

May 10, 2018

VIA HAND DELIVERY

Gwen R. Pinson, Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, KY 40602

RECEIVED

MAY 10 2018

PUBLIC SERVICE
COMMISSION

Re: IN THE MATTER OF: AN INVESTIGATION INTO THE FEASIBILITY OF
PROPOSED MERGER OF CAWOOD WATER DISTRICT AND BLACK MOUNTAIN
UTILITY DISTRICT PURSUANT TO KRS 74.361 - Case No. 2018-00068

Executive Director Pinson:

Please find enclosed and accept for filing in the above-styled matter an original and six (6) copies of Cawood Water District's Response to Commission Staff's Second Request for Information propounded April 26, 2018. Please return a file-stamped copy of this submission to me.

I appreciate your assistance with this matter, and please do not hesitate to contact me with any questions or concerns.

Respectfully submitted,



Mark David Goss

Enclosures

Executive Director Pinson
Case No. 2018-00068
May 10, 2018
Page 2 of 2

CERTIFICATE OF SERVICE

Pursuant to 807 KAR 5:001 Section 6, the undersigned certifies that, consistent with 807 KAR 5:001 Section 4(8), true and accurate copies of this letter and its enclosure have been placed into the custody and care of the United States Postal Service on May 10, 2018, for service upon the following:

Black Mountain Utility District
609 Four Mile Road
Baxter, KY 40806-8437



Mark David Goss

Counsel for Cawood Water District

**Cawood Water District
Case No. 2018-00068
Commission Staff's Second Request for Information**

1. Refer to Cawood District's response to Commission Staff's First Request for Information ("Staff's First Request"), Item 1.
 - a. Provide the appointment date for each Cawood District Commissioner listed.
 - b. Identify whether each Commissioner listed had New Commissioner Training as required by KRS 74.020.
 - (1) Provide the name of the organization that provided the New Commissioner Training, how many hours of training were received, as well as the date and location of the training.

Response:

a & b. Please see below.

Commissioner	Appointment Date	New Commission Training Information
Harold Sellers	Late 1990's ¹	Not Applicable ²
Tim Engle	February 17, 2011	Kentucky Public Service Commission; 12 hours; Aug. 24-25, 2011; Dale Hollow Lake, Burkesville, KY
Howard Farmer, Jr.	October 10, 2015	Kentucky Public Service Commission; 12 hours; Sept. 13-14, 2016; Prestonsburg, KY
Mike Thomas	August 15, 2017	Not yet completed (but will be in accordance with KRS 74.020(8)(b))
Tim Rice	January 16, 2018	Not yet completed (but will be in accordance with KRS 74.020(8)(b))

¹ Cawood Water District has been unable to determine the precise date on which Mr. Sellers was appointed a Commissioner, although it continues to review its records for this information. This Response will be updated if more detailed information is obtained.

² Upon information and belief, Mr. Sellers was appointed a Commissioner prior to the institution of the New Commissioner Training requirement, which appears to have been added to the referenced statute effective July 15, 2010.

**Cawood Water District
Case No. 2018-00068
Commission Staff's Second Request for Information**

2. Refer to Cawood District's response to Staff's First Request, Item 2.
 - a. For each employee listed, provide a chart that also contains the job title, the average hours worked per week, and a brief description of the job duties.
 - b. Cawood District asserts that in addition to wages and salaries, the full-time employees are also given a \$105.00 monthly stipend.
 - (1) Explain in full detail why Cawood District provides a monthly stipend.
 - (2) Explain in full detail why the stipend is only given to full-time employees and not part-time employees.
 - (3) Provide support for the monetary stipend amount of \$105.00.
 - (4) Provide the date Cawood District began providing the monthly stipend to the full-time employees.
 - c. Cawood District states that the clerk is paid \$10.00 per day to take deposits to the bank.
 - (1) Explain whether the clerk is a full-time or part-time employee.
 - (2) For the last twelve calendar months, provide the monthly amounts paid to the clerk for making deposits.
 - (3) Explain why the clerk is paid \$10.00 per day to take deposits to the bank.
 - (4) Provide support for the monetary amount of \$10.00 per day.
 - (5) Explain whether the clerk receives the \$105.00 per month stipend.

Witnesses: Ronald Williams, Jr. / Lana Pace

Response:

- a. Please see below. Please also note that Derek Middleton and Jeffrey Dunn, who were listed as employees in Cawood District's response to Staff's First Request, Item 2, are no longer employed by the District.

<u>Employee</u>	<u>Avg. hours weekly</u>	<u>Job title</u>
Alvin D. Brock	45-50	Plant Operator
Brandon Baker	45-50	Distribution Staff
Douglas R. Adkins	45-50	Dist. Staff/Plant Operator
Charles Tomlin Jr.	50-55	Certified Plant Operator/ Operations Manager
Lana Pace	40-45	Finance Officer
Roger W. Stewart	40-45	Plant Operator
Ronald Williams Jr.	50-55	General Manager
Ryan D. White	50-55	Distribution Manager
Tammy Goodin	35	Office Clerk
Willard Green	20-25	Distribution Staff

Plant Operators – employees in this job category have duties which include, but are not limited to, the following: treatment and processing of raw water, pumping of water after treatment process into holding tank (clear well), testing daily for proper usage of chemicals to ensure water quality, measuring daily rain fall totals, preparing daily reports for monthly operational summaries to the Division of Water, monitoring tank levels to maintain proper intake and discharge pressure, and upkeep, cleaning and daily maintenance of plant. The Operations Manager has similar duties but in a supervisory capacity.

Distribution Staff – employees in this job category have duties which include, but are not limited to, the following: pumping of water to each community tank, reading of each customer meter once per month for billing purposes, upkeep and maintenance of all water lines, inspection of all storage tanks and pump stations, scheduling yearly calibration of all master meters, changing out of all malfunctioning and out-of-date customer meters, replacement of pressure reducing valves when old or non-working, and responsible for weed, grass and brush clearing of all tanks and pump stations. The Distribution Manager has similar duties but in a supervisory capacity.

Witnesses: Ronald Williams, Jr. / Lana Pace

Finance Officer – this employee has duties which include, but are not limited to, the following: oversight of general business and financial operations, coordination of expense tracking and payment, working with auditor and regulatory agencies to ensure compliance, customer relations and customer accounts, and vendor relations.

General Manager – this employee has duties which include, but are not limited to, the following: operational oversight and responsibility for all facets of business, including reporting to the Board and regulatory agencies, purchasing, work orders, invoicing, scheduling, repair and maintenance, employee and customer relations, and compliance.

b(1)-(4).

Upon information and belief, Cawood District began paying a monthly stipend to its full-time employees approximately ten (10) years ago. The stipend began as \$30.00 per month per full-time employee as a form of extra compensation to assist employees in defraying general personal expenses. Later, as Cawood District began seeing a substantial decrease in its medical insurance costs due to a very positive loss experience, Cawood District's Board decided to increase the stipend by an additional \$75.00 per month per full-time employee as a way to "share" these savings. This is how the stipend reached the current gross amount of \$105.00 per month (taxes are deducted from this amount). Because part-time employees do not receive health insurance coverage through the District, and thus played no part in the health insurance expense savings achieved, only full-time employees are eligible for the stipend.

c.

- (1) The office clerk is a part-time employee.
- (2) Cawood District began paying the office clerk \$10/bank trip in August of 2017. Since that time, the office clerk has been paid a total of \$1,730.00 (gross), broken down monthly as follows:
 - August – \$110.00
 - September – \$200.00
 - October – \$200.00
 - November – \$250.00
 - December – \$200.00
 - January – \$180.00
 - February – \$200.00
 - March – \$230.00
 - April – \$160.00

Witnesses: Ronald Williams, Jr. / Lana Pace

- (3) The water plant office is located approximately seven (7) miles from the city of Harlan which has the nearest banking facility. The office clerk takes the deposit to the bank after the office closes because she is the bonded personnel authorized to handle the money. The \$10 payment per trip is intended to fairly compensate the office clerk for the necessary travel and her acceptance of responsibility for the funds.
- (4) Please see previous response.
- (5) The clerk does not receive the monthly stipend.

**Cawood Water District
Case No. 2018-00068
Commission Staff's Second Request for Information**

3. Provide copies of all meeting minutes where Cawood District discussed Harlan County Fiscal Court's vote to merge Cawood District with Black Mountain Utility District, including but not limited to the November 2017 board meeting.

Response:

Please see Page 2 through Page 5 of this Response. Notably, following discussions that occurred in and around November of 2017 between Cawood District's leadership and Harlan County Judge/Executive, Dan Mosley, a merger between Cawood District and Black Mountain Utility District appeared unlikely and the District's attention has primarily focused on improving its operations to best provide service to its customers.

CAWOOD WATER DISTRICT

MINUTES REGULAR MEETING

NOVEMBER 21, 2017

PRESENT: TIM ENGLE, HOWARD FARMER, MIKE THOMAS, HAROLD SELLERS, LANA PACE, CHRIS MCCLAIN, KEN TAYLOR, JUDGE DAN MOSLEY, DR. DAMAS, TIM RICE, RICK BROCK, JUSTIN SMITH (TWAY AND FARMER'S MILL REPRESENTATIVES)

OPENING: MEETING CALLED TO ORDER BY HOWARD FARMER. QUORUM PRESENT

CITIZENS COMMENTS: LENGTHY DISCUSSION HELD OVER THE PEOPLE'S DISSATISFACTION WITH THE DISTRICT'S PERFORMANCE. SEVERAL COMPLAINTS DIRECTED STRAIGHT TO CHRIS MCCLAIN REGARDING PROMISES HE HAD MADE TO DO SPECIFIC THINGS BUT NEVER FOLLOWED THROUGH ON: HIS FAILURE TO KEEP THINGS ON HAND, ITEMS NEEDED DURING LEAKS EX. FLOW METER, ON FAILING TO SEND OUT REPAIRMEN TO SITES AFTER TELLING SOMEONE HE WILL, FAILURE TO ORDER PARTS TO FIX A LEAK EVEN THOUGH THEY HAD BEEN OUT OF WATER FOR OVER A WEEK, FIXING A LEAK THEN HAVNG TO COME RIGHT BACK AND REPAIR THE SAME PLACE. JUDGE QUESTIONED IF MR. MCCLAIN HAD TOLD MS. PACE THE JUDGE HAD ASKED HIM TO PASS OUT THE BOTTLED WATER RATHER THAN HELP WORK ON LEAK. MR. MCCLAIN ADMITTED HE HAD BUT HAD MEANT TO SAY DAVID MCGILL. JUDGE ALSO QUESTIONED MR MCCLAIN ON HIS FAILURE TO NOTIFY EVERYONE HE'S SUPPOSED TO WHEN HAVING LEAKS. MS PACE QUESTIONED MR. MCCLAIN IN FRONT OF EVERYONE AS WITNESS TO NAME ONE TIME HE HAD REQUESTED AN ITEM THAT WAS NEEDED AND IT WAS REFUSED. MR MCCLAIN STATED THAT NO SHE HAD ALWAYS AUTHORIZED HIM TO PURCHASE WHAT THEY NEEDED.THE PUBLIC STATED THAT WAS WHAT HAD ALWAYS BEEN TOLD TO THEM AND THE JUDGE TOO.

MINUTES: MOTION MADE BY TIM ENGLE, SECONDED BY MIKE THOMAS, TO APPROVE THE MINUTES FOR OCTOBER 2017. VOTE: HAROLD SELLERS –YEA; HOWARD FARMER- YEA.

INVOICES: MOTION MADE BY MIKE THOMAS, SECONDED BY TIM ENGLE, TO APPROVE PAYMENT OF ALL INVOICES SUBMITTED. VOTE: HAROLD SELLERS –YEA; HOWARD FARMER – YEA.

PROJECT UPDATES: KEN

- NALLY AND HAMLITON – HASN'T BEEN BACK TO TALK WITH THEM YET
- SPOKE TO JUDGE ABOUT TWAY. HE SAID COUNTY ENGINEER WILL HELP WITH LAND INFORMATION

REPORTABLE PURCHASES:

CHRIS MCCLAIN: SUBMITTED THE WATER LOSS & REPORTS

BOARD DISCUSSED:

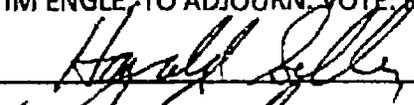
- **NEED FOR TOOLS TO WORK WITH DURING LEAKS:**
 - CONCRETE SAW
 - OUR JACK HAMMER NOT WORKING IT'S SOAKING IN OIL NOW
 - FLOW METER
 - HEARING DEVICE
 - GENERATOR FIXED
- **TRUCK MAYBE ON SURPLUS, JUDGE GOING THURSDAY WILL LOOK SEE WHAT MIGHT BE AVAILABLE**
- **MS PACE AND KEN TAYLOR EXPLAINED THEY HAD RECEIVED THE PSC FINDINGS ON THE PSC RATE STUDY. DISCUSSED THE FINDINGS AND HOW MUCH IT MEANT ON REDUCING THE PROJECTED INCOME. MOTION MADE BY TIM ENGLE, SECONDED BY HAROLD SELLERS, TO ACCEPT THEIR FINDINGS AND GO WITH THEIR RATES. VOTE: MIKE THOMAS -YEA; HOWARD FARMER -YEA.**

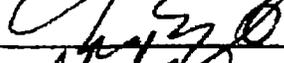
MOTION MADE BY MIKE THOMAS, SECONDED BY TIM ENGLE, FOR THE BOARD TO GO INTO EXECUTIVE SESSION. VOTE: HAROLD SELLERS- YEA; HOWARD FARMER - YEA.

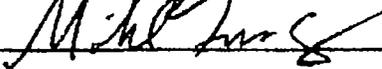
BOARD RETURNED TO REGULAR SESSION REPORTING NO ACTION HAD BEEN TAKEN. MOTION MADE BY HOWARD FARMER, SECONDED BY TIM ENGLE, TO REOPEN REGULAR MEETING.

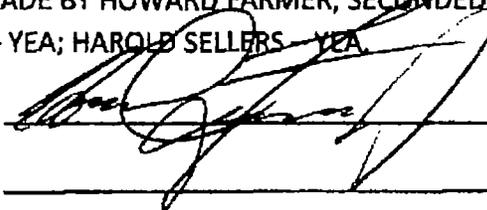
MR. FARMER NOTIFIED CHRIS MCCLAIN THAT THE BOARD WAS VERY DISSATISFIED OVER HOW HE HAD BEEN HANDLING HIS JOB DUTIES AND VERY UPSET OVER ALL THE COMPLAINTS AND ALLEGATIONS LODGED TONIGHT, IT LEFT THEM WITH NO OPTION BUT TO SUSPEND HIM WITH PAY IMMEDIATELY UNTIL FURTHER INVESTIGATION COULD BE MADE. HE WAS THEN PRESENTED WITH A LETTER OF SUSPENSION.

THERE BEING NO FURTHER BUSINESS, MOTION MADE BY HOWARD FARMER, SECONDED BY TIM ENGLE, TO ADJOURN. VOTE: MIKE THOMAS - YEA; HAROLD SELLERS - YEA.









CAWOOD WATER DISTRICT
MINUTES REGULAR MEETING
FEB 28, 2018

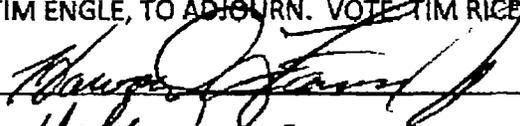
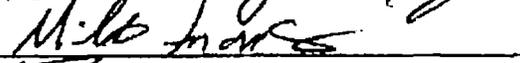
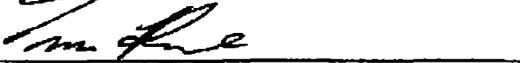
PRESENT: TIM ENGLE, TIM RICE, HOWARD FARMER, MIKE THOMAS, HAROLD SELLERS, LANA PACE, RONNIE WILLIAMS

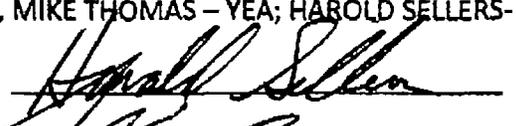
OPENING: MEETING CALLED TO ORDER BY HOWARD FARMER. QUORUM PRESENT

MEETING CALLED TO DISCUSS RESPOND TO PSC INVESTIGATION OF FEASIBILITY OF MERGER OF CAWOOD WATER DISTRICT WITH BLACK MT. UTILITY DISTRICT. CASE# 2018-00068

IDEAS DISCUSSED ON WAYS TO ANSWER THE PSC QUESTIONS. ESPECIALLY THE QUESTION CONCERNING WHY WE DID NOT MERGE AT THE TIME THE HARLAN COUNTY FISCAL COURT VOTED. AGREED THAT WAS THE PLACE WHERE THE DISTRICT HAD AN OPPORTUNITY TO EXPRESS IT'S CONCERN'S AND OBJECTIONS AND STATE REASONS WHY. SUGGESTED EACH BOARD MEMBER WRITE OUT SOME IDEAS AND OPINIONS AND THEY WOULD MEET AGAIN FRIDAY AT THE COUNTY JUDGES'S OFFICE TO DRAW UP THE RESPONSE TO FILE. MS. PACE PROVIDED INFORMATION REGARDING BMUD'S LAST FINANCIAL FILINGS AND ITS STANDING IF NEEDED DURING THESE PROCEEDINGS SHE HAD AVAILABLE.

THERE BEING NO FURTHER BUSINESS, MOTION MADE BY HOWARD FARMER, SECONDED BY TIM ENGLE, TO ADJOURN. VOTE TIM RICE - YEA, MIKE THOMAS - YEA; HAROLD SELLERS- YEA.




CAWOOD WATER DISTRICT
MINUTES REGULAR MEETING
MARCH 7, 2018

PRESENT: TIM ENGLE, TIM RICE, HOWARD FARMER, MIKE THOMAS, HAROLD SELLERS

OPENING: MEETING CALLED TO ORDER BY HOWARD FARMER. QUORUM PRESENT

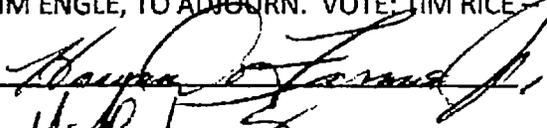
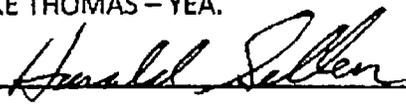
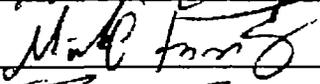
MEETING CALLED TO DISCUSS RESPOND TO PSC INVESTIGATION OF FEASIBILITY OF MERGER OF CAWOOD WATER DISTRICT WITH BLACK MT. UTILITY DISTRICT. CASE# 2018-00068 AND THE DISTRICT'S RECENT REQUEST TO PSC FOR AN EXTENSION.

THE DISTRICT HAS BEEN NOTIFIED BY PHONE CALL THAT THE EXTENSION REQUEST MUST BE FILED BY AN ATTORNEY INTO THEIR RECORDS. TIM RICE HAS SPOKEN WITH MARK DAVID GOSS ABOUT THE SITUATION AND MR. GOSS HAS AGREED TO TAKE THE CASE IF THE DISTRICT SO DESIRES.

MOTION MADE BY MIKE THOMAS, SECONDED BY TIM ENGLE, TO HIRE MARK DAVID GOSS AS ATTORNEY TO REPRESENT CAWOOD WATER DISTRICT IN THIS CASE. VOTE: HOWARD – YEA; TIM RICE – YEA; HAROLD SELLERS – YEA.

MR. RICE WILL CONTACT MR. GOSS AND SEE WHAT IS NEEDED TO GET STARTED.

THERE BEING NO FURTHER BUSINESS, MOTION MADE BY HOWARD FARMER, SECONDED BY TIM ENGLE, TO ADJOURN. VOTE: TIM RICE – YEA, MIKE THOMAS – YEA.

 _____	 _____
 _____	_____
 _____	_____

**Cawood Water District
Case No. 2018-00068
Commission Staff's Second Request for Information**

4. Refer to Cawood District's response to Staff's First Request, Item 6.
 - a. Provide a detailed explanation of the extensive relevant experience that Mr. Williams has as Cawood District's new plant manager which includes, but is not limited to, any prior employment relevant to his new role.
 - b. Cawood District states that for several years its billing has been performed off-site by a respected local accountant, David Burkhart, but starting April 1, 2018, the billing will be brought in-house and performed by Mr. Burkhart at Cawood District's business office.
 - (1) Explain whether Mr. Burkhart will be an employee of Cawood District, or if the only difference will be the location that Mr. Burkhart performs the accounting services.
 - (2) Explain how bringing billing in-house will affect the cost of billing. For example, will billing costs be reduced, increased, or stay the same?
 - (3) Provide any benefits this change will have upon Cawood District.
 - c. Cawood District asserts that it has reduced its monthly water loss for February 2018 to 15 percent, which is a substantial reduction from the 40-50 percent water loss that Cawood District has experienced for the past several years.
 - (1) Provide Cawood District's monthly water loss percentage from January 2017- April 2018.
 - (2) Explain in full detail what efforts Cawood District used to substantially reduce its water loss to 15 percent.
 - (3) Explain why Cawood District did not previously make these efforts.

Response:

- a. A resumé detailing Mr. Williams' education and experience is provided at Page 4 through Page 6 of this Response. Mr. Williams' relevant training and expertise, though not directly in water district management, is evidenced from his extensive background in employee and project management, especially in the areas of maintenance and repairs. Since accepting the position, the Cawood District Board has been exceedingly pleased with Mr. Williams' work ethic and ability to create and cultivate a positive and effective work environment. Mr. Williams has also worked side-by-side with employees on nearly every job, as well as encouraged better communication between employees and District leadership. There seems to have been an immediate positive response.
- b.
 - (1) Mr. Burkhart will remain an independent contractor but he will perform services at Cawood District's offices.
 - (2) Billing costs are not expected to be directly impacted by Mr. Burkhart's relocation to Cawood District's business office. However, Mr. Burkhart's presence in the office and proximity to the operations of the District are expected to assist in streamlining processes and ensuring the most accurate and timely billing practices. To be clear, Mr. Burkhart accomplishes all billing activity for the District: he records all customer cash receipts; he makes any necessary adjustments to the customers' accounts for leaks, incorrect readings, etc.; he reviews readings and flags any possible errors or discrepancies; he provides all customer history information as needed; and he calculates and applies any interest that may be due on security deposits and any refunds due at time of account closing. Basically, Mr. Burkhart serves a pivotal role in any activity involving customer accounts. Mr. Burkhart does all this for an average of under \$1,000.00 per month, which is an amount Cawood District believes is entirely reasonable for the work performed.
 - (3) Please see Response to Item 4(b)(2), above. Mr. Burkhart will have improved access to all relevant original District records; additionally, by being on-site, Mr. Burkhart will be better available to address billing or account questions that may arise both internally and from the public.

c.

- (1) Please see Page 7 through Page 22 of this response.
- (2) Please see Cawood District's Response to Commission Staff's First Request for Information, Item No. 6. Cawood District has taken numerous efforts to reduce its water loss, including the acquisition of new equipment (listening device, flow meter, metal detector, hand tools, etc.), an increased emphasis on responsiveness and being proactive, and requiring accountability of all employees. Additionally, Cawood District has adjusted its employee scheduling, better delineated employee responsibilities, and vastly improved the work environment through implementing new leadership. Finally, Cawood District has recently worked with the Kentucky Rural Water Association (KRWA) to improve the District's operations. The KRWA has visited Cawood District several times and stayed several days each time, working and training District employees in different areas, including:
 - determining line leaks;
 - examining, troubleshooting, and replacing meters;
 - utilization of line valves, which can be used during a leak investigation and repair to reduce losses;
 - methodology and best practices on repairs, installation, and upkeep of various the parts of the distribution system;
 - methodology and best practices in the laboratory and plant upkeep.
- (3) Cawood District's Board has continually attempted to address issues with water loss, and the topic has been a regular point of discussion for an extended period of time. Cawood District's previous manager was regularly questioned regarding these issues, and the Board was informed that all appropriate efforts were being taken (including walking of lines, repairing leaks, replacement of faulty meters, etc.) to reduce the losses. However, the Board came to learn in or around November of 2017 that not all information reported to it was accurate, and it began questioning why more significant improvement was not achieved following the repair of leaks. The Board has since made significant changes to the leadership and operations of the District and intends to continue efforts to achieve a water loss rate as close to zero as possible.

9/1/2017

Ronald Z. Williams Jr.

PO Box 72

Dayhoit, KY 40824

Ph: [REDACTED]

Education

James A. Cawood High School

Graduated 1986

Southeast Community College

1 ½ Years

Mine Foreman Training

1992

Mine Electrician Training

1997

Troxler Training (nuclear compaction machine)

1996

Impoundment Inspector and Instructor

1996

State Hoist Operations Training

1994

MIP (Ministerial Internship Program)

1994

Experience

Shamrock Fuels

Dayhoit, Ky.

General Labor, Repairman helper, Front end loader operator.

John Deere 644, John Deere 844

1986-1987

R. Felosi Trucking

Gulston, Ky.

Water truck driver, Mechanic helper, Coal haul

Mack 600, Mack 800

1987-1988

Tom Coal Co.

Evarts, Ky.

Heavy Equipment Operator

John Deere Front End Loader – 644, 744, 844

John Deere Dozer – 450, 750

John Deere Excavator – 790

Pushed coal to feed prep plant, pushed slate on impoundment, pushed coal for unit trains

1988-1989

Great Western Coal Co.

Coalgood, Ky.

Prep plant operator, repairman helper, welder, heavy equipment operator

Mig and stick welders

Cat 966, 988, 992 Front end loader

Cat D-7, D-8, D-9 Dozer

John Deere 310, 410 Backhoe

Shift Foreman

1989-1992

Left Fork Mining

Arjay, Ky.

Prep Plant and Impoundment Superintendent (12 man crew)

Responsible for coal run of 800 tons per hour prep plant

Impoundment (water quality of settling ponds, compaction specs that met approved state plans)

Unit train loadout (trains to be loaded at any short notice, evenings, weekends, etc.)

Daily pre-shift inspections

Daily coal production reports

Daily repair reports
Coal production and repair scheduling for men
Budget reports each month
1992-1997

RB Coal Co.

Pathfork, KY
3rd Shift repair foreman for 1000 tons per hour prep plant (4 man crew)
Completion of a list of repairs each night to be completed left by other foremen
Rebuilding Warman, Gould, Able and other style pumps
Daily repair reports (how many hours per job with job code)
Time sheet and scheduling hours for men
1997-1999

Altech Mining

Delphia, KY
Hoist wheel operator
Scoop operator
Repairman (electrical and welding)
Car operator
1999-2000

Discount Carpet

Tremont, KY
Crew leader
Collections
2000-2007

Surplus Building Supply

Baxter, KY
Manager
Employed (4) with annual sales in excess of \$250,000
Store closed due to economic downturn related to coal market conditions.
2009 – 2011

Partin Rental Company

Maintenance Supervisor
Responsible for: 100+ properties, communications with tenants, supervision of maintenance employees, purchasing material, and ensuring all repairs were completed in a timely fashion.
2011 - Present

Monthly Water Use Report

Water Utility: cawood water

PWSID: 480565

Item 4
Page 7 of 22
Witness: Ronald Williams, Jr.

For the Month of: jan

Year: 2017

1 PRODUCTION COST PER THOUSAND (insert cost)
 2 PURCHASE COST PER THOUSAND \$2.75

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced		12,144,389
4	Water Purchased	\$0.00	0
5	TOTAL PRODUCED AND PURCHASED		12,144,389
6	TOTAL COST #VALUE!		

100%
0%

WATER SOLD			
7	Residential		5,700,867
8	Commercial		0
9	Industrial		0
10	Bulk Loading Stations		0
11	Wholesale		0
12	Other Sales (explain)		0
13	TOTAL WATER SOLD		5,700,867 46.94%
14	TOTAL WATER NOT SOLD		6,443,522 53.06%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		245,000
16	Wastewater Treatment Plant		0
17	System Flushing		325,000
18	Fire Department Usage		350
19	Other Usage (explain)		0

20 TOTAL USAGE 570,350

21 WATER LOSS PERCENTAGE FOR RATE PURPOSES 48.36%

BREAKDOWN OF WATER LOST

22	Tank Overflows		0
23	Excavation Breaks		0
24	Repaired Line Breaks		1,206,113
25	Unknown Loss		4,667,059

38.43%

26 TOTAL WATER NOT SOLD OR USED 5,873,172
 27 COST OF WATER NOT SOLD OR USED #VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"		4,667,059
29	% "Unknown Loss"		38.43%
30	Number of Days in Period		31
31	"Unknown Loss" per Day (Gallons per Day)		150,550
32	"Unknown Loss" per Minute (GPM)		104.55
33	"Unknown Loss" Cost for Month		#VALUE!

Monthly Water Use Report

Water Utility: cawood water

PWSID: ky0480585

Item 4
Page 8 of 22
Witness: Ronald Williams, Jr.

For the Month of: Feb

Year: 2017

1 PRODUCTION COST PER THOUSAND (insert cost)
 2 PURCHASE COST PER THOUSAND \$2.75

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced		11,675,333
4	Water Purchased	\$0.00	0%
5	TOTAL PRODUCED AND PURCHASED		11,675,333
6	TOTAL COST #VALUE!		

WATER SOLD			
7	Residential		4,788,387
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD		4,788,387 41.37%
14	TOTAL WATER NOT SOLD		6,786,946 58.63%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant		150,000
16	Wastewater Treatment Plant		
17	System Flushing		420,985
18	Fire Department Usage		150
19	Other Usage (explain)		
20	TOTAL USAGE		571,135
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		53.70%

BREAKDOWN OF WATER LOST			
22	Tank Overflows		
23	Excavation Breaks		
24	Repaired Line Breaks		580,355
25	Unknown Loss		5,635,456
26	TOTAL WATER NOT SOLD OR USED		6,215,811
27	COST OF WATER NOT SOLD OR USED		#VALUE!

48.69%

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"		5,635,456
29	% "Unknown Loss"		48.89%
30	Number of Days in Period		28
31	"Unknown Loss" per Day (Gallons per Day)		201,268
32	"Unknown Loss" per Minute (GPM)		139.77
33	"Unknown Loss" Cost for Month		#VALUE!

Monthly Water Use Report

Water Utility: Cawood Water District

PWSID: Ky0480585

Witness: Ronald Williams, Jr.

For the Month of: march

Year: 2017

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	12,253,852	100.0%
4	Water Purchased		0.0%
5	TOTAL PRODUCED AND PURCHASED	12,253,852	
6	TOTAL COST #VALUE!		
WATER SOLD			
7	Residential	6,064,480	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	6,064,480	49.5%
14	TOTAL WATER NOT SOLD	6,189,392	50.5%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant	455,000	
16	Wastewater Treatment Plant		
17	System Flushing	32,974	#VALUE!
18	Fire Department Usage	0	
19	DBP Flushing DBP Maintenance	0	

20 **TOTAL USAGE** 487,974
 21 **WATER LOSS PERCENTAGE FOR RATE PURPOSES** 46.5%

BREAKDOWN OF WATER LOST

22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	0	
24	Repaired Line Breaks	1,287,675	#VALUE!
25	Unknown Loss	4,413,743	#VALUE!

26 **TOTAL WATER NOT SOLD OR USED** 5,701,418
 27 **COST OF WATER NOT SOLD OR USED** #VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"	4,413,743	
29	% "Unknown Loss"	36.0%	
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	147,125	
32	"Unknown Loss" per Minute (GPM)	102.17	
33	"Unknown Loss" Cost for Month	#VALUE!	

36.0%

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: Ky0480565

For the Month of: April Year: 2017

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	12,253,852	100.0%
4	Water Purchased		0.0%
5	TOTAL PRODUCED AND PURCHASED	12,253,852	
6	TOTAL COST #VALUE!		

WATER SOLD			
7	Residential	6,064,460	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	6,064,460	49.5%
14	TOTAL WATER NOT SOLD	6,189,392	50.5%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	455,000	
16	Wastewater Treatment Plant		
17	System Flushing	32,974	#VALUE!
18	Fire Department Usage	0	
19	DBP Flushing DBP Maintenance	0	
20	TOTAL USAGE	487,974	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		46.5%

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	0	
24	Repaired Line Breaks	1,287,675	#VALUE!
25	Unknown Loss	4,413,743	36.0%
26	TOTAL WATER NOT SOLD OR USED	5,701,418	
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	4,413,743	
29	% "Unknown Loss"	36.0%	
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	147,125	
32	"Unknown Loss" per Minute (GPM)	102.17	
33	"Unknown Loss" Cost for Month		#VALUE!

Monthly Water Use Report

Water Utility: Cawood Water District

PWSID: ky0480568

For the Month of: *may*
~~oct~~

Year: 2017

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	12,787,433	100.0%
4	Water Purchased	0	0.0%
5	TOTAL PRODUCED AND PURCHASED	12,787,433	
6	TOTAL COST #VALUE!		
WATER SOLD			
7	Residential	7,029,301	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	7,029,301	55.0%
14	TOTAL WATER NOT SOLD	5,758,132	45.0%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant	175,000	
16	Wastewater Treatment Plant		
17	System Flushing	133,107	#VALUE!
18	Fire Department Usage	0	
19	DBP Flushing DBP Maintenance	8,157	#VALUE!
20	TOTAL USAGE	318,264	

21 **WATER LOSS PERCENTAGE FOR RATE PURPOSES** 42.6%

BREAKDOWN OF WATER LOST

22	Tank Overflows (other than for DBP maintenance)	100,000	#VALUE!
23	Excavation Breaks	40,459	#VALUE!
24	Repaired Line Breaks	37,369	#VALUE!
25	Unknown Loss	5,264,040	41.2%

26 **TOTAL WATER NOT SOLD OR USED** 5,441,868
 27 **COST OF WATER NOT SOLD OR USED** #VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	5,264,040	
29	% "Unknown Loss"	41.2%	
30	Number of Days In Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	169,808	
32	"Unknown Loss" per Minute (GPM)	117.92	
33	"Unknown Loss" Cost for Month	#VALUE!	

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: ky0480566

For the Month of: June Year: 2017

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	12,787,433	100.0%
4	Water Purchased	0	0.0%
5	TOTAL PRODUCED AND PURCHASED	12,787,433	
6	TOTAL COST #VALUE!		

WATER SOLD			
7	Residential	7,029,301	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	7,029,301	55.0%
14	TOTAL WATER NOT SOLD	5,758,132	45.0%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	175,000	
16	Wastewater Treatment Plant		
17	System Flushing	45,411	#VALUE!
18	Fire Department Usage	0	
19	DBP Flushing DBP Maintenance	52,356	#VALUE!
20	TOTAL USAGE	272,767	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		42.9%

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)	100,000	#VALUE!
23	Excavation Breaks	0	
24	Repaired Line Breaks	183,193	#VALUE!
25	Unknown Loss	5,202,172	#VALUE!
26	TOTAL WATER NOT SOLD OR USED	5,485,365	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss"	5,202,172
29	% "Unknown Loss"	40.7%
30	Number of Days in Period	31
31	"Unknown Loss" per Day (Gallons per Day)	167,812
32	"Unknown Loss" per Minute (GPM)	116.54
33	"Unknown Loss" Cost for Month	#VALUE!

40.7%

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: ky0480565

For the Month of: July Year: 2017

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	13,172,681	88.5%
4	Water Purchased	1,720,000	11.5%
5	TOTAL PRODUCED AND PURCHASED	14,892,681	
6	TOTAL COST #VALUE!		

WATER SOLD			
7	Residential	6,987,336	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	6,987,336	46.9%
14	TOTAL WATER NOT SOLD	7,905,345	53.1%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	125,000	
16	Wastewater Treatment Plant		
17	System Flushing	51,827	#VALUE!
18	Fire Department Usage	0	
19	DBP Flushing DBP Maintenance	0	
20	TOTAL USAGE	176,827	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		51.9%

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)	 	
23	Excavation Breaks	0	
24	Repaired Line Breaks	2,278,332	#VALUE!
25	Unknown Loss	5,450,187	
26	TOTAL WATER NOT SOLD OR USED	7,728,518	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	5,450,187	
29	% "Unknown Loss"	36.6%	
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	176,812	
32	"Unknown Loss" per Minute (GPM)	122.09	
33	"Unknown Loss" Cost for Month	#VALUE!	

38.6%

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: ky0480565

For the Month of: aug Year: 2017

1	PRODUCTION COST PER THOUSAND	\$2.50
2	PURCHASE COST PER THOUSAND	\$0.00

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$32,930.31	13,172,124
4	Water Purchased	\$0.00	0
5	TOTAL PRODUCED AND PURCHASED		13,172,124
6	TOTAL COST	\$32,930.31	

WATER SOLD

7	Residential	6,827,854
8	Commercial	0
9	Industrial	0
10	Bulk Loading Stations	0
11	Wholesale	0
12	Other Sales (explain)	0

13	TOTAL WATER SOLD	6,827,854	51.8%
14	TOTAL WATER NOT SOLD	6,344,270	48.2%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant	42,580
16	Wastewater Treatment Plant	0
17	System Flushing	112,286
18	Fire Department Usage	0
19	DBP Flushing DBP Maintenance	0

20	TOTAL USAGE	154,866
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES	47.0%

BREAKDOWN OF WATER LOST

22	Tank Overflows (other than for DBP maintenance)	0
23	Excavation Breaks	0
24	Repaired Line Breaks	1,251,320
25	Unknown Loss	4,938,083

26	TOTAL WATER NOT SOLD OR USED	6,189,404
27	COST OF WATER NOT SOLD OR USED	\$16,473.51

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	4,938,083	
29	% "Unknown Loss"	37.5%	
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	159,293	
32	"Unknown Loss" per Minute (GPM)	110.62	
33	"Unknown Loss" Cost for Month	\$12,345.21	

37.5%

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: ky0480565

For the Month of: sept Year: 2017

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	12,632,480
4	Water Purchased	\$0.00	0
5	TOTAL PRODUCED AND PURCHASED		12,632,480
6	TOTAL COST	\$0.00	

WATER SOLD

7	Residential		5,871,451
8	Commercial		0
9	Industrial		0
10	Bulk Loading Stations		0
11	Wholesale		0
12	Other Sales (explain)		0

13	TOTAL WATER SOLD		5,871,451		46.5%
14	TOTAL WATER NOT SOLD		8,761,009		53.5%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		32,380		
16	Wastewater Treatment Plant		0		
17	System Flushing		400,048		\$0.00
18	Fire Department Usage		0		
19	DBP Flushing	DBP Maintenance	0		

20	TOTAL USAGE		432,406		
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		50.1%		

BREAKDOWN OF WATER LOST

22	Tank Overflows (other than for DBP maintenance)		0		
23	Excavation Breaks		0		
24	Repaired Line Breaks		2,743,734		\$0.00
25	Unknown Loss		3,584,889		28.4%

26	TOTAL WATER NOT SOLD OR USED		6,328,603		
27	COST OF WATER NOT SOLD OR USED		\$0.00		

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		3,584,869		
29	% "Unknown Loss"		28.4%		
30	Number of Days in Period		30		
31	"Unknown Loss" per Day (Gallons per Day)		119,496		
32	"Unknown Loss" per Minute (GPM)		82.98		
33	"Unknown Loss" Cost for Month		\$0.00		

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: ky0480565

For the Month of: oct Year: 2017

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	\$0.00	13,118,828
4	Water Purchased	\$0.00	0.0%
5	TOTAL PRODUCED AND PURCHASED		13,118,828
6	TOTAL COST	\$0.00	

WATER SOLD

7	Residential		6,025,610
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD		6,025,610 45.9%
14	TOTAL WATER NOT SOLD		7,093,216 54.1%

BREAKDOWN OF WATER USAGE

15	Water Treatment Plant		155,000
16	Wastewater Treatment Plant		
17	System Flushing		1,061,214
18	Fire Department Usage		0
19	DBP Flushing	DBP Maintenance	0

20	TOTAL USAGE		1,216,214
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		44.6%

BREAKDOWN OF WATER LOST

22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks		0
24	Repaired Line Breaks		792,738
25	Unknown Loss		5,084,264
26	TOTAL WATER NOT SOLD OR USED		5,877,002
27	COST OF WATER NOT SOLD OR USED		\$0.00

"UNKNOWN LOSS" FLOW RATE AND COST:

28	"Unknown Loss"		5,084,264
29	% "Unknown Loss"		38.8%
30	Number of Days in Period		31
31	"Unknown Loss" per Day (Gallons per Day)		164,009
32	"Unknown Loss" per Minute (GPM)		113.89
33	"Unknown Loss" Cost for Month		\$0.00

38.8%

Witness: Ronald Williams, Jr.

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: KY0480585

For the Month of: November Year: 2017

Line #	Item	Gallons	
1	Water Produced, Purchased and Distributed		
2	Water Produced	12,469,788	
3	Water Purchased	281,860	
4	Water Produced & Purchased	12,731,648	
5			
6	Water Sales		
7	Residential	6,292,498	
8	Commercial	0	
9	Industrial	0	
10	Bulk Loading Stations	0	
11	Wholesale	0	
12	Other Sales (explain) _____ 0	0	
13	Total Water Sales	6,292,498	49.4%
14			
15	Other Water Used		
16	Utility and/or Water Treatment Plant	0	
17	Wastewater Treatment Plant	0	
18	System Flushing	239,826	
19	Fire Department Usage	250,479	
20	Other Usage (explain) _____ DBP Maintenance	30,877	
21	Total Other Water Used	520,983	4.1%
22			
23	Water Loss		
24	Tank Overflows	0	
25	Line Breaks	2,649,630	
26	Line Leaks	3,268,637	
27	Other _____		
28	Total Line Loss	5,918,167	46.5%
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)		46.5%

Monthly Water Use Report

Water Utility:

Cawood Water District

PWSID: KY0480585

For the Month of:

December

Year: 2017

1 PRODUCTION COST PER THOUSAND (insert cost)

2 PURCHASE COST PER THOUSAND (insert cost)

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	12,533,687	100.0%
4	Water Purchased	0	0.0%
5	TOTAL PRODUCED AND PURCHASED	12,533,687	
6	TOTAL COST #VALUE!		

WATER SOLD			
7	Residential	6,678,404	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	6,678,404	52.5%
14	TOTAL WATER NOT SOLD	5,965,283	47.5%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	40,000	
16	Wastewater Treatment Plant		
17	System Flushing	340,700	#VALUE!
18	Fire Department Usage	274,388	#VALUE!
19	DBP Flushing DBP Maintenance	15,842	#VALUE!
20	TOTAL USAGE	670,928	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		42.2%

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	0	
24	Repaired Line Breaks	1,484,787	#VALUE!
25	Unknown Loss	3,799,688	30.3%
26	TOTAL WATER NOT SOLD OR USED	5,284,355	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	3,799,688	
29	% "Unknown Loss"	30.3%	
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	126,652	
32	"Unknown Loss" per Minute (GPM)	87.96	
33	"Unknown Loss" Cost for Month	#VALUE!	

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: KY0480565

For the Month of: Jan Year: 2018

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	13,600,987	92.3%
4	Water Purchased	1,128,000	7.7%
5	TOTAL PRODUCED AND PURCHASED	14,728,987	
6	TOTAL COST #VALUE!		

WATER SOLD			
7	Residential	7,198,986	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	7,198,986	48.9%
14	TOTAL WATER NOT SOLD	7,530,001	51.1%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	40,000	
16	Wastewater Treatment Plant		
17	System Flushing	52,682	#VALUE!
18	Fire Department Usage	9,505	#VALUE!
19	DBP Flushing DBP Maintenance	0	
20	TOTAL USAGE	102,187	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		50.4%

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	0	
24	Repaired Line Breaks	1,520,249	#VALUE!
25	Unknown Loss	5,907,565	#VALUE! 40.1%
26	TOTAL WATER NOT SOLD OR USED	7,427,814	
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	5,907,565	
29	% "Unknown Loss"	40.1%	
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	196,919	
32	"Unknown Loss" per Minute (GPM)	136.76	
33	"Unknown Loss" Cost for Month		#VALUE!

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: KY0480565

For the Month of: Feb. Year: 2018

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	10,202,490	95.7%
4	Water Purchased	454,000	4.3%
5	TOTAL PRODUCED AND PURCHASED	10,656,490	
6	TOTAL COST #VALUE!		

WATER SOLD			
7	Residential	5,407,836	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	5,407,836	50.7%
14	TOTAL WATER NOT SOLD	5,248,654	49.3%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	40,000	
16	Wastewater Treatment Plant		
17	System Flushing	186,265	#VALUE!
18	Fire Department Usage	0	
19	DBP Flushing DBP Maintenance	96,300	#VALUE!
20	TOTAL USAGE	322,565	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		46.2%

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	0	
24	Repaired Line Breaks	3,254,578	#VALUE!
25	Unknown Loss	1,671,510	██████████ 15.7%
26	TOTAL WATER NOT SOLD OR USED	4,926,089	
27	COST OF WATER NOT SOLD OR USED		#VALUE!

"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss"	1,671,510
29	% "Unknown Loss"	15.7%
30	Number of Days in Period	30
31	"Unknown Loss" per Day (Gallons per Day)	55,717
32	"Unknown Loss" per Minute (GPM)	38.69
33	"Unknown Loss" Cost for Month	#VALUE!

Monthly Water Use Report

Water Utility: Carwood Water District PWSID: KY0480588

For the Month of: March Year: 2018

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

		GALLONS	
WATER PRODUCED or PURCHASED			
3	Water Produced	10,559,000	100.0%
4	Water Purchased		0.0%
5	TOTAL PRODUCED AND PURCHASED	10,559,000	
6	TOTAL COST \$VALUE!		
WATER SOLD			
7	Residential	8,022,485	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	8,022,485	57.0%
14	TOTAL WATER NOT SOLD	4,536,515	43.0%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	1,060,000	
16	Wastewater Treatment Plant		
17	System Flushing	1,049,402	#VALUE!
18	Fire Department Usage	0	
19	DBP Flushing DBP Maintenance	193,475	#VALUE!
20	TOTAL USAGE	2,292,877	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		21.2%

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	0	
24	Repaired Line Breaks	287,675	#VALUE!
25	Unknown Loss	1,955,983	18.5%
26	TOTAL WATER NOT SOLD OR USED	2,243,638	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:		
28	"Unknown Loss"	1,955,983
29	% "Unknown Loss"	18.5%
30	Number of Days in Period	30
31	"Unknown Loss" per Day (Gallons per Day)	65,199
32	"Unknown Loss" per Minute (GPM)	45.28
33	"Unknown Loss" Cost for Month	#VALUE!

Monthly Water Use Report

Water Utility: Cawood Water District PWSID: KY0480585

For the Month of: April Year: 2018

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

GALLONS

WATER PRODUCED or PURCHASED			
3	Water Produced	10,297,982	100.0%
4	Water Purchased		0.0%
5	TOTAL PRODUCED AND PURCHASED	10,297,982	
6	TOTAL COST #VALUE!		

WATER SOLD			
7	Residential	6,156,370	
8	Commercial		
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	TOTAL WATER SOLD	6,156,370	59.8%
14	TOTAL WATER NOT SOLD	4,141,612	40.2%

BREAKDOWN OF WATER USAGE			
15	Water Treatment Plant	1,023,180	
16	Wastewater Treatment Plant		
17	System Flushing	661,200	#VALUE!
18	Fire Department Usage	50,408	#VALUE!
19	DBP Flushing DBP Maintenance	111,756	#VALUE!
20	TOTAL USAGE	1,846,544	
21	WATER LOSS PERCENTAGE FOR RATE PURPOSES		22.3%

BREAKDOWN OF WATER LOST			
22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	0	
24	Repaired Line Breaks	215,756	#VALUE!
25	Unknown Loss	2,079,312	██████████ 20.2%
26	TOTAL WATER NOT SOLD OR USED	2,295,068	
27	COST OF WATER NOT SOLD OR USED	#VALUE!	

"UNKNOWN LOSS" FLOW RATE AND COST:			
28	"Unknown Loss"	2,079,312	
29	% "Unknown Loss"	20.2%	
30	Number of Days in Period	30	
31	"Unknown Loss" per Day (Gallons per Day)	69,310	
32	"Unknown Loss" per Minute (GPM)	48.13	
33	"Unknown Loss" Cost for Month	#VALUE!	

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

IN THE MATTER OF:

AN INVESTIGATION INTO THE FEASIBILITY)
OF PROPOSED MERGER OF CAWOOD WATER) CASE NO. 2018-00068
DISTRICT AND BLACK MOUNTAIN UTILITY)
DISTRICT PURSUANT TO KRS 74.361)

VERIFICATION OF RONALD WILLIAMS, JR.

COMMONWEALTH OF KENTUCKY)
COUNTY OF HARLAN)

Ronald Williams Jr. being duly sworn, states that s/he has supervised the preparation of certain of the responses of Cawood Water District to Commission Staff's Second Request for Information propounded in the above-referenced proceeding and that the matters and things set forth in those responses are true and accurate to the best of his/her knowledge, information and belief, formed after reasonable inquiry.


NAME

The foregoing Verification was signed, acknowledged and sworn to before me this 10th day of May, 2018, by Ronald Williams Jr.


NOTARY PUBLIC
Commission Expiration: 9-28-19

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

IN THE MATTER OF:

AN INVESTIGATION INTO THE FEASIBILITY)
OF PROPOSED MERGER OF CAWOOD WATER) CASE NO. 2018-00068
DISTRICT AND BLACK MOUNTAIN UTILITY)
DISTRICT PURSUANT TO KRS 74.361)

VERIFICATION OF LANA PACE

COMMONWEALTH OF KENTUCKY)
COUNTY OF HARLAN)

Lana Pace, being duly sworn, states that s/he has supervised the preparation of certain of the responses of Cawood Water District to Commission Staff's Second Request for Information propounded in the above-referenced proceeding and that the matters and things set forth in those responses are true and accurate to the best of his/her knowledge, information and belief, formed after reasonable inquiry.

Lana Pace
NAME

The foregoing Verification was signed, acknowledged and sworn to before me this 10 day of May, 2018, by Lana Pace

Margaret A. Howard Brown
NOTARY PUBLIC
Commission Expiration: 9-28-19