

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

**ELECTRONIC CANNONSBURG)
WATER DISTRICT'S)
UNACCOUNTED-FOR WATER LOSS) CASE NO. 2014-00267
REDUCTION PLAN, SURCHARGE)
AND MONITORING)**

**RESPONSE OF
CANNONSBURG WATER DISTRICT
TO
COMMISSION STAFF'S THIRD REQUEST FOR INFORMATION
DATED APRIL 4, 2019**

FILED: April 18, 2019

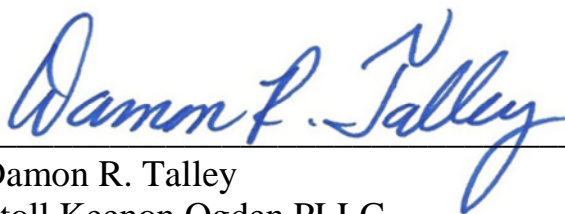
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**RESPONSE OF CANNONSBURG WATER DISTRICT TO
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Comes Cannonsburg Water District, for its Response to the Commission Staff's Third Request for Information, and states as shown on the following pages.



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Hodgenville, KY 42748-0150
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Fax: (270) 358-9560
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Counsel for Cannonsburg Water District

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

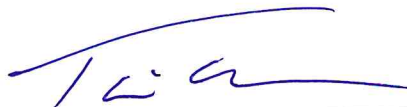
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UNACCOUNTED-FOR WATER LOSS) CASE NO. 2014-00267
REDUCTION PLAN, SURCHARGE)
AND MONITORING)**

**CERTIFICATION OF RESPONSE OF CANNONSBURG WATER
DISTRICT TO COMMISSION STAFF'S THIRD REQUEST FOR
INFORMATION**

This is to certify that I have supervised the preparation of Cannonsburg Water District's Responses to the Commission Staff's Third Request for Information. The response submitted on behalf of Cannonsburg Water District is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Date: 4-18-19



Tim Webb, General Manager
Cannonsburg Water District

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 1

Responding Witness: Tim Webb

Q-1. Cannonsburg District informed Commission Staff at the informal conference held in this matter on August 30, 2018, that an application for a Certificate of Public Convenience and Necessity (CPCN) would be filed. Provide an update to the status of that filing.

A-1. Within the next **60 days**, Cannonsburg Water District (“Cannonsburg”) realistically expects to advertise for bids for a contractor to furnish and install approximately 36 additional zone meters and to replace the existing 10 zone meters. Cannonsburg will then file for a Certificate of Public Convenience and Necessity (“CPCN”) within 30 days after the bids are opened. Of course, this assumes that favorable bids are received from a reputable contractor.

Cannonsburg’s Current Proposed Project. Recently, Cannonsburg engaged the services of Bell Engineering to prepare an Opinion of Probable Cost for the Phase I – Zone Metering Project, which consists, primarily, of furnishing and installing 36 new zone meters and replacing all 10 existing

zone meters. The estimated cost of the Phase I Project is approximately \$987,000. This amount includes a 10% contingency. A copy of Bell Engineering's Opinion of Probable Cost is attached to this response. Assuming that the PSC approves a new monthly water loss reduction surcharge of **\$4.00 per month** per active meter, Cannonsburg plans to authorize Bell Engineering to prepare the bid specifications, contract documents, and proceed with advertising for bids for the Phase I Project.

Why hasn't Cannonsburg already bid this project and filed for a CPCN? When Cannonsburg attended the August 30, 2018 Informal Conference at the PSC it intended to perform the installation of the new zone meters with its own work force to "stretch" the remaining water loss surcharge funds so there would be adequate funds to purchase all the zone meters without incurring any additional debt. Based upon conversations with PSC Staff at the Informal Conference and various subsequent events, Cannonsburg has since reconsidered and no longer plans to perform the work with its own work force. Some of the events that have delayed this project are listed below.

Are 36 Additional Zone Meters Needed? At the August 30, 2018 Informal Conference, Cannonsburg had just experienced sharp declines in

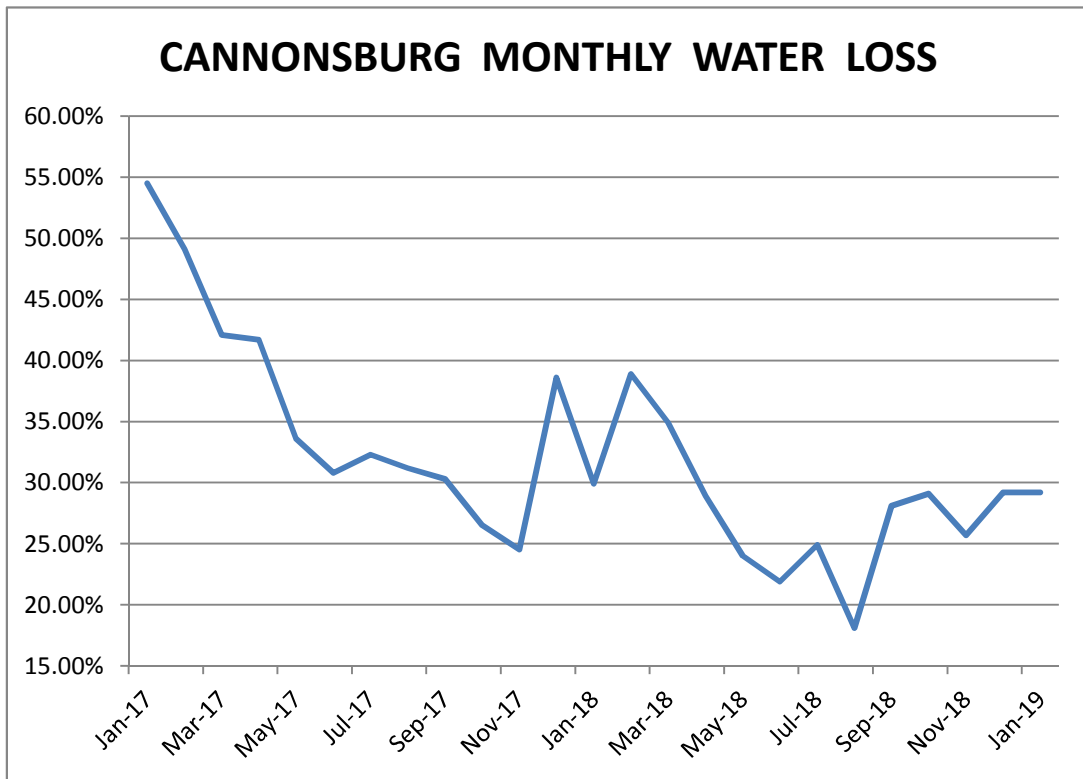
its water loss. It had achieved three (3) consecutive months with line loss below **25%**. One month was under 20%. Cannonsburg was uncertain whether it was prudent to invest over \$500,000 to install additional zone meters if the recent line loss reductions could be sustained. Unfortunately, “life happened” and leaks starting occurring more frequently. Attached is a graph which depicts Cannonsburg’s monthly water losses for calendar year 2017 and 2018. Obviously, Cannonsburg needs to more aggressively pursue additional line loss reduction efforts.

Engineer Retires. One of the reasons that Cannonsburg has not already prepared the bid specifications and contract documents for the Phase I Project is because its former consulting engineer was ill during the fall of 2018 and then retired. As stated above, Cannonsburg has now engaged the services of Bell Engineering.

Limited Work Force. As previously stated, Cannonsburg originally planned to purchase the additional zone meters and install them with its existing work force. Cannonsburg now realizes that this option is no longer realistic. Completion of the Phase I Project is critical to reducing Cannonsburg’s water loss and must be given a higher priority. A contractor can install the additional zone meters in less time and more

efficiently. Cannonsburg's existing work force will be better utilized by intensifying its leak detection efforts.

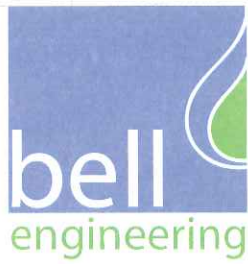
Monthly Surcharge. Approximately \$521,000 remains in Cannonsburg's water loss reduction surcharge account. These funds will be utilized for the Phase I Project. As stated above, Bell Engineering estimates that the total Phase I Project will cost approximately \$987,000. Thus, more funds will be needed to install the zone meters and complete the Phase I Project. At its regular monthly meeting on April 17, 2019, the Cannonsburg Board of Commissioners adopted the attached Resolution No. 2019-04-01. This Resolution authorizes Cannonsburg's Chairman and General Manager to request that the PSC authorize a new monthly surcharge in the amount of **\$4.00** per customer to fund Cannonsburg's unaccounted-for water loss reduction efforts, including the Phase I Project. At the formal Hearing to be held on April 25, 2019, Cannonsburg plans to formally request that the PSC authorize this new monthly surcharge.



2017 Annual Average: 36.27%

2018 Annual Average: 27.80%

Source: Monthly Water Loss Reports filed by Cannonsburg in PSC Case No. 2014-00267



April 17, 2019

Mr. Tim Webb, Superintendent
Cannonsburg Water
1606 Cannonsburg Road
Ashland, Kentucky 41102

**Re: Opinion of Probable Cost
Phase I-Zone Metering Project
Phase II-Service Line Connection and Meter Replacement Project**

Dear Mr. Webb:

On behalf of Bell Engineering, we wanted to thank for taking the time to meet with us last week. As requested, we are attaching opinion(s) of probable cost for the referenced projects. We understand that the focus of each project is the continued reduction of non-revenue water (NRW) in the Cannonsburg system. The following is a brief summary of the scope of work that will be covered under each project.

Phase I - Zone Metering Project

1. Installation of approximately 36 "omni" zone metering devices equipped with pressure monitoring equipment that can be incorporated into the existing flex-net system.
2. Replacement of approximately 10 existing zone metering devices with new "omni" zone metering devices equipped with pressure monitoring equipment that can be incorporated into the existing flex-net system.
3. Development of a comprehensive hydraulic model that can be used to improve current operating efficiency and plan for changes in future demand.

Phase II - Service Line Connection and Meter Replacement Project

1. Replacement of approximately 600 existing service line connections.
2. Purchase of approximately 500 I-pearl meters equipped with flex-net capabilities to be installed by Cannonsburg Water.

Mr. Tim Webb, Superintendent

April 17, 2019

Page 2

3. Upgrades and expansion of existing system wide telemetry.
4. Development of a capital improvements plan (CIP), flushing plan and condition assessment report for all tank and pump station sites.

Please understand that the attached probable cost were developed based on information gathered at our initial meeting and may need to be revised and updated as each project progresses.

Thank you again for allowing us the opportunity to meet with you. We look forward to working with you in the future. Should you need any additional information or further assistance please do not hesitate to contact us at your convenience.

Sincerely,
BELL ENGINEERING



Alan Bowman, PE
Project Engineer

Attachments

- c: Mr. Kelly Gillespie, President, Bell Engineering
Mr. Damon R. Talley, Attorney-at-Law, Stoll Keenon Ogden PLLC



Lexington, KY | 859.278.5412
 Hopkinsville, KY | 270.886.5466
 Asheville, NC | 828.774.5499

OPINION OF PROBABLE PROJECT COST

Project: PHASE 1 - ZONE METERING PROJECT

Client: CANNONBURG WATER DISTRICT

No Design Completed

Preliminary

Date: APRIL 2019

Contract No.: 691-19-A

Final Design

Est. By: RAB

Checked By: KGG

SHEET: 1

OF: 1

Drawing No.: N/A

ITEM NO.	ITEM DESCRIPTION	QUANTITY		MATERIAL		LABOR		TOTAL COST
		NO.	UNIT	PER UNIT	TOTAL	PER UNIT	TOTAL	
CONSTRUCTION								
1	NEW 3-INCH OMNI ZONE METER	13	EA	\$7,500	\$97,500	\$3,500	\$45,500	\$143,000
2	NEW 4-INCH OMNI ZONE METER	2	EA	\$9,500	\$19,000	\$4,000	\$8,000	\$27,000
3	NEW 6-INCH OMNI ZONE METER	20	EA	\$14,000	\$280,000	\$4,500	\$90,000	\$370,000
4	NEW 12-INCH OMNI ZONE METER	1	EA	\$22,500	\$22,500	\$5,500	\$5,500	\$28,000
5	REPLACE EX. 6-INCH OMNI ZONE METER	10	EA	\$14,000	\$140,000	\$6,000	\$60,000	\$200,000
TOTAL OPINION OF PROBABLE CONSTRUCTION COST								\$768,000
PROJECT COST								
1	ENGINEERING FEES - DESIGN (USDA RD CURVE)							\$50,000
2	ENGINEERING FEES - BIDDING (USDA RD CURVE)							\$7,000
3	ENGINEERING FEES - CONSTRUCTION ADMINISTRATION (USDA RD CURVE)							\$14,000
4	ENGINEERING FEES - INSPECTION (USDA RD CURVE)							\$47,000
5	HYDRAULIC MODEL (LUMP SUM)							\$25,000
6	CONTINGENCIES (APPROXIMATELY 10% CONSTRUCTION)							\$76,000
7	LEGAL / ADMINISTRATIVE							\$10,000
TOTAL OPINION OF PROBABLE PROJECT COST								\$987,000



4/17/19



Lexington, KY | 859.278.5412
 Hopkinsville, KY | 270.886.5466
 Asheville, NC | 828.774.5499

OPINION OF PROBABLE PROJECT COST

Project: PHASE II - SERVICE LINE CONNECTION AND METER REPLACEMENT PROJECT

Client: CANNONBURG WATER DISTRICT

Date: APRIL 2019
Est. By: RAB

Contract No.: 691-19-A
Checked By: KGG

- No Design Completed
- Preliminary
- Final Design

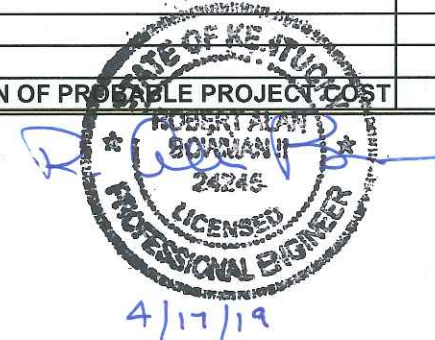
SHEET: 1 **OF:** 1

Drawing No.: N/A

ITEM NO.	ITEM DESCRIPTION	QUANTITY		MATERIAL		LABOR		TOTAL COST
		NO.	UNIT	PER UNIT	TOTAL	PER UNIT	TOTAL	
CONSTRUCTION								
1	REPLACE EXISTING SERVICE LINE CONNECTION, INCLUDING SERVICE SADDLE AND 3/4-INCH POLY ETHYLENE WATER LINE.	600	EA	\$300	\$180,000	\$2,000	\$1,200,000	\$1,380,000
2	PURCHASE NEW RESIDENTIAL METERS, EQUIPPED WITH "FLEX NET" MONITORING TO BE INSTALLED BY OWNER.	500	EA	\$330	\$165,000	XXXXX	XXXXX	\$165,000
3	TELEMETRY UPGRADES	1	LS	\$250,000	\$250,000	XXXXX	XXXXX	\$250,000
TOTAL OPINION OF PROBABLE CONSTRUCTION COST								\$1,795,000

PROJECT COST								
1	ENGINEERING FEES - DESIGN (USDA RD CURVE BASED ON TOTAL OPCC)							\$99,000
2	ENGINEERING FEES - BIDDING (USDA RD CURVE BASED ON TOTAL OPCC)							\$14,000
3	ENGINEERING FEES - CONSTRUCTION ADMINISTRATION (USDA RD CURVE BASED ON TOTAL OPCC)							\$28,000
4	ENGINEERING FEES - INSPECTION (USDA RD CURVE BASED ON TOTAL OPCC)							\$86,000
5	CAPITAL IMPROVEMENTS PLAN (CIP)							\$50,000
6	FLUSHING PLAN							\$5,000
7	CONDITION ASSESSMENT REPORT OF EXISTING PUMP STATIONS AND TANK SITES							\$10,000
8	LEGAL / ADMINISTRATIVE							\$15,000
9	OTHER							\$180,000
TOTAL OPINION OF PROBABLE PROJECT COST								\$2,282,000

PRELIMINARY



RESOLUTION NO. 2019-04-01

**RESOLUTION OF CANNONSBURG WATER DISTRICT
APPROVING THE REQUEST FOR AUTHORITY TO
IMPLEMENT A NEW MONTHLY SURCHARGE TO FUND
ITS UNACCOUNTED-FOR WATER LOSS REDUCTION
EFFORTS.**

WHEREAS, Cannonsburg Water District (“Cannonsburg”) is a water district organized pursuant to KRS Chapter 74;

WHEREAS, Cannonsburg owns and operates facilities that distribute water to customers in Boyd and Greenup counties;

WHEREAS, Cannonsburg has a history of high unaccounted-for water loss;

WHEREAS, on August 8, 2011, Cannonsburg applied for an adjustment of its rates for water service, and on June 4, 2012, the Kentucky Public Service Commission (“PSC”) authorized the assessment of a monthly surcharge of \$5.53 on all customers for a period of 36 months to fund Cannonsburg’s non-revenue water reduction efforts;

WHEREAS, the monthly surcharge has since ended, but Cannonsburg realizes there is more progress to be made in reducing its water loss;

WHEREAS, the separate account holding the remaining surcharge funds has a current balance of approximately \$521,000;

WHEREAS, Cannonsburg has engaged the services of Bell Engineering (“Bell”) to assist in its ongoing water loss reduction efforts. Bell and Cannonsburg have identified several projects that need to be undertaken to reduce Cannonsburg’s water loss. Bell proposes that these projects be undertaken in multiple phases;

WHEREAS, Bell has estimated the cost to perform Phase I of the water loss reduction projects will far exceed the funds currently available in the surcharge account;

WHEREAS, it is necessary for Cannonsburg to raise more revenue to finance its efforts to reduce its water loss; and

WHEREAS, implementing a new monthly surcharge to fund Cannonsburg’s non-revenue water reduction efforts appears to be the most feasible means to raise the necessary funds.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF CANNONSBURG WATER DISTRICT AS FOLLOWS:

Section 1. The facts, recitals, and statements contained in the foregoing preamble of this Resolution are true and correct and are hereby affirmed and

incorporated as a part of this Resolution.

Section 2. It is hereby determined and declared to be necessary that Cannonsburg request the PSC to authorize a new monthly surcharge in the amount of \$ 4.00 per customer to fund Cannonsburg's unaccounted-for water loss reduction efforts.

Section 3. The Board of Commissioners hereby authorizes the Chairman and General Manager to request that the PSC authorize a new monthly surcharge fee in the amount of \$ 4.00 per month per active meter.

Section 4. This Resolution shall take effect upon its adoption.

ADOPTED BY THE BOARD OF COMMISSIONERS OF CANNONBURG WATER DISTRICT at a meeting held on April 17, 2019, signed by the Chairman, and attested by the Secretary.

CANNONBURG WATER DISTRICT

BY: 
Robert McGuire, Chairman

ATTEST:


Mark Kazee, Secretary

CERTIFICATION

The undersigned Secretary of Cannonsburg Water District (the "District") does hereby certify that the foregoing is a true copy of a Resolution duly adopted by the Commission of the District at a meeting properly held on April 17, 2019, signed by the Chairman of the Commission, attested by the Secretary, and now in full force and effect.

WITNESS my hand this 17th day of April, 2019.

A handwritten signature in blue ink, appearing to read "Mark Kazee", is written above a horizontal line.

Mark Kazee, Secretary

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 2

Responding Witness: Tim Webb

Q-2. Describe in detail the procedure utilized in preparing monthly water use and water loss reports, including, but not limited to, the following:

- a. How Cannonsburg District calculates water loss, water treatment plant usage, and system flushing.**
- b. Identify by name and job title, employees who prepare or assist in the preparation of the reports.**
- c. What is included in the water loss category? Specifically, state whether Cannonsburg District includes water loss from known leaks and breaks in the water loss category.**

A-2.

- a. Cannonsburg calculates water loss using two different Excel spreadsheets (see attached exhibits). Water purchased is provided by the City of Ashland and all other water usage is provided by Cannonsburg. Cannonsburg does not have a Water Treatment Plant, but does include water used by the utility at its office, shop, and sampling sites in this category as can be seen on line 16 of the

attached exhibit. System flushing is calculated by different methods depending on the location and flushing apparatus. Flushing done through a hydrant is calculated by using a flushing diffuser with attached pitot gauge. This gauge measures the flow in GPM. Flushing done on a line with no hydrant, but where there is a zone meter, is measured through the zone meter. A line flushed that has no hydrant or zone meter is flushed through a blow off. To determine the rate of flow on the blow off, the flow is measured and compared to the chart contained in the Operator's Companion Handbook (see exhibit).

- b. Reports are prepared by Tim Webb, General Manager. Information for reports are compiled by Tim Webb-General Manager, Bob Hicks-Field Foreman, Tommy McCalvin-Distribution Operator, and Caleb Porter-Distribution Operator.
- c. On the attached exhibit, the water loss category includes loss from tank overflow, line breaks, and line leaks. Line break quantities are determined by leak repairs made during the calculated month. Line leaks is the determined water loss within the system after all accounted for use has been calculated. In other words, the Line leaks category is the amount of the unknown water loss.

PUBLIC SERVICE COMMISSION

Monthly Water Loss Report

Water Utility: Cannonsburg Water District

For the Month of: December Year: 2018

LINE #	ITEM	GALLONS (Omit 000's)
1	WATER PRODUCED, PURCHASED & DISTRIBUTED	
2	Water Produced	
3	Water Purchased	
4	TOTAL PRODUCED AND PURCHASED	-
5		
6	WATER SALES	
7	Residential	
8	Commercial	
9	Industrial	
10	Bulk Loading Stations	
11	Wholesale	
12	Other Sales _____	
13	TOTAL WATER SALES	- #DIV/0!
14		
15	OTHER WATER USED	
16	Utility and/or Water Treatment Plant	
17	Wastewater Plant	
18	System Flushing	
19	Fire Department	
20	Other _____	
21	TOTAL OTHER WATER USED	- #DIV/0!
22		
23	WATER LOSS	
24	Tank Overflows	
25	Line Breaks	
26	Line Leaks	-
27	Other _____	
28	TOTAL LINE LOSS	- #DIV/0!
29		
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4	
31		
32	WATER LOSS PERCENTAGE	
33	Unaccounted-For Water (Line 28 divided by Line 4)	#DIV/0!

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: December Year: 2018

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

GALLONS

WATER PRODUCED or PURCHASED		
3	Water Produced	
4	Water Purchased	
5	TOTAL PRODUCED AND PURCHASED	0
6	TOTAL COST	

WATER SOLD		
7	Residential	
8	Commercial	
9	Industrial	
10	Bulk Loading Stations	
11	Wholesale	
12	Other Sales (explain)	
13	TOTAL WATER SOLD	0
14	TOTAL WATER NOT SOLD	0

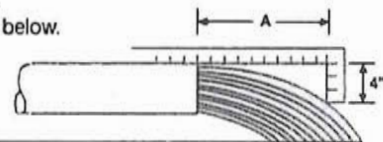
BREAKDOWN OF WATER USAGE		
15	Water Treatment Plant	
16	Wastewater Treatment Plant	
17	System Flushing	
18	Fire Department Usage	
19	DBP Flushing	
20	TOTAL USAGE	0
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES	0

BREAKDOWN OF WATER LOST		
22	Tank Overflows	
23	Excavation Breaks	
24	Repaired Line Breaks	
25	Unknown Loss	0
26	TOTAL WATER NOT SOLD OR USED	0
27	COST OF WATER NOT SOLD OR USED	

"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss"	0
29	% "Unknown Loss"	
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	

Use a carpenter's square to measure the distance A at the point where the top of water flow has dropped 4 inches. Determine the flow rate in gallons per minute from the table below.

Example: If the pipe size is 2" and the "A" measurement is 10", the flow rate is 55.5 gpm.



Estimating Discharge from a Horizontal Pipe with Full Pipe Flow

horiz. dist. (A) inches	Discharge Rate in Gallons per Minute											
	Nominal Pipe Size											
	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
4	5.7	9.8	13.3	22.0	31.3	48.5	83.5	—	—	—	—	—
5	7.1	12.2	16.6	27.5	39.0	61.0	104	163	—	—	—	—
6	8.5	14.7	20.0	33.0	47.0	73.0	125	195	285	—	—	—
7	10.0	17.1	23.2	38.5	55.0	85.0	146	228	334	380	—	—
8	11.3	19.6	26.5	44.0	62.5	97.5	166	260	380	665	1060	—
9	12.8	22.0	29.8	49.5	70.0	110	187	293	430	750	1190	1660
10	14.2	24.5	33.2	55.5	78.2	122	208	326	476	830	1330	1850
11	15.6	27.0	36.5	60.5	86.0	134	229	360	525	915	1460	2100
12	17.0	29.0	40.0	66.0	94.0	146	250	390	570	1000	1600	2200
13	18.5	31.5	43.0	71.5	102	158	270	425	620	1080	1730	2400
14	20.0	34.0	46.5	77.0	109	170	292	456	670	1160	1860	2590
15	21.3	36.3	50.0	82.5	117	183	312	490	710	1250	2000	2780
16	22.7	39.0	—	88.0	125	196	334	520	760	1330	2120	2960
17	—	41.5	—	93.0	133	207	355	550	810	1410	2260	3140
18	—	—	—	99.0	144	220	375	590	860	1500	2390	3330
19	—	—	—	110.0	148	232	395	620	910	1580	2520	3500
20	—	—	—	—	156	244	415	650	950	1660	2660	3700
21	—	—	—	—	—	256	435	685	1000	1750	2800	—
22	—	—	—	—	—	—	460	720	1050	1830	2920	—
23	—	—	—	—	—	—	—	750	1100	1910	3060	—
24	—	—	—	—	—	—	—	—	1140	2000	3200	—

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 3

Responding Witness: Tim Webb

Q-3. State whether Cannonsburg District has completed a water loss detection plan.

- a. If the answer is yes, provide a copy of the last completed water loss detection plan.**
- b. If the answer is no, explain why a water loss detection plan has not been completed.**

A-3.

a & b. Cannonsburg does not have a written water loss detection plan in place at this time. With the assistance of Bell Engineering, Cannonsburg will be completing a Hydraulic Model of the system to better understand flow, demand, and pressures. This information will be used to create a more precise approach to leak detection. Currently, standard practice, when manpower is available, is to visually inspect for leaks and to use portable flow monitor on lines and listening device to narrow down areas of concern. Zone meters are monitored daily to compare known usage.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 4

Responding Witness: Tim Webb

Q-4. State whether Cannonsburg District has completed a comprehensive unaccounted-for water loss reduction plan.

- a. If the answer is yes, provide a copy of the last completed comprehensive unaccounted-for water loss reduction plan.**
- b. If the answer is no, explain why a comprehensive unaccounted-for water loss reduction plan has not been completed.**

A-4.

- a & b. Cannonsburg does not have a comprehensive unaccounted-for water loss reduction plan beyond the addition of zone metering at this time.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 5

Responding Witness: Tim Webb

Q-5. Provide a copy of Cannonsburg District's most recent and updated annual and long-range Capital Improvement Plans.

A-5. Cannonsburg does not have a Capital Improvement Plan. Cannonsburg has contracted with Bell Engineering to assist in the creation of a 10-year Capital Improvement Plan. This plan will provide a prioritized improvement plan for each year through year ten with the capability to be built upon for additional years beyond that.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 6

Responding Witness: Tim Webb

Q-6. Provide the names of the persons or entities responsible for assisting the utility with capital improvement planning, grant application assistance, engineering design, and construction services.

A-6. Kelly Gillespie and Alan Bowman with Bell Engineering will be providing the primary assistance for Cannonsburg. Further assistance will be provided by Damon Talley of Stoll, Keenon and Ogden. Assistance may also be provided by FIVCO, USDA-RD, KRWA, and Boyd County Fiscal Court.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 7

Responding Witness: Tim Webb

Q-7. Provide a copy of Cannonsburg District's preventative maintenance program for the plant, pump, and storage facilities.

A-7. Cannonsburg does not have a written preventative maintenance program at this time. Preventative pump maintenance is done in accordance with the pump manufacturer's recommendations contained in the pump manuals. If a pump has no manual, maintenance is done according to Service Pump and Supply, Inc.'s recommendations. Service Pump and Supply, Inc. is a local area business that supplies pump parts and repairs. Cannonsburg has five (5) water storage tanks. Tanks are on a 5-year rotating inspection schedule. Every year one (1) tank is inspected professionally by a tank inspection company by diving and/or an ROV. Cannonsburg also does visual inspections of all facilities.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 8

Responding Witness: Tim Webb

Q-8. State whether Cannonsburg District has assigned specific personnel the responsibility to detect and fix water line leaks, and if so, state the names and job titles of such personnel and describe the functions and duties of each.

A-8. Cannonsburg has six (6) field employees on staff. As time allows, any or all employees will conduct some type of leak detection and repair. At this time Cannonsburg does not have the manpower to dedicate specific individuals to the role of detection and repair.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 9

Responding Witness: Tim Webb

Q-9. State whether leak detection is conducted on a daily basis, and if not, state the reasons why not.

A-9. Leak detection is not done daily in the field due to lack of manpower. Zone meters are checked daily online. As time and manpower allows, leak detection is done in the field.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 10

Responding Witness: Tim Webb

Q-10. Provide the number of completed water line leak repairs by category, i.e., mains, service lines, etc., that were completed from September 1, 2018, to the date of the issuance of this request.

A-10. Cannonsburg had a total of 53 repairs in the requested time range. Of those repairs made, 39 were service line repairs, 9 were water main repairs, 4 were broken meters, and 1 was a hydrant that blew off its coupling.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 11

Responding Witness: Tim Webb

Q-11. Provide copies of each work order generated to investigate leaks reported by customers of Cannonsburg District from September 1, 2018, to the date of the issuance of this request.

A-11. See attached Work Order exhibits.



Work Order 65319



GO TO ACCOUNT RETURN TO LIST TOOLS

General Information

Account: 100001-0 **Route:** Location 0 **Sequence:** 0
Service Address: CWD-LK REPAIRS, P RECRDR
1606 CANNONBURG RD
ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 09/04/2018 03:15 PM
Scheduled Start: 09/04/2018
Scheduled End: 09/04/2018 12:15 AM
Assign To:
sh - tom cooksey called to say that a meter is leaking at 9417 meade
Notes: springer rd - there are 3 meters on this property do not know which one it is -

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 09/04/2018 03:15 PM
Completed Hours:
Completed Notes: MS/ REPAIRED SERVICE LINE. BO, TOMMY, PHILLIP, CALEB, JASON. WATER LOSS: 10,000

Current Bill To / New Bill To

Current **New**
Name: CWD
Address 1: 1606 CANNONBURG RD
Address 2:
ASHLAND KY, 41102-8929

Meter Information

Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
No results found.					

Charges

Charge	Quantity	Amount
No results found.		

Attachments

No attachments found.



Work Order 65342

GO TO ACCOUNT RETURN TO LIST TOOLS

General Information

Account: 107130-0 **Route:** Location 2 **Sequence:** 1
Service Address: LIVING WATERS WORSHIP CENTER
 1315 MARSH HILL DR
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 09/06/2018 12:04 PM
Scheduled Start: 09/06/2018
Scheduled End: 09/06/2018 12:15 AM
Assign To:
Notes: sh - pastor french cld and said that there was a leak - water coming down hill behind church

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 09/06/2018 04:48 PM
Completed Hours:
Completed Notes: MS/ FIX 2-LEAKS ON 3/4" SERVICE LINE. BOB, BO, TOM, CALEB, JASON, PHILLIP. WATER LOSS: 3,000

Current Bill To / New Bill To

Current	New
Name: LIVING WATERS WORSHIP CNT	
Address 1: 286 WOLFPEN HOLLOW	
Address 2: WURLAND KY, 41144-7346	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	79914651	5/8"	83605276	85300	C	B

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 65345



[GO TO ACCOUNT](#) [RETURN TO LIST](#) [TOOLS](#)

General Information

Account: 101250-1 **Route:** Location 2 **Sequence:** 1
Service Address: SANDY ROSE
3933 MCGUIRE DR
CATLETTSBURG KY, 41129
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 09/06/2018 01:27 PM
Scheduled Start: 09/06/2018
Scheduled End: 09/06/2018 12:15 AM
Assign To:

Notes: MS/ SANDY CALLED TO REPORT POSSIBLE LEAK. NOTICED BOILING UP NEXT TO SEWER MANHOLE BUT NO ODOR EVIDENT. RUNNING DOWN BY ROAD AND POOLING.

Estimated Hours
Priority
Project
Department





Completion

Completed Date: 09/07/2018
Completed Hours:
Completed Notes: MS/ FIXED 1" SERVICE LINE, BOB, BO, TOM, PHILLIP, CALEB & JASON. WATER LOSS: 10,000

Current Bill To / New Bill To

Current	New
Name: SANDY ROSE	
Address 1: 3933 MCGUIRE DR	
Address 2:	
CATLETTSBURG KY, 41129-9756 , -	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
   	84892727	5/8"	89763750	8000	C	

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 65661

GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 102412-0 Route: Location 16 Sequence: 1
 Service Address: ROBERT PEMBERTON
 11609 TOWLER LANE
 ASHLAND KY, 41102
 Status: Completed
 Printed: Yes

Task POSSIBLE LEAK

Contact:
 Phone:
 Entered Date: 10/10/2018 11:34 AM
 Scheduled Start: 10/10/2018
 Scheduled End: 10/10/2018 12:15 AM

Assign To:

SH - MRS CLD SAID THAT BY THE MAILBOX ON CONCRETE OR
 Notes: BLACKTOP THERE IS A WET PLACE THERE THAT NEVER DRIES
 UP - PLEASE CK TO SEE IF THERE IS A LEAK

Estimated Hours
 Priority
 Project
 Department

Completion

Completed Date: 10/12/2018 11:48 AM
 Completed Hours:
 Completed Notes: MS/ FIXED 1" SERVICE LINE. BOB, BO, TOM, PHILLIP.
 WATER LOSS: 10,000.

Current Bill To / New Bill To

Current	New
Name: ROBERT PEMBERTON	
Address 1: 11609 TOWLER LN	
Address 2:	
ASHLAND KY, 41102-8021	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	81559024	5/8"	90248158	61800	C	B RDS IN THOUSANDS

Charges

Charge	Quantity	Amount
No results found.		

Attachments

No attachments found.



Work Order 65677



General Information

Account: 104619-0 **Route:** Location 15D **Sequence:** 1
Service Address: JOHN SMITH
 1421 GREEN VALLEY DR
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 10/12/2018 12:59 PM
Scheduled Start: 10/12/2018
Scheduled End: 10/12/2018 12:15 AM
Assign To:
 SH - CUS CALLED IN TO SAY THAT THERE IS CLEAR WATER
Notes: RUNNING IN DITCH COMING FROM WHERE THEY TORE DOWN
 A HOUSE

Estimated Hours
Priority
Project
Department





Completion

Completed Date: 10/12/2018
Completed Hours:
Completed Notes: MS/ REPQIR SERVICE LINE LEAKING OUTSIDE OF
 THE METER BOX. TOM, BOB, BO, CALEB, PHILLIP.
 WATER LOSS: 35,281

Current Bill To / New Bill To

Current	New
Name: JOHN SMITH	
Address 1: 1421 GREEN VALLEY DR	
Address 2:	
ASHLAND KY, 41102-9731	,-

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
   	79915404	5/8"	13418915	76600	C	B

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 65917



[GO TO ACCOUNT](#) [RETURN TO LIST](#) [TOOLS](#)

General Information

Account: 101982-0 **Route:** Location 3 **Sequence:** 1
Service Address: TERRY JOHNSON
 3951 BRANDYWINE DR
 CATLETTSBURG KY, 41129
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 10/26/2018 08:14 AM
Scheduled Start: 10/26/2018
Scheduled End: 10/26/2018 12:15 AM
Assign To:
Notes: 606-739-0183 HAS NOTICED EXCESS WATER FOR A COUPLE DAYS ABOUT 50 FEET FROM METER.

Estimated Hours
Priority
Project
Department





Completion

Completed Date: 10/29/2018 03:00 PM
Completed Hours:
Completed Notes: MS/ REPAIRED 3/4" SERVICE LINE. WATER LOSS: 4,000 BY: TOM, BO, BOB, CALEB, PHILLIP.

Current Bill To / New Bill To

Current	New
Name: TERRY JOHNSON	
Address 1: 3951 BRANDYWINE DR	
Address 2: CATLETTSBURG KY, 41129-9674 , -	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
   	79915693	5/8"	83482746	112500	C	B 1in METER

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Orders

CANNONSBURG WATER

My Account | Logout | Help & Support



ACCOUNTS WORK ORDERS CALENDAR MAINTENANCE

Work Order 65949



GO TO ACCOUNT RETURN TO LIST TOOLS

General Information

Account: 101983-0 **Route:** Location 3 **Sequence:** 1
Service Address: JOEL F HOPKINS
3942 BRANDYWINE DR
CATLETTSBURG KY, 41129
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 10/30/2018 10:39 AM
Scheduled Start: 10/30/2018
Scheduled End: 10/30/2018 12:15 AM
Assign To:
MS/ CUSTOMER ADVISED THERE IS WATER COMING UP THRU
Notes: THE ASPHALT IN FRONT OF HIS HOME. PLEASE ADVISE OF FINDINGS.

Estimated Hours
Priority
Project
Department

Current Bill To / New Bill To

Current **New**
Name: JOEL F HOPKINS
Address 1: 3942 BRANDYWINE DR
Address 2:
CATLETTSBURG KY, 41129-9674 , -

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	79904227	5/8"	83483344	126900	C	B

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.

Completion

Completed Date: 10/29/2018 03:00 PM
Completed Hours:
Completed Notes: MS/ REPAIRED 3/4" SERVICE LINE. WATER LOSS: 4,000
TOM, BO, BOB, CALEB, PHILLIP.



Work Order 66060



[GO TO ACCOUNT](#) [RETURN TO LIST](#) [TOOLS](#)

General Information

Account: 107868-0 **Route:** Location 3 **Sequence:** 1
Service Address: LARRY & LINDA CRUM
 15112 FANNIN LN
 CATLETTSBURG KY, 41129
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 11/20/2018 08:00 AM
Scheduled Start: 11/20/2018
Scheduled End: 11/20/2018 12:15 AM
Assign To:
Notes: sh - cus cld said water is coming up out of meter.

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 11/29/2018
Completed Hours:
Completed Notes: SMALL LEAK ON CWD SAID. TOLD CUSTOMER ABOUT IT 11/20/18 9:01 BY PAUL

Current Bill To / New Bill To

Current	New
Name: LARRY & LINDA CRUM	
Address 1: 15112 FANNIN LN	
Address 2: CATLETTSBURG KY, 41129-8009 , -	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	79904793	5/8"	83541978	99200	C	B

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 66180



[GO TO ACCOUNT](#) | [RETURN TO LIST](#) | [TOOLS](#)

General Information

Account: 108685-0 **Route:** Location 15 **Sequence:** 1
Service Address: CHARLES E. HOBBS
1819 BOOTH QUILLEN
ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 11/29/2018 08:04 AM
Scheduled Start: 11/29/2018
Scheduled End: 11/29/2018 12:15 AM
Assign To:
Notes: customer said from meter to the road there is lots of standing water

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 11/29/2018
Completed Hours:
Completed Notes: REPAIR LEAK, RUN NEW SERVICE FROM MAIN TO SETTER. TOM, BO, BOB, CALEB, PHILLIP

Current Bill To / New Bill To

Current	New
Name: CHARLES E. HOBBS	
Address 1: 1819 BOOTH QUILLEN	
Address 2: ASHLAND KY, 41102-9726	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	79904059	5/8"	90245096	80500	C	B/ FLEXNET

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 66308

General Information

Account: 104563-0 **Route:** Location 15D **Sequence:** 1
Service Address: DAVID & GWEN THOMPSON
2112 SHOPES CK
ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 12/31/2018 10:29 AM
Scheduled Start: 12/31/2018
Scheduled End: 12/31/2018 12:15 AM
Assign To:
Notes: GWEN CALLED TO REPORT LEAK CLOSE TO HER HOME *BOB

Estimated Hours
Priority
Project
Department





Completion

Completed Date: 12/31/2018
Completed Hours:
Completed Notes: LEAK AT 2046 SHOPES CRK BOB 12-31-18

Current Bill To / New Bill To

Current	New
Name: DAVID & GWEN THOMPSON	
Address 1: 2112 SHOPES CREEK RD	
Address 2:	
ASHLAND KY, 41102-7222	, -

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
   	79904015	5/8"	14115247	163700	C	B

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 66554

[GO TO ACCOUNT](#) [RETURN TO LIST](#) [TOOLS](#)

General Information

Account: 104275-0 **Route:** Location 15 **Sequence:** 1
Service Address: RICK'S AUTO CARE
 7511 MIDLAND TR
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 01/22/2019 08:45 AM
Scheduled Start: 01/22/2019
Scheduled End: 01/22/2019 12:15 AM
Assign To:
Notes: RICK REPORTED PARKING LOT IS FLOODED, AND THAT THERE WATER WAS TURNED OFF ALL WEEKEND...

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 01/23/2019
Completed Hours:
Completed Notes: FIXED 3/4 SERVICE LINE. BOB BO TOM CALEB PHILLIP WATER LOSS 20,000

Current Bill To / New Bill To

Current	New
Name: RICK'S AUTO CARE	
Address 1: 7511 MIDLAND TRAIL RD	
Address 2: ASHLAND KY, 41102-7218	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	79903791	5/8"	83551022	307900	C	B

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



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ACCOUNTS

WORK ORDERS

CALENDAR

MAINTENANCE

Work Order 65669

GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 100001-0 Route: Location 0 Sequence: 0
 Service Address: CWD-LK REPAIRS, P RECRDR
 1606 CANNONBURG RD
 ASHLAND KY, 41102
 Status: Completed
 Printed: Yes

Task LEAK REPAIR

Contact:
 Phone:
 Entered Date: 10/11/2018 01:59 PM
 Scheduled Start: 10/09/2018
 Scheduled End: 10/09/2018 12:15 AM
 Assign To:
 MS/ 5023 CANNONBURG RD ACROSS FROM CHUCK GRIGGS
 Notes: HOUSE ON THE HILL SIDE. LEAK REPAIR. REF WORK ORDER:
 65636

Estimated Hours
 Priority
 Project
 Department

Completion

Completed Date: 10/11/2018 09:00 AM
 Completed Hours:
 Completed Notes: MS/ REPAIRED SERVICE LINE LEAK. BOB, TOM, BO,
 PHILLIP. WATER LOSS: 8,000.

Current Bill To / New Bill To

Current	New
Name: CWD	
Address 1: 1606 CANNONBURG RD	
Address 2: ASHLAND KY, 41102-8929	, -

Meter Information

Meter Serial Number	Size	ECR Identifier	Reading Type	Location
<i>No results found.</i>				

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 65605



[GO TO ACCOUNT](#) | [RETURN TO LIST](#) | [TOOLS](#)

General Information

Account: 100001-0 **Route:** Location 0 **Sequence:** 0
Service Address: CWD-LK REPAIRS, P RECRDR
 1606 CANNONBURG RD
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task LEAK REPAIR

Contact:
Phone:
Entered Date: 10/03/2018 09:08 AM
Scheduled Start: 10/03/2018
Scheduled End: 10/03/2018 12:15 AM
Assign To:
Notes: MS/ @ 12532 COPLEY RD, LEAK REPAIR AFTER HOURS. 811
 CONF: 1810011848

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 10/01/2018 06:00 PM
Completed Hours:
Completed Notes: MS/ AFTER HOUR REPAIR TO FIX SERVICE LINE.
 WATER LOSS: 6,000 GALLONS. BOB, TOM, CALEB.

Current Bill To / New Bill To

Current	New
Name: CWD	
Address 1: 1606 CANNONBURG RD	
Address 2: ASHLAND KY, 41102-8929	,-

Meter Information

Meter Serial Number	Size	ECR Identifier	Reading Type	Location
<i>No results found.</i>				

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



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ACCOUNTS | WORK ORDERS | CALENDAR | MAINTENANCE

Work Order 65522

GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 100001-0 Route: Location 0 Sequence: 0
 Service Address: CWD-LK REPAIRS, P RECRDR
 1606 CANNONBURG RD
 ASHLAND KY, 41102
 Status: Completed
 Printed: Yes

Task LEAK REPAIR

Contact:
 Phone:
 Entered Date: 09/20/2018 02:09 PM
 Scheduled Start: 09/20/2018
 Scheduled End: 09/20/2018 12:15 AM
 Assign To:
 Notes: MS/ TERESA HAMRICK @ 1539 C C DRIVE. SAID THERE IS PUDDLE OF WATER NEAR METER. PAUL CONFIRMED SMALL LEAK AND CALLED IN 811, CONF: 1809201172 (COPIED TO BACK OF THIS WORK ORDER.)

Estimated Hours
 Priority
 Project
 Department

Completion

Completed Date: 09/28/2018 03:00 PM
 Completed Hours:
 Completed Notes: FIXES SERVICE LINE LEAK. WATER LOSS: 12,000. BY: TOM. CALEB, PHILLIP

Current Bill To / New Bill To

Current	New
Name: CWD	
Address 1: 1606 CANNONBURG RD	
Address 2: ASHLAND KY, 41102-8929	, -

Meter Information

Meter Serial Number	Size	ECR Identifier	Reading Type	Location
<i>No results found.</i>				

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 65405



[GO TO ACCOUNT](#) | [RETURN TO LIST](#) | [TOOLS](#)

General Information

Account: 100001-0 **Route:** Location 0 **Sequence:** 0
Service Address: CWD-LK REPAIRS, P RECRDR
 1606 CANNONBURG RD
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task LEAK REPAIR

Contact:
Phone:
Entered Date: 09/17/2018 01:48 PM
Scheduled Start: 09/17/2018
Scheduled End: 09/17/2018 12:15 AM
Assign To:
Notes: MS/ TRAVIS RICE @ 11913 MIDLAND TRAIL, ASHLAND, KY
 41102 LEAK REPAIR:

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 09/11/2018
Completed Hours:
Completed Notes: MS/ REPAIRED LEAK AT TRAVIS RICE @ 11913
 MIDLAND TRAIL, ASHLAND. WATER LOSS: 12,000. BY
 TOM, BO, BOB. @ 745PM

Current Bill To / New Bill To

Current	New
Name: CWD	
Address 1: 1606 CANNONBURG RD	
Address 2: ASHLAND KY, 41102-8929	, -

Meter Information

Meter Serial Number	Size	ECR Identifier	Reading Type	Location
<i>No results found.</i>				

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



My Account | Logout | Help & Support



ACCOUNTS | WORK ORDERS | CALENDAR | MAINTENANCE

Work Order 65395

GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 100001-0 Route: Location 0 Sequence: 0
 Service Address: CWD-LK REPAIRS, P RECRDR
 1606 CANNONBURG RD
 ASHLAND KY, 41102
 Status: Completed
 Printed: Yes

Task LEAK REPAIR

Contact:
 Phone:
 Entered Date: 09/14/2018 09:11 AM
 Scheduled Start: 09/14/2018
 Scheduled End: 09/14/2018 12:15 AM
 Assign To:
 Notes: MS/ REF WORK ORDER 65393 FOR 101742-0 FREDERICK LAYNE @ 2741 CRESTVIEW LANE. SMALL CWD LEAK

Estimated Hours
 Priority
 Project
 Department

Completion

Completed Date: 09/14/2018 12:00 PM
 Completed Hours:
 Completed Notes: MS/ REPAIR SERVICE LINE LEAKING AT THE SETTER. REPLACE SETTER AND SERVICE LINE. TOM, BO, PHILLIP, CALEB.

Current Bill To / New Bill To

Current	New
Name: CWD	
Address 1: 1606 CANNONBURG RD	
Address 2: ASHLAND KY, 41102-8929	,-

Meter Information

Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
<i>No results found.</i>					

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 66963



General Information

Account: 102351-0 Route: Location 16 Sequence: 1
 Service Address: RUSH BRANCH FIRST NATIONAL BANK
 9844 US HWY 60 E/RUSH
 RUSH KY, 41168
 Status: Completed
 Printed: Yes

Task LEAK REPAIR

Contact:
 Phone:
 Entered Date: 03/13/2019 12:27 PM
 Scheduled Start: 03/13/2019
 Scheduled End: 03/13/2019 12:15 AM
 Assign To:
 Notes: SH - PER BOB 8" WATER LINE LEAK

Estimated Hours
 Priority
 Project
 Department





Completion

Completed Date: 03/10/2019 11:00 AM
 Completed Hours:
 Completed Notes: SH - REPAIRED 8" MAIN 240,000 GALLONS

Current Bill To / New Bill To

Current	New
Name: FIRST NATIONAL BANK RUSH	
Address 1: P O BOX 67	
Address 2: GRAYSON KY, 41143-0067	
	.-

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
   	06461402	5/8"	83845718	417000	C	B

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



My Account | Logout | Help & Support



ACCOUNTS | WORK ORDERS | CALENDAR | MAINTENANCE

Work Order 65947



GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 100001-0 Route: Location 0 Sequence: 0
 Service Address: CWD-LK REPAIRS, P RECRDR
 1606 CANNONBURG RD
 ASHLAND KY, 41102
 Status: Completed
 Printed: Yes

Task LEAK REPAIR

Contact:
 Phone:
 Entered Date: 10/30/2018 08:17 AM
 Scheduled Start: 10/30/2018
 Scheduled End: 10/30/2018 12:15 AM
 Assign To:
 MS/ 16248 LONE OAK DR AT BRIARWOOD DR. FIRE HYDRANT
 Notes: KICKED EVENING OF 10-29-18. EMERGENCY REPAIR FOR THIS MORNING.

Estimated Hours
 Priority
 Project
 Department

Completion

Completed Date: 10/29/2018 12:00 PM
 Completed Hours:
 MS/ REPLACED FIRE HYDRANT VALVE. WATER LOSS:
 Completed Notes: 40,000 / LEAK, 25,000 / FLUSHING TOM, BOB, BO,
 PHILLIP CALEB.

Current Bill To / New Bill To

Current	New
Name: CWD	
Address 1: 1606 CANNONBURG RD	
Address 2: ASHLAND KY, 41102-8929	, -

Meter Information

Meter Serial Number	Size	ECR Identifier	Reading Type	Location
<i>No results found.</i>				

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 65825

GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 100616-0 Route: Location 16 Sequence: 1
 Service Address: TOWN SQUARE BANK
 9431 US RT 60
 ASHLAND KY, 41102
 Status: Completed
 Printed: Yes

Task LEAK REPAIR

Contact:
 Phone:
 Entered Date: 10/19/2018 09:29 AM
 Scheduled Start: 10/19/2018
 Scheduled End: 10/19/2018 12:15 AM
 Assign To:
 Notes: MS/ 6" FIRE SUPPRESSION LINE. 30,000 WATER LOSS

Estimated Hours
 Priority
 Project
 Department

Completion

Completed Date: 10/10/2018 09:29 AM
 Completed Hours:
 Completed Notes: MS/ OUTSIDE COMPANY MADE THE REPAIR.

Current Bill To / New Bill To

Current	New
Name: CITY NATIONAL BANK	
Address 1: 25 GATEWATER ROAD	
Address 2: CROSS LANES WV, 25313-1408 , -	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	81331509	1"	83845864	109900	C	B/ 1-IN FLEX-NET METER

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



MUNI-LINK

Work Orders

CANNONBURG WATER

ACCOUNT LOCKED

My Account | Logout | Help & Support



ACCOUNTS

WORK ORDERS

CALENDAR

MAINTENANCE

Work Order 65684

GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 100001-0 **Route:** Location 0 **Sequence:** 0
Service Address: CWD-LK REPAIRS, P RECRDR
 1606 CANNONBURG RD
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task LEAK REPAIR

Contact:
Phone:
Entered Date: 10/15/2018 08:38 AM
Scheduled Start: 10/15/2018
Scheduled End: 10/15/2018 12:15 AM
Assign To:
Notes: MS/ CARTY DRIVE LEAK REPAIR FROM SUN/10-14-18

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 10/14/2018 04:30 PM
Completed Hours:
Completed Notes: MS/ REPAIR 3" MAIN W/ 3"X 7" REPAIR CLAMP, BO & TOM. 2,000 LEAK WATER LOSS, 10,000 FLUSHING.

Current Bill To / New Bill To

Current	New
Name: CWD	
Address 1: 1606 CANNONBURG RD	
Address 2: ASHLAND KY, 41102-8929	, -

Meter Information

Meter Serial Number	Size	ECR Identifier	Reading Type	Location
<i>No results found.</i>				

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 66557

GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 108456-0 **Route:** Location 7 **Sequence:** 1
Service Address: JOE L. WHITLOCK
 4342 W STRAIGHT CREEK
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 01/22/2019 12:49 PM
Scheduled Start: 01/22/2019
Scheduled End: 01/22/2019 12:15 AM
Assign To:

Notes: SH - CUS STATES THAT METER WAS FULL OF WATER - METER MAY HAVE FROZE AND BUSTED - METER IS TURNED OFF - LID HAS BEEN OFF METER SINCE SUMMER

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 01/23/2019
Completed Hours:
Completed Notes: CALEB CONFIRMED METER IS BUSTED. ALSO NEEDS NEW LID. ATTEMPTED TO CALL CUSTOMER BUT NO ANSWER. NEW WO TO INSTALL NEW METER AND LID. # 66567

Current Bill To / New Bill To

Current	New
Name: JOE L. WHITLOCK	
Address 1: 480 - 4-MILE ROAD	
Address 2: RUSH KY, 41168-8176	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	71448928	5/8"		126600	C	

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 66617

GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 102370-0 **Route:** Location 15D **Sequence:** 1
Service Address: FRANCES LARSON
 12131 ST RT 5 APT 3
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 02/04/2019 01:18 PM
Scheduled Start: 02/04/2019
Scheduled End: 02/04/2019 12:15 AM
Assign To:

Notes: sh - cus cld said that there is a meter that is leaking has for a couple of days - does not know which apt the meter goes to - get correct meter # for leak

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 02/04/2019
Completed Hours:
Completed Notes: BUSTED METER, INSTALLED A NEW ONE @ 1:45 PM BY PAUL OLD READ 34.5 NEW METER # 85930189 @ 12095 ST RT 5 APT 4 (REPORTED BY NEIGHBOR) PAUL LEFT OFF BECAUSE NEIGHBOR SAID FRANK IS GONE.

Current Bill To / New Bill To

Current	New
Name: FRANCES LARSON	
Address 1: 12131 STATE ROUTE 5 # 3	
Address 2:	
ASHLAND KY, 41102-8023	, -

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	79915197	5/8"	14500646	38200	C	B RDS IN THOUSANDS

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 66672

GO TO ACCOUNT | RETURN TO LIST | TOOLS

General Information

Account: 102646-0 **Route:** Location 5 **Sequence:** 1
Service Address: PATRICIA LOUDIN CAPES
 8437 MEADE SPRINGER RD
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 02/13/2019 09:22 AM
Scheduled Start: 02/13/2019
Scheduled End: 02/13/2019 12:15 AM
Assign To:

Notes: CITY OF ASHLAND CALLED SAID THAT NEIGHBOR REPORTED A LEAK ON 8437 TAYLOR DRIVE, OFF OF MEADE SPRINGER. I WASN'T SURE IF WE WOULD SERVICE THIS.

Estimated Hours
Priority
Project
Department

Completion

Completed Date: 02/13/2019 10:29 AM
Completed Hours:
Completed Notes: SH - METER BUSTED METER WAS PICKING UP USAGE RD 01709 - BO

Current Bill To / New Bill To

Current	New
Name: PATRICIA/GEORGE CAPES	
Address 1: 8437 MEADE SPRINGER RD	
Address 2: ASHLAND KY, 41102-8907	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
	79903934	5/8"		170900	C	

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.



Work Order 66967

[GO TO ACCOUNT](#) | [RETURN TO LIST](#) | [TOOLS](#)

General Information

Account: 106998-0 **Route:** Location 2 **Sequence:** 1
Service Address: MATTRESS WAREHOUSE
 12540 US RT 60
 ASHLAND KY, 41102
Status: Completed
Printed: Yes

Task POSSIBLE LEAK

Contact:
Phone:
Entered Date: 03/14/2019 12:16 PM
Scheduled Start: 03/14/2019
Scheduled End: 03/14/2019 12:15 AM
Assign To:
Notes: sh - eric 606-928-3116 - said that water is coming out of meter - we had informed him of high usage

Estimated Hours
Priority
Project
Department





Completion

Completed Date: 03/14/2019 02:09 PM
Completed Hours:
 SH - METER WAS LEAKING ON OUR SIDE - MUST HAVE FROZE AND BUSTED AT ONE TIME - OLD RING
Completed Notes: 60.1 NEW M# 85930785 START 0 -PAUL CALEB WENT AND DE & REACTIVATED ACCOUNT SNR 52 38.38882 -82.71487

Current Bill To / New Bill To

Current	New
Name: MATTRESS WAREHOUSE	
Address 1: 11060 WINFIELD ROAD	
Address 2: WINFIELD WV, 25213-7987	

Meter Information

	Meter Serial Number	Size	ECR Identifier	Reading	Type	Location
   	83406854	5/8"		60100	C	

Charges

Charge	Quantity	Amount
<i>No results found.</i>		

Attachments

No attachments found.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 12

Responding Witness: Tim Webb

Q-12. Provide the policy or operating procedure in place that addresses the process and the length of time it should take for Cannonsburg District to fix a known or reported leaking water line.

A-12. Once a leak is discovered or reported, the site is marked for 811 location services to mark utilities with a typical clear site given in 48-72 hours. For a site that will require the presence of another utility, a schedule will be determined between the utilities involved. If site is clear, the repair will be made immediately.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 13

Responding Witness: Tim Webb

Q-13. Provide a general asset ledger identifying all new equipment purchased by Cannonsburg District from January 1, 2018, to the date of the issuance of this request used in water loss reduction efforts (e.g., listening devices, flow meters, metal detectors, hand tools, etc.).

A-13. Cannonsburg did not buy any new equipment for the purpose of water loss reduction during the 2018 calendar year.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 14

Responding Witness: Tim Webb

Q-14. Provide the type of training and the total amount of time Cannonsburg District's personnel have received for leak detection and repairs since January 1, 2015, to the date of the issuance of this request. List the personnel and dates of training.

A-14. Cannonsburg field staff received onsite training on portable flow monitor usage and sub-surface listening device usage in July 2017 by Tim Blanton with Kentucky Rural Water Association. Tim Webb received correlating device training in October of 2018 by Mark Underwood of CI Thornburg. All other training has been given by Tim Webb of Cannonsburg to field employees onsite at various times throughout the year.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 15

Responding Witness: Tim Webb

Q-15. Provide Cannonsburg District's policy that identifies errors that result in missed customer billings or under billing of customer accounts.

A-15. Meter reading software used by Cannonsburg Water will identify all customers with no reading or zero usage during the meter reading process. Once readings are imported into the billing system, the billing software runs the same identifier for customers with no reading or zero usage along with active accounts with no imported information. Meter reading software also reports high or low readings compared to customer profile usage.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 16

Responding Witness: Tim Webb

Q-16. Provide the date that the meters, through which Cannonsburg District purchases water from its supplier, were last tested and state how frequently those meters are tested. Provide a copy of the most recent meter test results.

A-16. Meter testing information is not provided to Cannonsburg from its supplier. Information has been requested in the past, but not supplied.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 17

Responding Witness: Tim Webb

Q-17. Provide the dates on which Cannonsburg District's master meters were last tested and the results of the tests.

A-17. Big Sandy Water District – Tested on 8/11/17

Low Flow – 100.1%

Medium Flow – 99.9%

High Flow – 100%

City of Greenup – Tested on 5/13/15

Low Flow – 98.5%

Medium Flow – 98.7%

High Flow – 99%

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 18

Responding Witness: Tim Webb

Q-18. Provide Cannonsburg District's procedure and schedule for testing its master meters and customer meters.

A-18. Cannonsburg tests customer meters upon request by a customer or if a meter seems to be faulty. Customer meters are currently in the process of being replaced as they reach 10 years of age or when a new account is started and the meter meets or exceeds the 10-year mark. Cannonsburg staff conducts all residential meter testing. Master meters and large customer meters are tested at this time by CI Thornburg. Currently, Cannonsburg is getting all meter testing up to testing standards and schedule.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 19

Responding Witness: Tim Webb

Q-19. State the number of meters that have been replaced by Cannonsburg District from January 1, 2018, to the date of the issuance of this request.

A-19. Cannonsburg has replaced 194 meters since January 1, 2018.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 20

Responding Witness: Tim Webb

Q-20. Provide the type of metering equipment, including brands and model numbers, Cannonsburg District uses.

A-20. Cannonsburg uses Sensus meters within its system. All meters $\frac{3}{4}$ " – 1" are Sensus iPERL and meters 2" and above are Sensus Omni meters. Radio reading devices are manufactured by Sensus as well. Drive by radios are Sensus 520R and tower read radios are 520M.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 21

Responding Witness: Tim Webb

Q-21. State whether Cannonsburg District utilizes supervisory control and data acquisition (SCADA) technology within its system.

A-21. Yes, Cannonsburg uses SCADATA software for its SCADA system.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 22

Responding Witness: Tim Webb

Q-22. State whether Cannonsburg District utilizes telemetry within its system.

A-22. Yes, Cannonsburg utilizes SCADATA telemetry software.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 23

Responding Witness: Tim Webb

Q-23. State whether all meters within Cannonsburg District's distribution area are read monthly. If all meters are not being read monthly, state the reasons why not.

A-23. All Cannonsburg meters are read monthly.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 24

Responding Witness: Tim Webb

Q-24. Provide a list of all training provided to Cannonsburg District's meter readers.

A-24. Training provided to Cannonsburg meter readers is given by Tim Webb, General Manager. This includes the tower read system that is read by office staff and the drive by read system that is read by field staff. Tim Webb was trained by Sensus staff and CI Thornburg.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 25

Responding Witness: Tim Webb

Q-25. For each of the utility's master meter zones, provide a monthly comparison of the master meter readings to the total customer meter readings for that zone for December 2018 and January 2019.

A-25. Unfortunately, this information is not available. Cannonsburg switched billing software vendors. Because of this switch, Cannonsburg's office personnel will need to individually review each customer's account and place it into the corresponding Master (Zone) Meter Zone. Some of Cannonsburg's existing 10 zone meters do not work. Other zone meters work erratically and are unreliable. Cannonsburg is planning to create 36 additional zones and replace all 10 existing zone meters. Thus, the zones will be much smaller. Once this is done, then the office staff will review each customer account and place it in the correct zone.

In the meantime, each morning Cannonsburg's General Manager, Tim Webb, reviews the usage report from each functioning zone meter. This report shows the usage for each hour of the day. He looks at the usage for 2:00 am each day. From his experience, he can tell whether there is an

abnormally high usage in a particular zone. If so, he takes appropriate action to investigate for a possible leak. Attached are copies of the daily reports for Zones 3 and 6 for April 16, 2019.

Single ID

Device ID

Search

Saved

«	Meter B807804U165 Rockdale - Zone 6 Ashland, KY	SmartPoint North American 2-Way Water 47	Lifecycle State Installed 07/17/2010	Administrative State Active	RIS 99.44%	Voltage 3.69 V 04/05/2019 7:57:12 AM	Latest Read 1269754 Gal 04/17/2019 11:30:00 AM	Latest Message 11:25:11 AM 04/17/2019
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About this Device Alerts Communications History Read Data

Actions

Chart

« Back Yesterday : April 16, 2019 Today »

Export: CSV

04/16/2019 04/16/2019 go

Intervals (EDT)	Analysis	Interval Status	Consumption (Gal)		
			STATUS	USAGE	READING
11:00 PM				139	1268582
10:00 PM				195	1268443
9:00 PM				196	1268248
8:00 PM				156	1268052
7:00 PM				164	1267896
6:00 PM				165	1267732
5:00 PM				134	1267567
4:00 PM				105	1267433
3:00 PM				105	1267328
2:00 PM				142	1267223
1:00 PM				112	1267081
12:00 PM				124	1266969
11:00 AM				107	1266845
10:00 AM				114	1266738
9:00 AM				132	1266624
8:00 AM				154	1266492
7:00 AM				146	1266338
6:00 AM				114	1266192
5:00 AM				57	1266078
4:00 AM				43	1266021
3:00 AM				38	1265978
2:00 AM				57	1265940
1:00 AM				72	1265883
12:00 AM				91	1265811

« Back Apr. 9 Apr. 10 Apr. 11 Apr. 12 Apr. 13 Apr. 14 Apr. 15 Apr. 16 Today Next »

Showing 1 - 24 of 24 |

Last Refresh: 04/17/2019 3:35:24 PM

«	Meter B808304U165 Tarpin Ridge - Zone 3 Ashland, KY	SmartPoint North American 2-Way Water 47	Lifecycle State Installed 11/13/2015	Administrative State Active	RIS 100%	Voltage 3.66 V 04/16/2019 8:53:56 PM	Latest Read 1665916 Gal 04/17/2019 1:00:00 PM	Latest Message 1:44:48 PM 04/17/2019
---	---	---	---	---------------------------------------	--------------------	---	--	---

About this Device Alerts Communications History Read Data

Actions

Chart

« Back Yesterday : April 16, 2019 Today » Export: CSV 04/16/2019 04/16/2019 go

Intervals (EDT)	Analysis	Interval Status	Consumption (Gal)		
			STATUS	USAGE	READING
11:00 PM				58	1665432
10:00 PM				70	1665374
9:00 PM				109	1665304
8:00 PM				78	1665195
7:00 PM				60	1665117
6:00 PM				47	1665057
5:00 PM				59	1665010
4:00 PM				46	1664951
3:00 PM				43	1664905
2:00 PM				66	1664862
1:00 PM				41	1664796
12:00 PM				32	1664755
11:00 AM				39	1664723
10:00 AM				64	1664684
9:00 AM				56	1664620
8:00 AM				69	1664564
7:00 AM				64	1664495
6:00 AM				26	1664431
5:00 AM				15	1664405
4:00 AM				11	1664390
3:00 AM				15	1664379
2:00 AM				15	1664364
1:00 AM				14	1664349
12:00 AM				26	1664335

« Back Apr. 9 Apr. 10 Apr. 11 Apr. 12 Apr. 13 Apr. 14 Apr. 15 Apr. 16 Today Next »

Showing 1 - 24 of 24 |

Last Refresh: 04/17/2019 3:23:50 PM

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 26

Responding Witness: Tim Webb

Q-26. State whether Cannonsburg District uses a system-wide hydraulic model to evaluate the pressure zones and flow in the utility's distribution system.

A-26. At this time Cannonsburg does not use a hydraulic model. Bell Engineering has been contracted to include this as part of the Phase I Water Loss Reduction Project.

CANNONBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 27

Responding Witness: Tim Webb

Q-27. Excluding the monthly activity reports filed in the case, provide copies of any written reports, memorandums, letters, emails, or minutes from January 1, 2018, to the date of the issuance of this request that details the efforts of the utility manager in reducing water loss as reported to the water utility's board of commissioners.

A-27. The General Manager provides a monthly water loss report to all commissioners during monthly board meetings. Water loss for that period is discussed and any explanation for the increase or decrease is provided. See attached exhibits. The Commissioners receive copies of the attached KRWA Water Use Report because it shows the actual monetary cost of the "Unknown Loss" (see Line 33 of the attached exhibits) for each month.

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: January Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$128,530.92	43,718,000
5	TOTAL PRODUCED AND PURCHASED		43,718,000
6	TOTAL COST	\$128,530.92	

WATER SOLD

7	Residential		13,165,000
8	Commercial		5,229,000
9	Industrial		947,000
10	Bulk Loading Stations		3,000
11	Wholesale		11,129,000
12	Other Sales (explain) Office, Shop, Sampling		32,000
13	TOTAL WATER SOLD		30,505,000 69.78%
14	TOTAL WATER NOT SOLD		13,213,000 30.22%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		0
16	Wastewater Treatment Plant		0
17	System Flushing		118,000 \$346.92
18	Fire Department Usage		3,000 \$8.82
19	DBP Flushing		0 \$0.00
20	TOTAL USAGE		121,000
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		29.95%

BREAKDOWN OF WATER LOST

22	Tank Overflows		0
23	Excavation Breaks		0
24	Repaired Line Breaks		1,317,000 \$3,871.98
25	Unknown Loss		11,775,000 26.93%
26	TOTAL WATER NOT SOLD OR USED		13,092,000
27	COST OF WATER NOT SOLD OR USED		\$38,490.48

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		11,775,000
29	% "Unknown Loss"		26.93%
30	Number of Days in Period		31
31	"Unknown Loss" per Day (Gallons per Day)		379,839
32	"Unknown Loss" per Minute (GPM)		263.78
33	"Unknown Loss" Cost for Month		\$34,618.50

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: February Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$96,837.72	32,938,000
5	TOTAL PRODUCED AND PURCHASED		32,938,000
6	TOTAL COST	\$96,837.72	

WATER SOLD			
7	Residential		10,177,000
8	Commercial		3,391,000
9	Industrial		1,087,000
10	Bulk Loading Stations		4,500
11	Wholesale		5,346,000
12	Other Sales (explain) Office, Shop, Sampling		32,000
13	TOTAL WATER SOLD	20,037,500	60.83%
14	TOTAL WATER NOT SOLD	12,900,500	39.17%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		0
16	Wastewater Treatment Plant		0
17	System Flushing		33,000
18	Fire Department Usage		4,000
19	DBP Flushing		60,000

20 **TOTAL USAGE** 97,000

21 **WATER LOSS PERCENTAGE FOR RATE PURPOSES** **38.87%**

BREAKDOWN OF WATER LOST

22	Tank Overflows		0
23	Excavation Breaks		0
24	Repaired Line Breaks		763,000
25	Unknown Loss	12,040,500	\$2,243.22

26 **TOTAL WATER NOT SOLD OR USED** **12,803,500**

27 **COST OF WATER NOT SOLD OR USED** **\$37,642.29**

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	12,040,500
29	% "Unknown Loss"	36.56%
30	Number of Days in Period	28
31	"Unknown Loss" per Day (Gallons per Day)	430,018
32	"Unknown Loss" per Minute (GPM)	298.62
33	"Unknown Loss" Cost for Month	\$35,399.07

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: March Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$94,550.40	32,160,000
5	TOTAL PRODUCED AND PURCHASED		32,160,000
6	TOTAL COST	\$94,550.40	

WATER SOLD			
7	Residential		11,276,000
8	Commercial		3,726,000
9	Industrial		1,141,000
10	Bulk Loading Stations		15,000
11	Wholesale		4,539,000
12	Other Sales (explain) Office, Shop, Sampling		31,000
13	TOTAL WATER SOLD		20,728,000 64.45%
14	TOTAL WATER NOT SOLD		11,432,000 35.55%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant	0
16	Wastewater Treatment Plant	0
17	System Flushing	157,000 \$461.58
18	Fire Department Usage	4,000 \$11.76
19	DBP Flushing	56,000 \$164.64
20	TOTAL USAGE	217,000
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES	34.87%

BREAKDOWN OF WATER LOST

22	Tank Overflows	0
23	Excavation Breaks	0
24	Repaired Line Breaks	409,000 \$1,202.46
25	Unknown Loss	10,806,000 33.60%
26	TOTAL WATER NOT SOLD OR USED	11,215,000
27	COST OF WATER NOT SOLD OR USED	\$32,972.10

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	10,806,000
29	% "Unknown Loss"	33.60%
30	Number of Days in Period	31
31	"Unknown Loss" per Day (Gallons per Day)	348,581
32	"Unknown Loss" per Minute (GPM)	242.07
33	"Unknown Loss" Cost for Month	\$31,769.64

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: April Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$86,832.90	29,535,000
5	TOTAL PRODUCED AND PURCHASED		29,535,000
6	TOTAL COST	\$86,832.90	

WATER SOLD

7	Residential		11,276,000
8	Commercial		4,091,000
9	Industrial		776,000
10	Bulk Loading Stations		11,000
11	Wholesale		4,516,000
12	Other Sales (explain) _____ Office, Shop, Sampling		41,000
13	TOTAL WATER SOLD		20,711,000 70.12%
14	TOTAL WATER NOT SOLD		8,824,000 29.88%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		0
16	Wastewater Treatment Plant		0
17	System Flushing		145,000 \$426.30
18	Fire Department Usage		11,000 \$32.34
19	DBP Flushing		141,000 \$414.54
20	TOTAL USAGE		297,000
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		28.87%

BREAKDOWN OF WATER LOST

22	Tank Overflows		0
23	Excavation Breaks		0
24	Repaired Line Breaks		820,000 \$2,410.80
25	Unknown Loss		7,707,000 26.09%
26	TOTAL WATER NOT SOLD OR USED		8,527,000
27	COST OF WATER NOT SOLD OR USED		\$25,069.38

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	7,707,000
29	% "Unknown Loss"	26.09%
30	Number of Days in Period	30
31	"Unknown Loss" per Day (Gallons per Day)	256,900
32	"Unknown Loss" per Minute (GPM)	178.40
33	"Unknown Loss" Cost for Month	\$22,658.58

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: May Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$102,397.26	34,829,000
5	TOTAL PRODUCED AND PURCHASED		34,829,000
6	TOTAL COST	\$102,397.26	

WATER SOLD

7	Residential		14,109,000
8	Commercial		4,769,000
9	Industrial		365,000
10	Bulk Loading Stations		32,000
11	Wholesale		7,042,000
12	Other Sales (explain) Office, Shop, Sampling		42,000
13	TOTAL WATER SOLD		26,359,000 75.68%
14	TOTAL WATER NOT SOLD		8,470,000 24.32%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		0
16	Wastewater Treatment Plant		0
17	System Flushing		110,000 \$323.40
18	Fire Department Usage		4,000 \$11.76
19	DBP Flushing		0
20	TOTAL USAGE		114,000
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		23.99%

BREAKDOWN OF WATER LOST

22	Tank Overflows		0
23	Excavation Breaks		0
24	Repaired Line Breaks		589,000 \$1,731.66
25	Unknown Loss		7,767,000 22.30%
26	TOTAL WATER NOT SOLD OR USED		8,356,000
27	COST OF WATER NOT SOLD OR USED		\$24,566.64

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		7,767,000
29	% "Unknown Loss"		22.30%
30	Number of Days in Period		31
31	"Unknown Loss" per Day (Gallons per Day)		250,548
32	"Unknown Loss" per Minute (GPM)		173.99
33	"Unknown Loss" Cost for Month		\$22,834.98

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: June Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$98,160.72	33,388,000
5	TOTAL PRODUCED AND PURCHASED		33,388,000
6	TOTAL COST	\$98,160.72	

WATER SOLD

7	Residential		14,109,000
8	Commercial		4,769,000
9	Industrial		365,000
10	Bulk Loading Stations		15,000
11	Wholesale		6,664,000
12	Other Sales (explain) <u>Office, Shop, Sampling</u>		42,000
13	TOTAL WATER SOLD		25,964,000 77.76%
14	TOTAL WATER NOT SOLD		7,424,000 22.24%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		0
16	Wastewater Treatment Plant		0
17	System Flushing		110,000 \$323.40
18	Fire Department Usage		3,000 \$8.82
19	DBP Flushing		0
20	TOTAL USAGE		113,000
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		21.90%

BREAKDOWN OF WATER LOST

22	Tank Overflows		0
23	Excavation Breaks		0
24	Repaired Line Breaks		399,000 \$1,173.06
25	Unknown Loss		6,912,000 20.70%
26	TOTAL WATER NOT SOLD OR USED		7,311,000
27	COST OF WATER NOT SOLD OR USED		\$21,494.34

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	6,912,000
29	% "Unknown Loss"	20.70%
30	Number of Days in Period	30
31	"Unknown Loss" per Day (Gallons per Day)	230,400
32	"Unknown Loss" per Minute (GPM)	160.00
33	"Unknown Loss" Cost for Month	\$20,321.28

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: July Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$96,320.28	32,762,000
5	TOTAL PRODUCED AND PURCHASED		32,762,000
6	TOTAL COST	\$96,320.28	

WATER SOLD

7	Residential		13,571,000
8	Commercial		4,066,000
9	Industrial		894,000
10	Bulk Loading Stations		15,000
11	Wholesale		5,900,000
12	Other Sales (explain) Office, Sampling, Shop		39,000
13	TOTAL WATER SOLD		24,485,000 74.74%
14	TOTAL WATER NOT SOLD		8,277,000 25.26%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		0
16	Wastewater Treatment Plant		0
17	System Flushing		113,000 \$332.22
18	Fire Department Usage		6,000 \$17.64
19	DBP Flushing		0
20	TOTAL USAGE		119,000
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		24.90%

BREAKDOWN OF WATER LOST

22	Tank Overflows		0
23	Excavation Breaks		0
24	Repaired Line Breaks		464,000 \$1,364.16
25	Unknown Loss		7,694,000 23.48%
26	TOTAL WATER NOT SOLD OR USED		8,158,000
27	COST OF WATER NOT SOLD OR USED		\$23,984.52

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"		7,694,000
29	% "Unknown Loss"		23.48%
30	Number of Days in Period		31
31	"Unknown Loss" per Day (Gallons per Day)		248,194
32	"Unknown Loss" per Minute (GPM)		172.36
33	"Unknown Loss" Cost for Month		\$22,620.36

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: August Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$87,744.30	29,845,000
5	TOTAL PRODUCED AND PURCHASED		29,845,000
6	TOTAL COST	\$87,744.30	

WATER SOLD

7	Residential	12,980,000	
8	Commercial	4,618,000	
9	Industrial	2,827,000	
10	Bulk Loading Stations	12,000	
11	Wholesale	3,854,000	
12	Other Sales (explain) Office, Shop, Sampling	35,000	
13	TOTAL WATER SOLD	24,326,000	81.51%
14	TOTAL WATER NOT SOLD	5,519,000	18.49%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant	0	
16	Wastewater Treatment Plant	0	
17	System Flushing	112,500	\$330.75
18	Fire Department Usage	3,000	\$8.82
19	DBP Flushing	0	
20	TOTAL USAGE	115,500	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		18.11%

BREAKDOWN OF WATER LOST

22	Tank Overflows	0	
23	Excavation Breaks	0	
24	Repaired Line Breaks	300,000	\$882.00
25	Unknown Loss	5,103,500	17.10%
26	TOTAL WATER NOT SOLD OR USED	5,403,500	
27	COST OF WATER NOT SOLD OR USED	\$15,886.29	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	5,103,500
29	% "Unknown Loss"	17.10%
30	Number of Days in Period	31
31	"Unknown Loss" per Day (Gallons per Day)	164,629
32	"Unknown Loss" per Minute (GPM)	114.33
33	"Unknown Loss" Cost for Month	\$15,004.29

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: September Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$79,879.80	27,170,000
5	TOTAL PRODUCED AND PURCHASED		27,170,000
6	TOTAL COST		\$79,879.80

WATER SOLD

7	Residential		11,764,000
8	Commercial		4,449,000
9	Industrial		2,459,000
10	Bulk Loading Stations		12,000
11	Wholesale		326,000
12	Other Sales (explain) Office, Shop, Sampling		41,000
13	TOTAL WATER SOLD		19,051,000 70.12%
14	TOTAL WATER NOT SOLD		8,119,000 29.88%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		0
16	Wastewater Treatment Plant		0
17	System Flushing		426,000 \$1,252.44
18	Fire Department Usage		4,000 \$11.76
19	DBP Flushing		60,000 \$176.40
20	TOTAL USAGE		490,000
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		28.08%

BREAKDOWN OF WATER LOST

22	Tank Overflows		0
23	Excavation Breaks		0
24	Repaired Line Breaks		148,000 \$435.12
25	Unknown Loss		7,481,000 27.53%
26	TOTAL WATER NOT SOLD OR USED		7,629,000
27	COST OF WATER NOT SOLD OR USED		\$22,429.26

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	7,481,000
29	% "Unknown Loss"	27.53%
30	Number of Days in Period	30
31	"Unknown Loss" per Day (Gallons per Day)	249,367
32	"Unknown Loss" per Minute (GPM)	173.17
33	"Unknown Loss" Cost for Month	\$21,994.14

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: October Year: 2018

1	PRODUCTION COST PER THOUSAND		\$0.00
2	PURCHASE COST PER THOUSAND		\$2.94

GALLONS

WATER PRODUCED or PURCHASED				
3	Water Produced	\$0.00	0	0%
4	Water Purchased	\$81,570.30	27,745,000	100%
5	TOTAL PRODUCED AND PURCHASED		27,745,000	
6	TOTAL COST	\$81,570.30		

WATER SOLD

7	Residential		11,926,000	
8	Commercial		4,107,000	
9	Industrial		1,574,000	
10	Bulk Loading Stations		10,000	
11	Wholesale		1,829,000	
12	Other Sales (explain) Office, Shop, Sampling		44,000	
13	TOTAL WATER SOLD		19,490,000	70.25%
14	TOTAL WATER NOT SOLD		8,255,000	29.75%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		0	
16	Wastewater Treatment Plant		0	
17	System Flushing		157,000	\$461.58
18	Fire Department Usage		4,500	\$13.23
19	DBP Flushing		24,000	\$70.56
20	TOTAL USAGE		185,500	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES			29.08%

BREAKDOWN OF WATER LOST

22	Tank Overflows		0	
23	Excavation Breaks		0	
24	Repaired Line Breaks		388,000	\$1,140.72
25	Unknown Loss		7,681,500	27.69%
26	TOTAL WATER NOT SOLD OR USED		8,069,500	
27	COST OF WATER NOT SOLD OR USED		\$23,724.33	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		7,681,500	
29	% "Unknown Loss"		27.69%	
30	Number of Days in Period		31	
31	"Unknown Loss" per Day (Gallons per Day)		247,790	
32	"Unknown Loss" per Minute (GPM)		172.08	
33	"Unknown Loss" Cost for Month		\$22,583.61	

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: November Year: 2018

1	PRODUCTION COST PER THOUSAND		\$0.00
2	PURCHASE COST PER THOUSAND		\$2.94

GALLONS

WATER PRODUCED or PURCHASED				
3	Water Produced	\$0.00	0	0%
4	Water Purchased	\$83,055.00	28,250,000	100%
5	TOTAL PRODUCED AND PURCHASED		28,250,000	
6	TOTAL COST	\$83,055.00		

WATER SOLD

7	Residential		12,312,000	
8	Commercial		4,076,000	
9	Industrial		1,263,000	
10	Bulk Loading Stations		2,000	
11	Wholesale		3,111,000	
12	Other Sales (explain) Office, shop, sampling		32,000	
13	TOTAL WATER SOLD		20,796,000	73.61%
14	TOTAL WATER NOT SOLD		7,454,000	26.39%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		0	
16	Wastewater Treatment Plant		0	
17	System Flushing		35,000	\$102.90
18	Fire Department Usage		3,000	\$8.82
19	DBP Flushing		164,000	\$482.16
20	TOTAL USAGE		202,000	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES			25.67%

BREAKDOWN OF WATER LOST

22	Tank Overflows		0	
23	Excavation Breaks		0	
24	Repaired Line Breaks		382,000	\$1,123.08
25	Unknown Loss		6,870,000	24.32%
26	TOTAL WATER NOT SOLD OR USED		7,252,000	
27	COST OF WATER NOT SOLD OR USED		\$21,320.88	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		6,870,000	
29	% "Unknown Loss"		24.32%	
30	Number of Days in Period		30	
31	"Unknown Loss" per Day (Gallons per Day)		229,000	
32	"Unknown Loss" per Minute (GPM)		159.03	
33	"Unknown Loss" Cost for Month		\$20,197.80	

Water Use Report

Water Utility: Cannonsburg Water District PWSID: KY0100064

For the Month of: December Year: 2018

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$2.94

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	0
4	Water Purchased	\$96,014.52	32,658,000
5	TOTAL PRODUCED AND PURCHASED		32,658,000
6	TOTAL COST	\$96,014.52	

WATER SOLD

7	Residential	11,968,000	
8	Commercial	3,934,000	
9	Industrial	1,676,000	
10	Bulk Loading Stations	6,500	
11	Wholesale	5,468,000	
12	Other Sales (explain) Office, Shop, Sampling	31,000	
13	TOTAL WATER SOLD	23,083,500	70.68%
14	TOTAL WATER NOT SOLD	9,574,500	29.32%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant	0	
16	Wastewater Treatment Plant	0	
17	System Flushing	65,000	\$191.10
18	Fire Department Usage	1,000	\$2.94
19	DBP Flushing		
20	TOTAL USAGE	66,000	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		29.12%

BREAKDOWN OF WATER LOST

22	Tank Overflows	0	
23	Excavation Breaks	0	
24	Repaired Line Breaks	384,000	\$1,128.96
25	Unknown Loss	9,124,500	27.94%
26	TOTAL WATER NOT SOLD OR USED	9,508,500	
27	COST OF WATER NOT SOLD OR USED	\$27,954.99	

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	9,124,500
29	% "Unknown Loss"	27.94%
30	Number of Days in Period	31
31	"Unknown Loss" per Day (Gallons per Day)	294,339
32	"Unknown Loss" per Minute (GPM)	204.40
33	"Unknown Loss" Cost for Month	\$26,826.03

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 28

Responding Witness: Tim Webb

Q-28. State whether Cannonsburg District's Board of Commissioners has placed any deadlines or target dates on Cannonsburg District for achieving a reduction in the amount of water loss.

A-28. Cannonsburg has worked continually on water loss. Currently, Cannonsburg has been able to achieve a 10% decrease in water loss from the end of calendar year 2017 to the end of calendar year 2018. The goal for the end of calendar year 2019 is 15% or less.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 29

Responding Witness: Tim Webb

Q-29. Provide a list of Cannonsburg District's management's five most critical projects, listed in order of priority, notwithstanding the opinions of the county judge/executive nor the opinions of the water district board of commissioners.

A-29. Cannonsburg has contracted with Bell Engineering to develop a Capital Improvement Plan. This plan will be established on the priorities of: (1) distribution zone metering; (2) service line and meter replacement; (3) pump station rehabilitation; (4) water main replacement; and (5) tank refurbishment.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 30

Responding Witness: Tim Webb

Q-30. Provide the total salary of the general manager/superintendent of Cannonsburg District for calendar years 2017 and 2018.

A-30. 2017 - \$59,315.64

2018 - \$60,339.12

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 31

Responding Witness: Tim Webb

Q-31. Provide a copy of the most recent signed employment contract between the general manager/superintendent and Cannonsburg District.

A-31. Cannonsburg does not have a written contract with the General Manager.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 32

Responding Witness: Tim Webb

Q-32. State the average age, with the high and low ages, of Cannonsburg District's distribution mains.

A-32. The average age of Cannonsburg's distribution mains is approximately 35 years old. The oldest lines within the system are 50 years old and the newest lines are 1 year old.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 33

Responding Witness: Tim Webb

Q-33. "Service connection," as defined by 807 KAR 5:066(6), means the line from the main to the customer's point of service, and shall include the pipefittings and valves necessary to make the connection. State the average age of Cannonsburg District's service connections.

A-33. The average age of a service connection for a Cannonsburg customer is 35 years old.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 34

Responding Witness: Tim Webb

Q-34. Explain if Cannonsburg District has mapped the entire distribution area for service connections to include mapping of its system, and identifying parts of its system with repeated breaks.

A-34. Cannonsburg is nearing completion of a system wide GIS map. Once complete, field crews will begin mapping all repairs made within the system along with a picture of the area, material used, and any other information needed for future reference.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 35

Responding Witness: Tim Webb

- Q-35. Provide a copy of Cannonsburg District's policy for dealing with apparent theft of water.**
- a. Provide documentation of any request by Cannonsburg District from January 1, 2017, to the date of the issuance of this request to the county attorney or commonwealth attorney's office for the prosecution of any person for the theft of water.**
 - b. State whether Cannonsburg District provided information related to a request for prosecution to the county attorney or commonwealth attorney's office for this time frame.**
 - c. State to which office Cannonsburg District provided the information, whether any action was taken on behalf of Cannonsburg District to prosecute any person for theft of water, and provide copies of the documentation and correspondence related to the prosecution.**
- A-35. Cannonsburg immediately terminates service to anyone who is receiving service through theft. When theft of service is discovered, Cannonsburg will alert the Boyd County Sheriff's Department and ask for assistance for the termination of this service. However, once service is terminated, the Boyd County Sheriff's Department will not issue a citation or recommend prosecution because they are of the thought that it cannot be proven who installed the device or who removed the lock to the residence or business

to use the service illegally. Cannonsburg has requested the Boyd County Sheriff's Office to reconsider its stance on this, but it has not changed its position.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 36

Responding Witness: Tim Webb

Q-36. State whether Cannonsburg District has conducted a comprehensive water audit, and if so, provide a copy of the most recent water audit.

A-36. Cannonsburg performed a water audit in mid-2017. During this time, field staff would walk the customer routes and document the address, meter number, and radio number. This was then compared to the information that was in the billing software by office personnel. Documents were not retained after they were checked by office staff. See the attached exhibit for the blank document used for the audit.

Cannonsburg Water District Water Audit

Address: _____

Area: _____

Meter Locked: Yes No

Meter Type: _____

Meter Size: _____

Meter ID on Meter: _____

Meter Reading on Meter: _____

Radio Type: _____

Radio ID: _____

Meter ID on Gun: _____

Meter Reading on Gun: _____

Additional Information:

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 37

Responding Witness: Tim Webb

- Q-37. Provide a copy of Cannonsburg District's procedure for monitoring and documenting withdrawals from Cannonsburg District's distribution system by fire departments. If no document exists, explain the process in detail.**
- a. For each fire department that made a withdrawal from Cannonsburg District's system from January 1, 2018, to the date of the issuance of this request, provide a copy of the fire department's estimate of its withdrawal.**
 - b. For any instance in which a fire department failed to provide an estimate of withdrawal from January 1, 2018, to the date of the issuance of this request, state the actions Cannonsburg District implemented to correct the failure.**
 - c. Provide the date on which Cannonsburg District last imposed a penalty on a fire department for the fire department's failure to submit a quarterly report on its water usage.**
 - d. Provide a sample copy of each type of report form that Cannonsburg District provides to fire departments.**
 - e. Provide the fourth quarter of the 2018 fire protection water usage by month, and describe the formula relied upon, identifying all variables and all assumptions, and workpapers utilized to produce this information.**

A-37.

- a. The Cannonsburg Fire Department is the only fire department within Cannonsburg's service area. Each month, the Cannonsburg Fire Department sends an email message to Cannonsburg stating the**

amount of water that it has withdrawn from Cannonsburg's water system during the previous month. Attached is a document which lists the amounts that Cannonsburg Fire Department reported for each month in 2018.

- b. Cannonsburg has never had to take any actions to obtain the water withdrawal information from the Cannonsburg Fire Department, except for an occasional friendly phone call reminder. Thus, Cannonsburg has never developed any formal, written procedures for enforcing the requirement that fire departments report its water usage to Cannonsburg.
- c. It has never had to impose a penalty on a fire department for failure to report its water usage.
- d. N/A. There is no official report form. Cannonsburg Fire Department simply sends an email message each month and states the volume of its water usage.
- e. See the attached list, which shows the fire department usage by month for the entire 2018 calendar year. Cannonsburg is unaware of the method that the Cannonsburg Fire Department uses to compute the amount of water withdrawn.

Cannonsburg Fire Department 2018

January	3,000
Febuary	4,000
March	4,000
April	11,000
May	4,000
June	3,000
July	6,000
August	3,000
September	4,000
October	4,000
November	3,000
December	1,000

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 38

Responding Witness: Tim Webb

Q-38. Explain how Cannonsburg District's accounts for flushing when determining water loss for its system.

A-38. System flushing is calculated by different methods depending on the location and flushing apparatus. Flushing done through a hydrant is calculated by using a flushing diffuser with attached pitot gauge. This gauge measures the flow in GPM. Flushing done on a line with no hydrant, but on a line where there is a zone meter, is measured through the zone meter. A line flushed that has no hydrant or zone meter is flushed through a blow off. To determine the rate of flow through the blow off, the flow is measured and compared to the chart contained in the Operator's Companion Handbook (see exhibit attached to the response to Q-2).

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 39

Responding Witness: Tim Webb

Q-39. Provide the type of flushing equipment that Cannonsburg District uses.

A-39. Cannonsburg uses fire hydrants with at diffuser and pitot gauge and water main installed blow offs.

CANNONSBURG WATER DISTRICT

CASE NO. 2014-00267

Response to Commission Staff's Third Request for Information

Question No. 40

Responding Witness: Tim Webb

Q-40. Provide Cannonsburg District's system flushing records, by month, from January 1, 2018, to the date of the issuance of this request, and describe the formula relied upon, identifying all variables, and all assumptions and workpapers utilized to produce this information.

A-40. Cannonsburg's flushing records are attached. System flushing is calculated by different methods depending on the location and flushing apparatus. Flushing done through a hydrant is calculated by using a flushing diffuser with attached pitot gauge. This gauge measures the flow in GPM. Flushing done on a line with no hydrant, but a line where there is a zone meter, is measured through the zone meter. A line flushed that has no hydrant or zone meter is flushed through a blow off. To determine the rate of flow through the blow off, the flow is measured and compared to the chart contained in the Operator's Companion Handbook (see exhibit attached to the response to Q-2).

Cannonsburg Water District Flushing Report

Name: Coleb

Month: September 2019

Date	Location	GPM	Start Time	Stop Time	Gallons
9/4	Happy's on 60	840	8:40	9:25	32,800
9/5	Industrial Rd & Culp	580	9:50	11:35	55,650
9/5	Culp Ch	580	12:55	1:05	5,300
9/7	Happy's on 60	840	10:10	11:05	46,200
9/11	Happy's on 60	840	9:55	11:35	44,000
9/13	Happy's on 60	840	11:55	12:50	46,800
9/17	Happy's on 60	840	10:05	10:25	16,800
9/24	Happy's on 60	840	9:10	10:40	76,600
9/25	Happy's on 60	850	10:50	12:00	59,500
9/25	Happy's on 60	850	10:00	10:15	11,250
10/1	Witness Church on 60	840	8:15	8:55	25,800
10/1	Happy's on 60	840	9:00	9:30	26,500

425,300

Cannonsburg Water District

Flushing Report

Name: Caleb

Month: October

Date	Location	GPM	Start Time	Stop Time	Gallons
10/1	Princess Church on 60	540	8:25	8:55	25,200
10/1	Happy's on 60	540	9:00	9:30	25,200
10/1	Happy's on 60	530	9:55	10:45	26,500
10/9	Happy's on 60	650	8:25	9:50	55,250

132,150

CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that Cannonsburg Water District's electronic filing of this Response is a true and accurate copy of the same document being filed in paper medium; that the electronic filing was transmitted to the Public Service Commission on April 18, 2019; that there are currently no parties that the Public Service Commission has excused from participation by electronic means in this proceeding; and that an original paper medium of this Response will be delivered to the Public Service Commission within two business days.


Damon R. Talley