
9. A new tariff sheet that sets forth a written policy regarding theft of water service; and
10. The results of a comprehensive water audit.

Subsequently, the Commission issued another Order in Case No. 2019-00041 that extended the deadline to file the required documents to September 22, 2020, but also required each party to update the Commission by May 22, 2020, on the status of the documents. Rattlesnake Ridge District did not meet the May 22, 2020 deadline; however, on June 26, 2020, Rattlesnake Ridge District filed into the post-case record information in compliance with the November 22, 2019 Order.

As noted in the July 30, 2021 Order in Case No. 2019-00041, the Commission has not received any response or correspondence from Rattlesnake Ridge District beyond the filing on June 26, 2020. The Commission acknowledges Rattlesnake Ridge District's efforts to comply with the Commission's November 22, 2019 Order; however, there is no evidence that those policies have been implemented. The Commission has concerns about Rattlesnake Ridge District's sustained water loss and financial condition.

Additionally, Rattlesnake Ridge District filed a refinancing case, Case No. 2020-00086 in which there were delays in finalizing the financing; Rattlesnake Ridge District filed the final agreement into the record the day before the one-year filing deadline.<sup>3</sup>

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<sup>3</sup> Case No. 2020-00086, *Electronic Application of the Rattlesnake Ridge Water District to Issue Securities in the Approximate Principal Amount of \$3,420,000 for the Purpose of Refunding Certain*

Commission Staff also learned that the Phase 12 project (WX21043047) was supposed to be bid in 2021 to replace 4,000 meters, 700 service lines, and add 14 zone meters. The Commission would like to know the progress of this project as it seems to have been submitted to comply with the Commission's November 22, 2019 Order to provide a comprehensive water audit.<sup>4</sup>

The most recent Commission inspection performed August 17, 2021, attached as Appendix A, noted two deficiencies. Rattlesnake Ridge District was marked as failing to operate its facilities to provide adequate and safe service to its customers as required in 807 KAR 5:066, Section 7, due to water loss exceeding 15 percent. The utility listed 63.30 percent water loss in its 2020 Annual Report.<sup>5</sup> This was deficient again as noted previously in the Commission inspection on March 20, 2019, which is attached as Appendix B. The 2021 monthly water loss reports to the Division of Inspections indicate water loss continues to be a problem for Rattlesnake Ridge District with a range over the past few years from 50 to 69 percent. The monthly water loss reports were not submitted monthly from the utility for 2021. The reports for January through September were submitted together when an update was requested in October 2021 by Commission Staff and are attached as Appendix C.

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*Outstanding Obligations of the District Pursuant to the Provisions of KRS 278.300 and 807 KAR 5:001 (Ky. PSC July 13, 2020).*

<sup>4</sup> Case No. 2019-00041, *Electronic Investigation into Excessive Water Loss by Kentucky's Jurisdictional Water Utilities* (Ky. PSC July 30, 2021) filed in Post Case Files June 26, 2020.

<sup>5</sup> *Annual Report of Rattlesnake Ridge Water District to the Public Service Commission for the Year Ending December 31, 2020* at 57. Rattlesnake Ridge District requested an extension to file its Annual Report and filed it on May 28, 2021.

Additionally, in the August 17, 2021 Inspection, Commission Staff noted that Rattlesnake Ridge District has approximately 3,500 residential customer meters with one inch or smaller meters that have been in service for ten years without being tested as required in 807 KAR 5:066, Section 16(1). The Commission's July 30, 2021 Order in Case No. 2019-00041 found that Rattlesnake Ridge District substantially complied with the November 22, 2019 Order, but should also meet with Commission Staff by means of an informal conference to discuss its submissions and continued efforts to improve its financial and operational capacity. Because of the Commission's concern regarding Rattlesnake Ridge District's sustained excessive water loss and concerns about the utility's financial capacity, the Commission establishes this case to investigate Rattlesnake Ridge District and its commissioners.

#### CONCLUSION

The Commission finds that Rattlesnake Ridge District should appear and give testimony regarding the submissions in Case No. 2019-00041 and its continued efforts to improve its financial and operational capacity at a public hearing on the record.<sup>6</sup> The hearing will comply with the requirement of the Commission's July 30, 2021 Order for Rattlesnake Ridge District to meet with Commission Staff.

Pursuant to KRS 74.020(1), a water district shall be administered by a board of commissioners which shall control and manage the affairs of the district. Rattlesnake Ridge District's commissioners and manager are subject to KRS 278.990, as an employee of the utility, and if it is found that they willfully aided and abetted in violations

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<sup>6</sup> Case No. 2019-00041, *Electronic Investigation into Excessive Water Loss by Kentucky's Jurisdictional Water Utilities* (Ky. PSC July 30, 2021).

or Commission Orders, statutes, or regulations, they may be subject to penalties pursuant to KRS 278.990 or removal pursuant to KRS 74.025 for incompetency, neglect of duty, gross immorality, or nonfeasance, misfeasance, or malfeasance.

IT IS THEREFORE ORDERED that:

1. Rattlesnake Ridge District shall submit to the Commission a written response to provide an update on the utility's financial status, operations, and progress to combat water loss and to implement the proposed plans submitted in response to the Commission's November 22, 2019 Order within 20 days of the date of entry of this Order.

2. Counsel shall enter an appearance or appearances within 20 days of the date of entry of this Order.

3. The Commission directs Rattlesnake Ridge District to the Commission's July 22, 2021 Order in Case No. 2020-00085<sup>7</sup> regarding filings with the Commission. Electronic documents shall be in portable document format (PDF), shall be searchable, and shall be appropriately bookmarked.

4. Each response shall include the name of the witness responsible for responding to the questions related to the information provided. Each response shall be answered under oath or, for representatives of a public or private corporation or a partnership or association or a governmental agency, be accompanied by a signed certification of the preparer or the person supervising the preparation of the response on behalf of the entity that the response is true and accurate to the best of that person's knowledge, information, and belief formed after a reasonable inquiry.

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<sup>7</sup> Case No. 2020-00085, *Electronic Emergency Docket Related to the Novel Coronavirus COVID-19* (Ky. PSC July 22, 2021), Order (in which the Commission ordered that for case filings made on and after March 16, 2020, filers are NOT required to file the original physical copies of the filings required by 807 KAR 5:001, Section 8).

5. A party filing a paper containing personal information shall, in accordance with 807 KAR 5:001, Section 4(10), encrypt or redact the paper so that personal information cannot be read.

6. Rattlesnake Ridge District, Billy Gilbert, Jason Carroll, George Wells, Mike Copley, Randy Steagall, Steve Ison, and its manager, Willis Gilbert, shall appear and give testimony on January 12, 2022, at 9 a.m. Eastern Standard Time, in the Richard Raff Hearing Room of the Commission's offices at 211 Sower Boulevard in Frankfort, Kentucky, regarding the submissions in Case No. 2019-00041 and its continued efforts to improve its financial and operational capacity.

7. Rattlesnake Ridge District shall file with the Commission, no later than December 29, 2022, 15 days prior to the hearing, a list of witnesses and exhibits to be presented at the January 12, 2022 hearing. Rattlesnake Ridge District shall provide copies of any exhibit it intends to introduce into evidence at the hearing via electronic copy to Commission Staff.

8. Rattlesnake Ridge District shall give notice of the hearing in compliance with 807 KAR 5:001, Section 9(2)(b). In addition, the notice of hearing shall include the following statement: "This hearing will be streamed live and may be viewed on the PSC website, [psc.ky.gov](http://psc.ky.gov)"; and "Public comments may be made at the beginning of the hearing. Those wishing to make oral public comments may do so by following the instructions listed on the PSC website, [psc.ky.gov](http://psc.ky.gov)." At the time the notice is mailed, or publication is requested, Rattlesnake Ridge District shall forward a duplicate of the notice and request to the Commission.

9. Pursuant to KRS 278.360 and 807 KAR 5:001, Section 9(9), a digital video recording shall be made of the hearing.

10. The records of Commission Case No. 2019-00041 and Case No. 2020-00086 are made a part of the record by reference only.

11. Judge Executive, Mike Malone, shall be served with a copy of this Order.

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By the Commission



ATTEST:

  
Executive Director

APPENDIX A

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE  
COMMISSION IN CASE NO. 2021-00340 DATED OCT 18 2021

FIVE PAGES TO FOLLOW



Andy Beshear  
Governor

Rebecca W. Goodman  
Secretary  
Energy and Environment Cabinet

Commonwealth of Kentucky  
**Public Service Commission**  
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P.O. Box 615  
Frankfort, Kentucky 40602-0615  
Telephone: (502) 564-3940  
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Kent A. Chandler  
Chairman

Amy D. Cabbage  
Vice Chairman

Talina R. Mathews  
Commissioner

August 17, 2021

W.C Gilbert  
Rattlesnake Ridge Water District  
P.O. Box 475  
Grayson, KY 41143

Re: Periodic Water Inspection (Covid-19)  
Rattlesnake Ridge Water District Water System  
Carter County, KY

Dear W.C. Gilbert:

Public Service Commission staff performed a periodic inspection of the Rattlesnake Ridge Water District water system on August 17, 2021, reviewing utility operations and management practices pursuant to Commission regulations. The report of this inspection is enclosed with this letter.

Based on the inspector's observations, two deficiencies were identified.

1. Rattlesnake Ridge Water District is failing to operate its facilities so as to provide adequate and safe service to its customers as required in 807 KAR 5:066, Section 7, due to water loss exceeding 15 percent. (2020-63.30%)
2. Rattlesnake Ridge Water District has customers with one inch or smaller meters that have been in service for 10 years without being tested as required in 807 KAR 5:066, Section 16(1). (approx. 3,500 residential meters)

According to Rattlesnake Ridge Water District's annual report for 2020, unaccounted-for water loss equaled approximately 63.30 percent of the District's total water produced/purchased. The District produced/purchased \$602,443 of water that cannot be recovered for rate making purposes.

For the two deficiencies listed above, an explanation of why these deficiencies occurred and how these deficiencies will be remedied and prevented in the future needs to be provided. A letter addressing the organization's actions regarding the deficiencies shall be submitted by September 24, 2021.

Periodic Water Inspection  
Rattlesnake Ridge Water System  
August 17, 2021  
Page 2 of 2

Please review the enclosed inspection report in its entirety as you will find further information noted in regard to the inspection. If you have any questions regarding this inspection, feel free to contact Erin Donges at 502-782-2627 or via email at [erin.donges@ky.gov](mailto:erin.donges@ky.gov).

Sincerely,

Erin Donges  
Utility Regulatory & Safety Investigator  
Public Service Commission

Enclosure(s)

Copy: Billy Gilbert, Chairperson  
Mike Malone, County Judge/Executive  
Morris Shears, County Magistrate  
Brandon Burton, County Magistrate  
Chris Huddle, County Magistrate  
Jack Steele, County Magistrate  
Donnie Oppenheimer, County Magistrate

## **KENTUCKY PUBLIC SERVICE COMMISSION YEARLY COMPLIANCE INSPECTION**

**UTILITY:** RATTLESNAKE RIDGE WATER DISTRICT

**UTILITY LOCATION:** 3563 STATE HWY 1661 GRAYSON, KY 41143

**INVESTIGATOR:** ERIN DONGES/ROY GRAY

**DATE OF INSPECTION:** AUGUST 17, 2021

**DATE OF LAST INSPECTION:** MARCH 22, 2019

**DEFICIENCIES NOTED DURING LAST INSPECTION:**

1. RATTLESNAKE RIDGE WATER DISTRICT IS FAILING TO OPERATE ITS FACILITIES SO AS TO PROVIDE ADEQUATE AND SAFE SERVICE TO ITS CUSTOMERS AS REQUIRED IN 807 KAR 5:066, SECTION 7, DUE TO WATER LOSS EXCEEDING 15 PERCENT. (2017- 62.97%)

**UTILITY CONTACT:** W.C. GILBERT (MANAGER)

**EMAIL ADDRESS:** RRWDWC@YAHOO.COM

**PHONE NUMBER:** (606)474-7570

**CHAIRMAN:** BILLY GILBERT

**SOURCE WATER:** GRAYSON LAKE

**DISTRIBUTION SOURCE WATER:** UTILITIES DISTRIBUTION SYSTEM IS PROVIDED WITH WATER FROM ITS WATER TREATMENT PLANT AND CITY OF GRAYSON.

**AREA OF OPERATION:** CARTER, ELLIOTT, LAWRENCE, LEWIS, MORGAN

**AVERAGE AMOUNT PURCHASED:** ACCORDING TO THE 2020 ANNUAL REPORT THE UTILITY PRODUCED 1,667,567 GALLONS OF WATER PER DAY AND PURCHASED 3,901 GALLONS PER DAY FROM THE CITY OF GRAYSON.

**CUSTOMERS:** 4,089

## **(COVID-19) INSPECTIONS CHECK LIST**

1. **CUSTOMER COMPLAINTS (5)**
2. **METER TEST BENCH CERTIFICATION (IF APPLICABLE)**
3. **MASTER METER TESTING**
4. **SAFETY MEETINGS AND CPR CERTIFICATION**
5. **INSPECTION RECORDS (TANKS, PUMP STATIONS, WATER TREATMENT PLANT, VEHICLES, CONSTRUCTION EQUIPMENT, VALVES, METERS, WELLS)**
6. **PRESSURE CHARTS**
7. **LEAK LOG**
8. **MONTHLY WATER LOSS REPORTS (2020) (WATER LOSS 2020- 63.30%)**
9. **FLUSHING RECORDS(2020)**
10. **FIRE DEPARTMENT USAGE REPORTS (2020)**
11. **LIST OF WATER STORAGE TANKS, PUMP STATIONS, WELLS, MASTER METERS**
12. **WATER PURCHASE/WHOLESALE CONTRACTS**
13. **CURRENT CUSTOMER AND WHOLESALE RATE SHEET**
14. **LIST OF COMMISSIONERS (WATER BOARD), BACKGROUND, TERM EXPIRATION, HOW MANY YEARS ON BOARD**
15. **LAST CASE FILED WITH THE COMMISSION**
16. **LAST RATE CASE FILED WITH THE COMMISSION (2018-00371)**
17. **QUARTERLY METER REPORTS (2020) (AROUND 3500 METERS OUT OF COMPLIANCE WITH METER TESTING)**
18. **A LIST OF POTENTIAL CASES IN THE NEXT YEAR (RATTLESNAKE RIDGE IS IN THE PROCESS OF A PHASE 12 PROJECT TO INSTALL MASTER ZONE METERS AND REPLACE ALL OF THEIR CUSTOMER METERS WITH THE HOPE OF CONTROLLING WATER LOSS)**
19. **IF I HAVE CONTACTED YOU ABOUT SITE VISIT ADDRESSES THEN DISREGARD. IF NOT PLEASE LIST PHYSICAL ADDRESSES TO PUMP STATIONS AND WATER STORAGE TANKS**

### **ALL DOCUMENTS WERE REVIEWED AND TWO DEFICIENCIES WERE NOTED:**

1. **UTILITY IS FAILING TO OPERATE ITS FACILITIES SO AS TO PROVIDE ADEQUATE AND SAFE SERVICE TO ITS CUSTOMERS AS REQUIRED IN 807 KAR 5:066, SECTION 7, DUE TO WATER LOSS EXCEEDING 15 PERCENT. (2020-63.30%)**
2. **UTILITY HAS CUSTOMERS WITH ONE INCH OR SMALLER METERS THAT HAVE BEEN IN SERVICE FOR 10 YEARS WITHOUT BEING TESTED AS REQUIRED IN 807 KAR 5:066, SECTION 16(1) (3,500 RESIDENTIAL METERS)**

**REPORT BY:**

**ERIN DONGES**

**UTILITY REGULATORY AND SAFETY INVESTIGATOR**

**KENTUCKY PUBLIC SERVICE COMMISSION**

**NOTE: RATTLESNAKE RIDGE IS PART OF CASE NO. 2019-00041**

APPENDIX B

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE  
COMMISSION IN CASE NO. 2021-00340 DATED OCT 18 2021

NINETEEN PAGES TO FOLLOW

# Kentucky Public Service Commission

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## Periodic Compliance Inspection

Utility: Rattlesnake Ridge Water District

Utility location: 3563 State Hwy. 1661  
Grayson, KY 41143

Investigator: Erin Donges

Date(s) of inspection: March 20, 2019

Date(s) of last inspection: May 9, 2018

Deficiencies noted during last inspection:

1. Rattlesnake Ridge Water District is failing to operate its facilities so as to provide adequate and safe service to its customers as required by 807 KAR 5:066, Section 7, due to water loss exceeding 15 percent.
2. Utility did not have written inspection records as required by 807 KAR 5:006, Section 26(6)(a), (6)(b), and (6)(c).
3. Rattlesnake Ridge Water District's Little Fork 4" master meter is due to periodic testing per 807 KAR 5:066, Section 16(1).

Have deficiencies been corrected since last inspection:      Yes       No       N/A

Primary utility representative(s) involved with inspection:

Name: W.C. Gilbert

Title: Manager

Name: David Gifford

Title: Asst. Manager

**Who with the utility should receive the inspection report cover letter from the commission?**

Name: Bill Gilbert

Title: Chair

Mailing address: P.O. Box 475 Grayson, KY 41143

Email address: rrwdwc@yahoo.com

Phone number: (606) 474-7570

# Kentucky Public Service Commission

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## Periodic Compliance Inspection

### General Questions

#### Treatment Facility

Source Water: Grayson Lake

Plant Capacity: 2,600,000 gallons per day.

Avg. Amount Produced: According to the 2017 annual report the utility produced an average of 1,525,849 gallons per day.

#### Distribution Facility

Source Water: Rattlesnake Ridge Water District water treatment plant and City of Grayson

Area of Operation: Carter, Elliott, Lawrence, and Morgan Counties

Miles of Water Line: Approximately 900 miles of distribution line

Avg. Amount Purchased: According to the 2017 annual report the utility purchased 8,731 gallons per day from the City of Grayson.

Water sold at wholesale rate to other water systems: According to the 2017 annual report Rattlesnake Ridge Water District did not wholesale water to anyone.

#### Utility Information

Number of Employees: 13 fulltime and 1 part-time

Number of Office Employees: 2

Number of Certified Water Treatment Employees: 4 fulltime and 1 part-time

Number of Certified Distribution Employees: 5

Number of Certified Meter Testers: N/A

Utility Chairperson/President: Bill Gilbert

#### Metering System:

Number of Customers: 4,015

Meter Reading:

AMR

AMI

Other

Manual

# Kentucky Public Service Commission

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## Periodic Compliance Inspection

### Review of Facilities:

1.

Tank: Route 7 #1 Water Storage Tank

Capacity: 100,000

Condition: Visible Rust

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2.

Tank: Route 7 #2 Water Storage Tank

Capacity: 500,000

Condition: Discoloration and Algae growth

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3.

Tank: 504 West Water Storage Tank

Capacity: 60,000

Condition: Discoloration

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4.

Tank: 504 East Water Storage Tank

Capacity: 75,000

Condition: No Visual Issues

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5.

Tank: Diamond Ridge Water Storage Tank

Capacity: 54,000

Condition: Paint chipping and rust

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6.

Pump Station: 504 West

Condition: No Visual Issues

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7.

Pump Station: Diamond Ridge

Condition: Visible Rust

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# Kentucky Public Service Commission

## Periodic Compliance Inspection

### Deficiency

Rattlesnake Ridge Water District is failing to operate its facilities so as to provide adequate and safe service to its customers as required by 807 KAR 5:066, Section 7, due to water loss exceeding 15 percent. (2017-62.97%)

### Additional Inspector Comments

RRWD is in the process of replacing two water storage tanks, rehabbing a water storage tank, new office, installing new distribution lines to pick up additional customers, rehabbing a pump station.

The Utility believes the water loss issue is in the billing.

Comment: During this periodic regulatory compliance inspection, it was not possible to review/discuss every record relating to all Commission requirements. Therefore, in some instances the results contained in this report are indicative of those items inspected and reviewed on a sample basis.

Report by:

Date: March 29, 2019

Erin Donges

Utility Regulatory & Safety Investigator

Kentucky Public Service Commission

Attachment(s): A.) Water Storage Tanks, Pump Stations, Master Meters, Water Loss

B.) Pictures

## Attachment A

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**RATTLESNAKE RIDGE WATER DISTRICT**

<b><u>WATER STORAGE TANKS</u></b>	<b><u>CAPACITY</u></b>	<b><u>LAST INT</u></b>	<b><u>LAST EXT</u></b>
		<b><u>INSP</u></b>	<b><u>INSP</u></b>
<b><u>MAYHEW FLATS</u></b>	262,000	2013	2018
<b><u>RATTLESNAKE RIDGE</u></b>	500,000	2013	2018
<b><u>MCCONNELL BRANCH</u></b>	100,000	2015	2018
<b><u>ROUTE 7 #1</u></b>	100,000	2019	2018
<b><u>ROUTE 7 #2</u></b>	500,000	2015	2018
<b><u>ISONVILLE</u></b>	100,000	2015	2018
<b><u>DIAMOND RIDGE</u></b>	54,000	2019	2018
<b><u>ROUTE 504 EAST</u></b>	56,000	2019	2018
<b><u>ROUTE 504 WEST</u></b>	50,000	2019	2018
<b><u>WALNUT GROVE</u></b>	100,000	2017	2018
<b><u>OAKLAND RIDGE</u></b>	102,000	2017	2018
<b><u>GREGORYVILLE</u></b>	60,000	2015	2018
<b><u>GREGORYVILLE</u></b>	60,000	2015	2018
<b><u>PLANT TANK</u></b>	600,000	2013	2018
<b><u>TOTAL STORAGE CAPACITY</u></b>	2,644,000		

<b><u>PUMP STATIONS</u></b>	<b><u>PUMPS/GPM</u></b>	<b><u>LAST INSP</u></b>
<b><u>ROUTE 486</u></b>	2(300)	2018
<b><u>DIAMOND RIDGE</u></b>	2(45)	2018
<b><u>US 60</u></b>	2(300)	2018
<b><u>SMOKEY CREEK</u></b>	2(350)	2018
<b><u>CLIFTY CREEK</u></b>	2(300)	2018
<b><u>RATTLESNAKE RIDGE</u></b>	2(150)	2018
<b><u>ROUTE 986</u></b>	2(100)	2018
<b><u>ROUTE 504</u></b>	2(100)	2018

<b><u>MASTER METERS</u></b>	<b><u>LAST TESTED</u></b>
<b><u>LITTLE FORK 4"</u></b>	2018
<b><u>STAN BRANCH 4"</u></b>	2018
<b><u>BIG SANDY WATER DISTRICT 3"</u></b>	2018
<b><u>VANCEBURG 2"</u></b>	2015

<b><u>WATER LOSS PERCENTAGE</u></b>	<b><u>2017</u></b>	<b><u>2016</u></b>	<b><u>2015</u></b>	<b><u>2014</u></b>	<b><u>2013</u></b>
	62.97	56.31	50.5	46.2	38.9

## Attachment B

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HAPPY B. Day  
I LOVE YOU





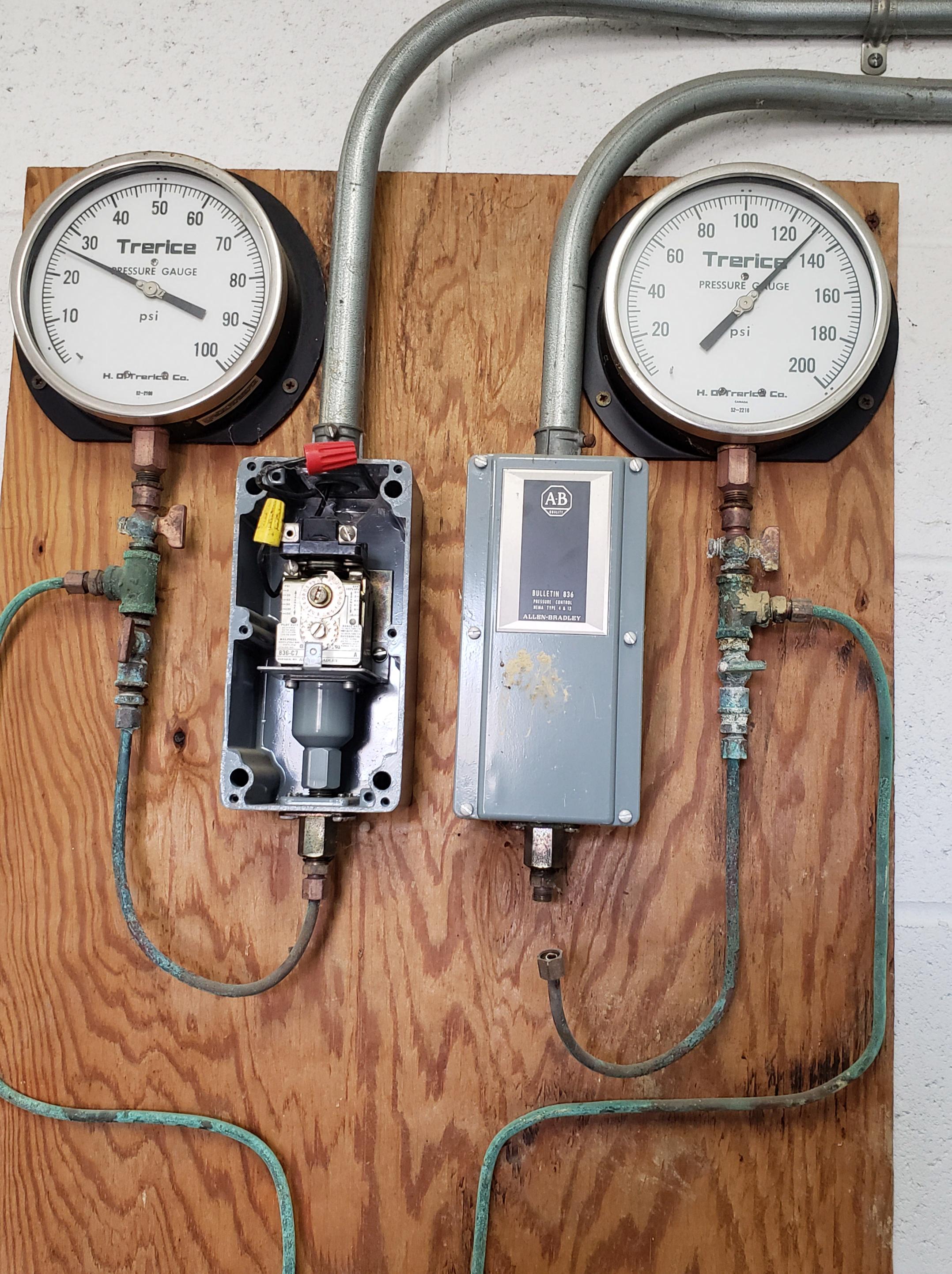
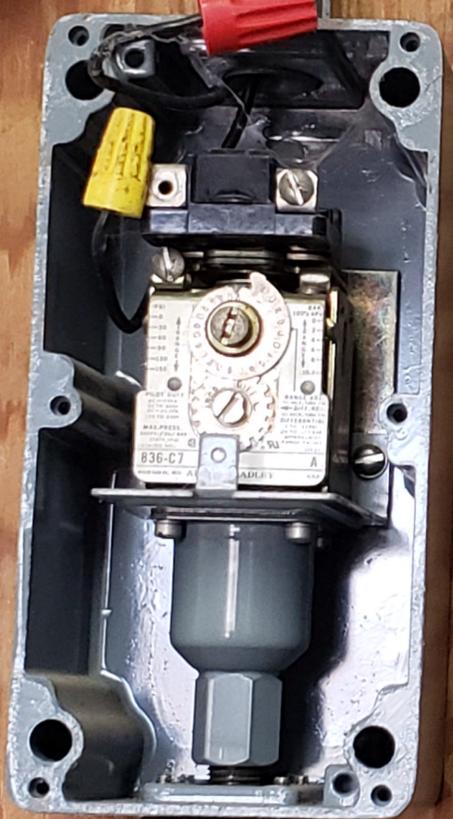
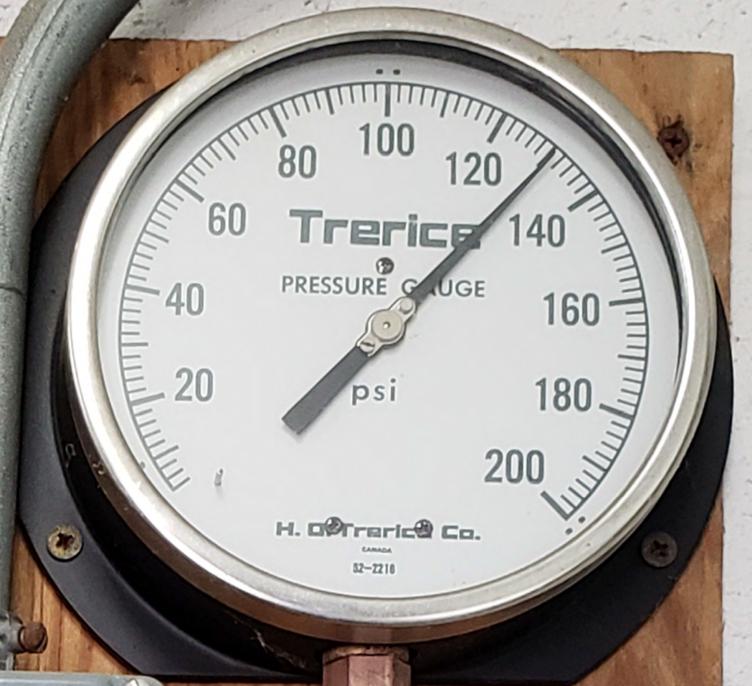
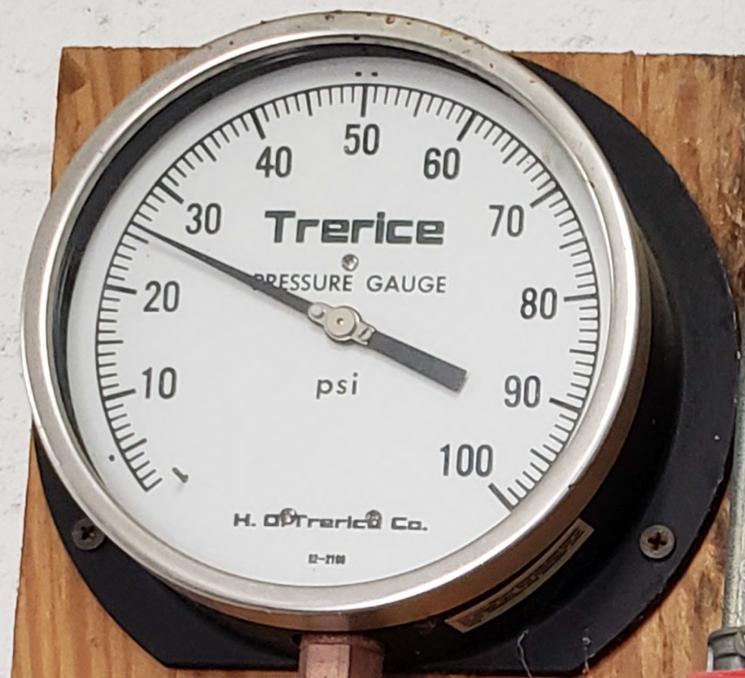




CAUTION

CAUTION

AWWA  
KENNEDY  
4





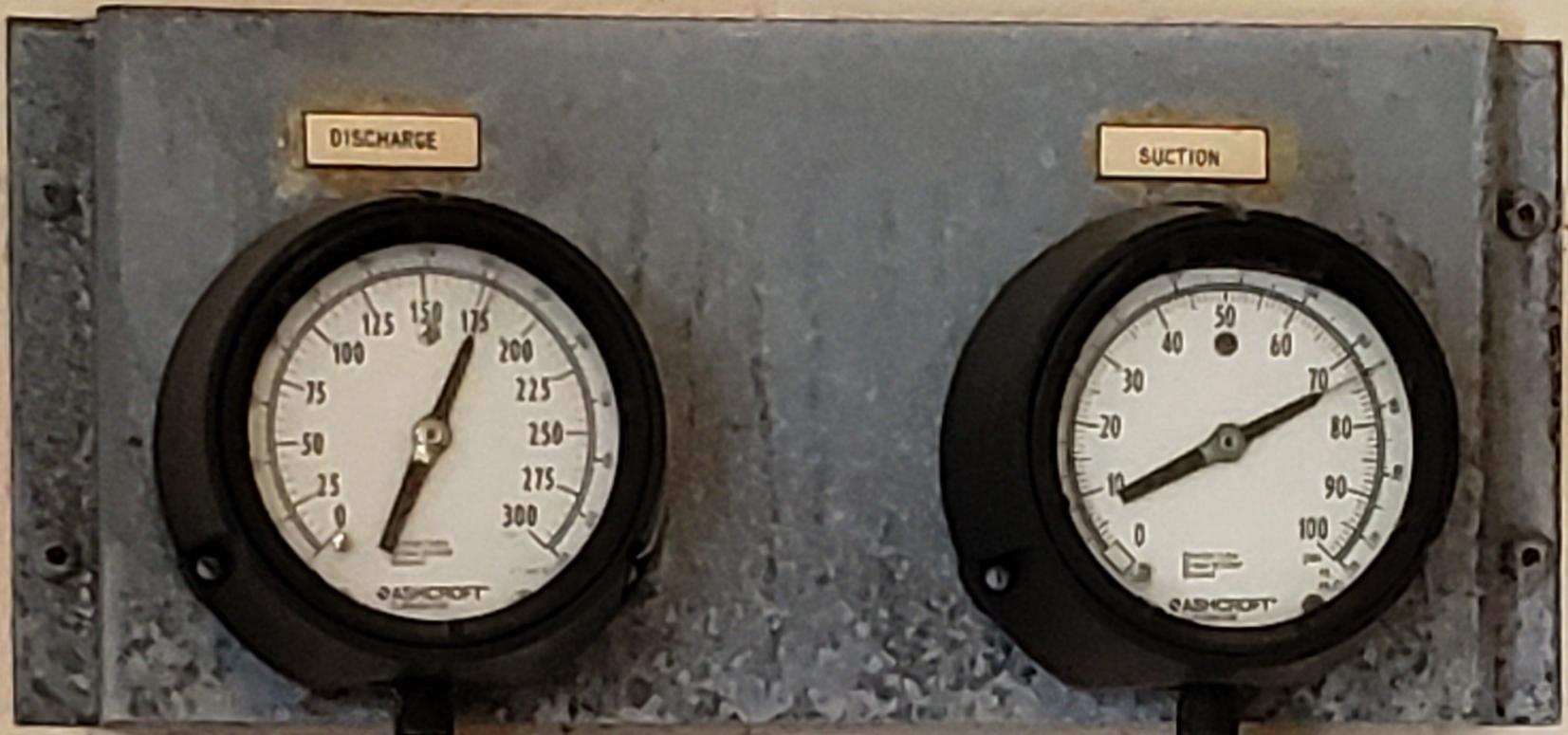
Control panel with a digital display, keypad, and various switches and buttons. A red emergency stop button is visible. A "DANGER" warning label is present on the panel.

Terminal block with several electrical connections.

Industrial piping system with a large valve assembly supported by two wooden posts. The pipes and valve are heavily rusted. A vertical pipe runs along the wall to the right of the valve.

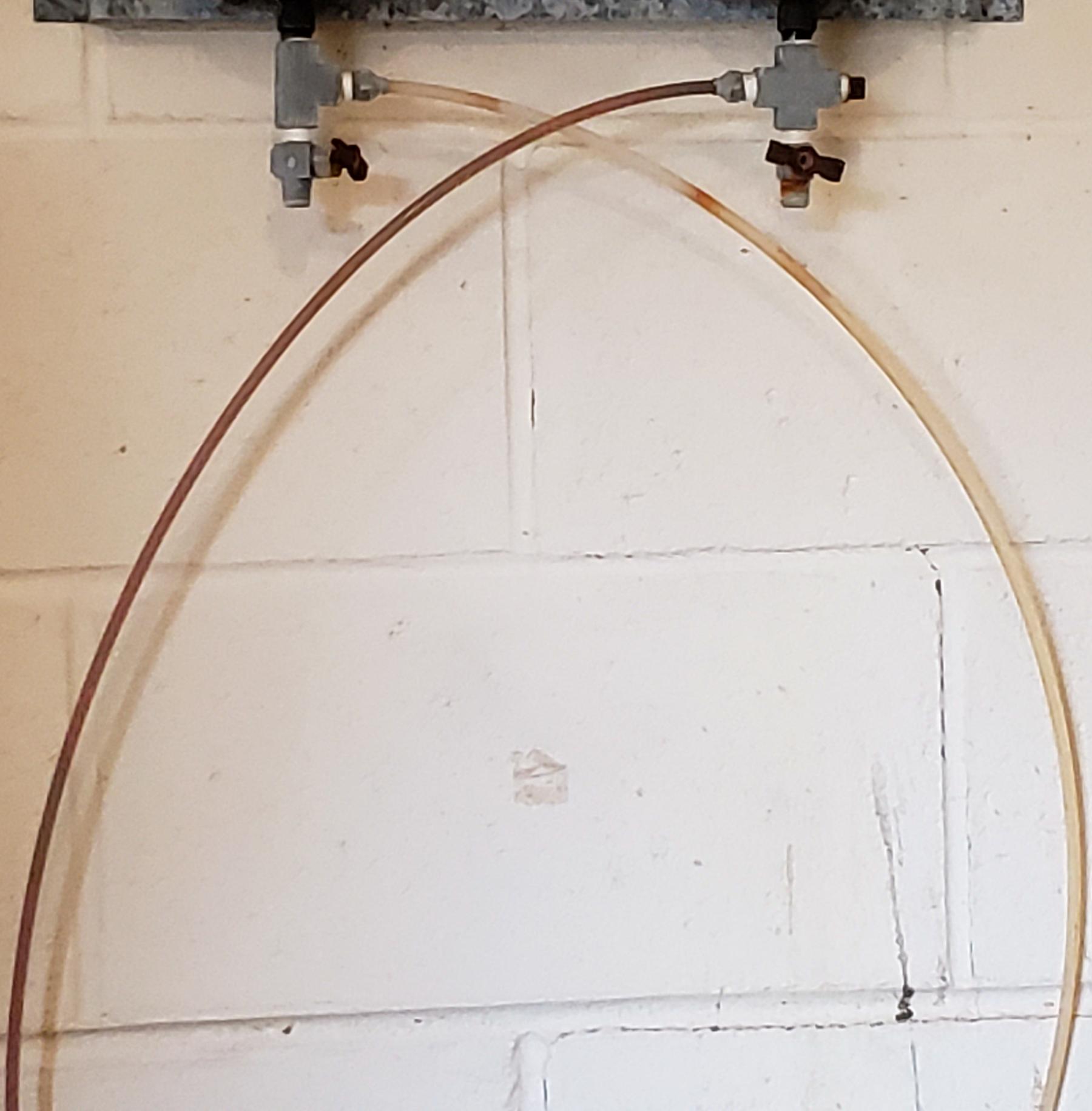
Rectangular metal vent or access panel with horizontal slats.





DISCHARGE

SUCTION



APPENDIX C

APPENDIX TO AN ORDER OF THE KENTUCKY PUBLIC SERVICE  
COMMISSION IN CASE NO. 2021-00340 DATED OCT 18 2021

EIGHT PAGES TO FOLLOW

## Monthly Water Use Report

Water Utility: Rattlesnake Ridge Water District PWSID: Ky0220555

For the Month of: January Year: 2021

1 PRODUCTION COST PER THOUSAND (insert cost)    
 2 PURCHASE COST PER THOUSAND (insert cost)  

### GALLONS

<b>WATER PRODUCED or PURCHASED</b>			
3	Water Produced	<span style="border: 1px solid black; padding: 2px;">51,652,700</span>	100.0%
4	Water Purchased		0.0%
5	<b>TOTAL PRODUCED AND PURCHASED</b>	51,652,700	
6	<b>TOTAL COST #VALUE!</b>		

<b>WATER SOLD</b>			
7	Residential	<span style="border: 1px solid black; padding: 2px;">12,800,600</span>	
8	Commercial	<span style="border: 1px solid black; padding: 2px;">845,620</span>	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain) _____		
13	<b>TOTAL WATER SOLD</b>	13,646,220	26.4%
14	<b>TOTAL WATER NOT SOLD</b>	38,006,480	<b>73.6%</b>

<b>BREAKDOWN OF WATER USAGE</b>			
15	Water Treatment Plant	<span style="border: 1px solid black; padding: 2px;">2,500,000</span>	
16	Wastewater Treatment Plant		
17	System Flushing	<span style="border: 1px solid black; padding: 2px;">376,703</span>	#VALUE!
18	Fire Department Usage	<span style="border: 1px solid black; padding: 2px;">40,937</span>	#VALUE!
19	DBP Flushing _____ DBP Maintenance	<span style="border: 1px solid black; padding: 2px;">0</span>	
20	<b>TOTAL USAGE</b>	2,917,640	
21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>		<b>67.9%</b>

<b>BREAKDOWN OF WATER LOST</b>			
22	Tank Overflows (other than for DBP maintenance)	<span style="border: 1px solid black; padding: 2px;"> </span>	
23	Excavation Breaks	<span style="border: 1px solid black; padding: 2px;">0</span>	
24	Repaired Line Breaks	<span style="border: 1px solid black; padding: 2px;">8,761,365</span>	#VALUE!
25	Unknown Loss	26,327,476	51.0%
26	<b>TOTAL WATER NOT SOLD OR USED</b>	<b>35,088,840</b>	
27	<b>COST OF WATER NOT SOLD OR USED</b>		<b>#VALUE!</b>

<b>"UNKNOWN LOSS" FLOW RATE AND COST:</b>			
28	"Unknown Loss"	26,327,476	
29	% "Unknown Loss"	51.0%	
30	(insert days of operation during month) Number of Days in Period		
31	"Unknown Loss" per Day (Gallons per Day)		
32	"Unknown Loss" per Minute (GPM)		
33	"Unknown Loss" Cost for Month		#VALUE!

## Monthly Water Use Report

Water Utility: Rattlesnake Ridge Water District PWSID: Ky0220555

For the Month of: Feb and March Year: 2021

1 PRODUCTION COST PER THOUSAND (insert cost)    
 2 PURCHASE COST PER THOUSAND (insert cost)  

### GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	<span style="border: 1px solid black; padding: 2px;">110,247,430</span>	100.0%
4	Water Purchased		0.0%
5	<b>TOTAL PRODUCED AND PURCHASED</b>	110,247,430	
6	<b>TOTAL COST #VALUE!</b>		

WATER SOLD			
7	Residential	<span style="border: 1px solid black; padding: 2px;">25,856,340</span>	
8	Commercial	1,999,120	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain) _____		
13	<b>TOTAL WATER SOLD</b>	27,855,460	25.3%
14	<b>TOTAL WATER NOT SOLD</b>	82,391,970	<b>74.7%</b>

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	<span style="border: 1px solid black; padding: 2px;">5,248,000</span>	
16	Wastewater Treatment Plant		
17	System Flushing	2,485,521	#VALUE!
18	Fire Department Usage	81,210	#VALUE!
19	DBP Flushing _____ DBP Maintenance	0	
20	<b>TOTAL USAGE</b>	7,814,731	
21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>		<b>67.6%</b>

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)	<span style="border: 1px solid black; padding: 2px;"> </span>	
23	Excavation Breaks	0	
24	Repaired Line Breaks	9,836,224	#VALUE!
25	Unknown Loss	64,741,015	58.7%
26	<b>TOTAL WATER NOT SOLD OR USED</b>	74,577,239	
27	<b>COST OF WATER NOT SOLD OR USED</b>		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	64,741,015	
29	% "Unknown Loss"	58.7%	
30	(insert days of operation during month) Number of Days in Period		
31	"Unknown Loss" per Day (Gallons per Day)		
32	"Unknown Loss" per Minute (GPM)		
33	"Unknown Loss" Cost for Month		#VALUE!

## Monthly Water Use Report

Water Utility: Rattlesnake Ridge Water District PWSID: Ky0220555

For the Month of: April Year: 2021

1 PRODUCTION COST PER THOUSAND (insert cost)   
 2 PURCHASE COST PER THOUSAND (insert cost)

### GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	<span style="border: 1px solid black; padding: 2px;">47,590,711</span>	100.0%
4	Water Purchased		0.0%
5	<b>TOTAL PRODUCED AND PURCHASED</b>	47,590,711	
6	<b>TOTAL COST #VALUE!</b>		

WATER SOLD			
7	Residential	<span style="border: 1px solid black; padding: 2px;">12,040,700</span>	
8	Commercial	<span style="border: 1px solid black; padding: 2px;">1,424,280</span>	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	<b>TOTAL WATER SOLD</b>	13,464,980	28.3%
14	<b>TOTAL WATER NOT SOLD</b>	34,125,731	<b>71.7%</b>

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	<span style="border: 1px solid black; padding: 2px;">2,500,000</span>	
16	Wastewater Treatment Plant		
17	System Flushing	<span style="border: 1px solid black; padding: 2px;">2,733,766</span>	#VALUE!
18	Fire Department Usage	<span style="border: 1px solid black; padding: 2px;">40,394</span>	#VALUE!
19	DBP Flushing <span style="margin-left: 20px;">DBP Maintenance</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	
20	<b>TOTAL USAGE</b>	5,274,160	
21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>		<b>60.6%</b>

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)	<span style="border: 1px solid black; padding: 2px;">0</span>	
23	Excavation Breaks		
24	Repaired Line Breaks	<span style="border: 1px solid black; padding: 2px;">6,256,214</span>	#VALUE!
25	Unknown Loss	22,595,357	47.5%
26	<b>TOTAL WATER NOT SOLD OR USED</b>	<b>28,851,571</b>	
27	<b>COST OF WATER NOT SOLD OR USED</b>		<b>#VALUE!</b>

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	22,595,357	
29	% "Unknown Loss"	47.5%	
30	Number of Days in Period	<span style="border: 1px solid black; padding: 2px;">30</span>	
31	"Unknown Loss" per Day (Gallons per Day)	753,179	
32	"Unknown Loss" per Minute (GPM)	523.04	
33	"Unknown Loss" Cost for Month		#VALUE!

## Monthly Water Use Report

Water Utility: Rattlesnake Ridge Water District PWSID: Ky0220555

For the Month of: May Year: 2021

1 PRODUCTION COST PER THOUSAND (insert cost)    
 2 PURCHASE COST PER THOUSAND (insert cost)  

**GALLONS**

WATER PRODUCED or PURCHASED			
3	Water Produced	53,707,132	100.0%
4	Water Purchased		0.0%
5	<b>TOTAL PRODUCED AND PURCHASED</b>	53,707,132	
6	<b>TOTAL COST #VALUE!</b>		

WATER SOLD			
7	Residential	12,613,980	
8	Commercial	2,157,700	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	<b>TOTAL WATER SOLD</b>	14,771,680	27.5%
14	<b>TOTAL WATER NOT SOLD</b>	38,935,452	<b>72.5%</b>

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	250,000	
16	Wastewater Treatment Plant		
17	System Flushing	1,227,325	#VALUE!
18	Fire Department Usage	0	
19	DBP Flushing <span style="margin-left: 20px;">DBP Maintenance</span>	0	
20	<b>TOTAL USAGE</b>	1,477,325	
21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>		<b>69.7%</b>

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)	0	
23	Excavation Breaks		
24	Repaired Line Breaks	1,256,200	#VALUE!
25	Unknown Loss	36,201,927	67.4%
26	<b>TOTAL WATER NOT SOLD OR USED</b>	37,458,127	
27	<b>COST OF WATER NOT SOLD OR USED</b>		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	36,201,927	
29	% "Unknown Loss"	67.4%	
30	(insert days of operation during month) Number of Days in Period		
31	"Unknown Loss" per Day (Gallons per Day)		
32	"Unknown Loss" per Minute (GPM)		
33	"Unknown Loss" Cost for Month		#VALUE!

## Monthly Water Use Report

Water Utility: Rattlesnake Ridge Water District PWSID: Ky0220555

For the Month of: June Year: 2021

1	PRODUCTION COST PER THOUSAND	<span style="border: 1px solid black; padding: 2px;">\$0.00</span>
2	PURCHASE COST PER THOUSAND	<span style="border: 1px solid black; padding: 2px;">\$0.00</span>

**GALLONS**

<b>WATER PRODUCED or PURCHASED</b>			
3	Water Produced	\$0.00	<span style="border: 1px solid black; padding: 2px;">52,312,612</span> 100.0%
4	Water Purchased	\$0.00	<span style="border: 1px solid black; padding: 2px;"></span> 0.0%
5	<b>TOTAL PRODUCED AND PURCHASED</b>		<span style="border: 1px solid black; padding: 2px;">52,312,612</span>
6	<b>TOTAL COST</b>	\$0.00	

**WATER SOLD**

7	Residential	<span style="border: 1px solid black; padding: 2px;">13,888,050</span>
8	Commercial	<span style="border: 1px solid black; padding: 2px;">2,741,109</span>
9	Industrial	<span style="border: 1px solid black; padding: 2px;"></span>
10	Bulk Loading Stations	<span style="border: 1px solid black; padding: 2px;"></span>
11	Wholesale	<span style="border: 1px solid black; padding: 2px;"></span>
12	Other Sales (explain)	<span style="border: 1px solid black; padding: 2px;"></span>

13	<b>TOTAL WATER SOLD</b>	16,629,159	31.8%
14	<b>TOTAL WATER NOT SOLD</b>	35,683,453	<b>68.2%</b>

**BREAKDOWN OF WATER USAGE**

15	Water Treatment Plant	<span style="border: 1px solid black; padding: 2px;">2,000,000</span>
16	Wastewater Treatment Plant	<span style="border: 1px solid black; padding: 2px;"></span>
17	System Flushing	<span style="border: 1px solid black; padding: 2px;">1,066,049</span> \$0.00
18	Fire Department Usage	<span style="border: 1px solid black; padding: 2px;">49,887</span> \$0.00
19	DBP Flushing <span style="float: right;">DBP Maintenance</span>	<span style="border: 1px solid black; padding: 2px;">0</span>

20	<b>TOTAL USAGE</b>	3,115,936
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21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>	<span style="border: 1px solid black; padding: 2px;"><b>62.3%</b></span>
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**BREAKDOWN OF WATER LOST**

22	Tank Overflows (other than for DBP maintenance)	<span style="border: 1px solid black; padding: 2px;">0</span>
23	Excavation Breaks	<span style="border: 1px solid black; padding: 2px;"></span>
24	Repaired Line Breaks	<span style="border: 1px solid black; padding: 2px;">8,428,858</span> \$0.00
25	Unknown Loss	<span style="border: 1px solid black; padding: 2px;">24,138,659</span> <b>46.1%</b>

26	<b>TOTAL WATER NOT SOLD OR USED</b>	<b>32,567,517</b>
27	<b>COST OF WATER NOT SOLD OR USED</b>	<b>\$0.00</b>

**"UNKNOWN LOSS" FLOW RATE AND COST:**

28	"Unknown Loss"	24,138,659
29	% "Unknown Loss"	46.1%
30	Number of Days in Period	<span style="border: 1px solid black; padding: 2px;">30</span>
31	"Unknown Loss" per Day (Gallons per Day)	804,622
32	"Unknown Loss" per Minute (GPM)	558.77
33	"Unknown Loss" Cost for Month	\$0.00

## Monthly Water Use Report

Water Utility: Rattlesnake Ridge Water District PWSID: Ky0220555

For the Month of: JULY Year: 2021

1 PRODUCTION COST PER THOUSAND (insert cost)   
 2 PURCHASE COST PER THOUSAND (insert cost)

### GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	<span style="border: 1px solid black; padding: 2px;">63,307,631</span>	100.0%
4	Water Purchased		0.0%
5	<b>TOTAL PRODUCED AND PURCHASED</b>	63,307,631	
6	<b>TOTAL COST #VALUE!</b>		

WATER SOLD			
7	Residential	<span style="border: 1px solid black; padding: 2px;">13,070,270</span>	
8	Commercial	2,798,370	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain) _____		
13	<b>TOTAL WATER SOLD</b>	15,868,640	25.1%
14	<b>TOTAL WATER NOT SOLD</b>	47,438,991	<b>74.9%</b>

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	<span style="border: 1px solid black; padding: 2px;">2,500,000</span>	
16	Wastewater Treatment Plant		
17	System Flushing	1,093,993	#VALUE!
18	Fire Department Usage	0	
19	DBP Flushing <span style="float: right;">DBP Maintenance</span>	0	
20	<b>TOTAL USAGE</b>	3,593,993	
21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>		<b>69.3%</b>

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	0	
24	Repaired Line Breaks	1,250,500	#VALUE!
25	Unknown Loss	42,594,498	67.3%
26	<b>TOTAL WATER NOT SOLD OR USED</b>	<b>43,844,998</b>	
27	<b>COST OF WATER NOT SOLD OR USED</b>		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	42,594,498	
29	% "Unknown Loss"	67.3%	
30	(insert days of operation during month) Number of Days in Period		
31	"Unknown Loss" per Day (Gallons per Day)		
32	"Unknown Loss" per Minute (GPM)		
33	"Unknown Loss" Cost for Month		#VALUE!

## Monthly Water Use Report

Water Utility: Rattlesnake Ridge Water District PWSID: Ky0220555

For the Month of: August Year: 2021

1 PRODUCTION COST PER THOUSAND (insert cost)   
 2 PURCHASE COST PER THOUSAND (insert cost)

**GALLONS**

WATER PRODUCED or PURCHASED			
3	Water Produced	<span style="border: 1px solid black; padding: 2px;">52,733,631</span>	100.0%
4	Water Purchased		0.0%
<b>TOTAL PRODUCED AND PURCHASED</b>		52,733,631	
6	<b>TOTAL COST</b>	<b>#VALUE!</b>	

WATER SOLD			
7	Residential	<span style="border: 1px solid black; padding: 2px;">12,064,280</span>	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
<b>TOTAL WATER SOLD</b>		15,680,800	29.7%
14	<b>TOTAL WATER NOT SOLD</b>	37,052,831	<b>70.3%</b>

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	<span style="border: 1px solid black; padding: 2px;">2,000,000</span>	
16	Wastewater Treatment Plant		
17	System Flushing	874,878	#VALUE!
18	Fire Department Usage	47,040	#VALUE!
19	DBP Flushing	0	
<b>TOTAL USAGE</b>		2,921,918	
21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>		<b>64.7%</b>

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	0	
24	Repaired Line Breaks	6,551,191	#VALUE!
25	Unknown Loss	27,579,722	52.3%
<b>TOTAL WATER NOT SOLD OR USED</b>		<b>34,130,913</b>	
27	<b>COST OF WATER NOT SOLD OR USED</b>		<b>#VALUE!</b>

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	27,579,722	
29	% "Unknown Loss"	52.3%	
30	(insert days of operation during month) Number of Days in Period		
31	"Unknown Loss" per Day (Gallons per Day)		
32	"Unknown Loss" per Minute (GPM)		
33	"Unknown Loss" Cost for Month		#VALUE!

## Monthly Water Use Report

Water Utility:  PWSID:

For the Month of:  Year:

1 PRODUCTION COST PER THOUSAND (insert cost)   
 2 PURCHASE COST PER THOUSAND (insert cost)

### GALLONS

WATER PRODUCED or PURCHASED		
3	Water Produced	63,801,000 100.0%
4	Water Purchased	0.0%
5	<b>TOTAL PRODUCED AND PURCHASED</b>	63,801,000
6	<b>TOTAL COST #VALUE!</b>	

WATER SOLD		
7	Residential	13,076,570
8	Commercial	2,379,000
9	Industrial	
10	Bulk Loading Stations	
11	Wholesale	
12	Other Sales (explain)	
13	<b>TOTAL WATER SOLD</b>	15,455,570 24.2%
14	<b>TOTAL WATER NOT SOLD</b>	48,345,430 75.8%

BREAKDOWN OF WATER USAGE		
15	Water Treatment Plant	2,500,000
16	Wastewater Treatment Plant	
17	System Flushing	1,575,165 #VALUE!
18	Fire Department Usage	46,365 #VALUE!
19	DBP Flushing DBP Maintenance	0
20	<b>TOTAL USAGE</b>	4,121,530
21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>	<b>69.3%</b>

BREAKDOWN OF WATER LOST		
22	Tank Overflows (other than for DBP maintenance)	
23	Excavation Breaks	0
24	Repaired Line Breaks	12,562,309 #VALUE!
25	Unknown Loss	31,661,590 49.6%
26	<b>TOTAL WATER NOT SOLD OR USED</b>	<b>44,223,900</b>
27	<b>COST OF WATER NOT SOLD OR USED</b>	<b>#VALUE!</b>

"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss"	31,661,590
29	% "Unknown Loss"	49.6%
30	(insert days of operation during month) Number of Days in Period	
31	"Unknown Loss" per Day (Gallons per Day)	
32	"Unknown Loss" per Minute (GPM)	
33	"Unknown Loss" Cost for Month	#VALUE!

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