

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

**In the Matter of:**

**ELECTRONIC INVESTIGATION INTO                    )**  
**EXCESSIVE WATER LOSS BY KENTUCKY'S        ) CASE NO. 2019-00041**  
**JURISDICTIONAL WATER UTILITIES            )**

**RESPONSE OF ESTILL COUNTY WATER DISTRICT NO. 1**  
**TO COMMISSION ORDER OF MARCH 12, 2019**

Estill County Water District No. 1 submits its Response to the Commission's Order of  
March 12, 2019.

Dated: April 12, 2019

Respectfully submitted,



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*Counsel for Estill County Water District No. 1*

## CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that Estill County Water District No. 1'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 12, 2019; that there are currently no parties that the Public Service Commission has excused from participation by electronic means in this proceeding; and that on or before April 16, 2019 this Application in paper medium will be delivered to the Public Service Commission.



Gerald E. Wretcher

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**RESPONSE OF**  
**ESTILL COUNTY WATER DISTRICT NO. 1**  
**TO**  
**COMMISSION ORDER OF MARCH 12, 2019**

**FILED: April 12, 2019**

VERIFICATION

COMMONWEALTH OF KENTUCKY )  
  ) SS:  
COUNTY OF ESTILL            )

The undersigned, Audrea Miller, being duly sworn, deposes and states that she is the Acting Manager of Estill County Water District No. 1 and that she has personal knowledge of the matters set forth in the responses for which she is identified as the witness, and the answers contained therein are true and correct to the best of her information, knowledge and belief.

*Audrea B Miller*  
\_\_\_\_\_  
Audrea Miller

Subscribed and sworn to before me, a Notary Public in and before said County and State,  
this 11 day of April 2019.

*Lisa B Puckett* (SEAL)  
\_\_\_\_\_  
Notary Public



My Commission Expires: JUNE 25 2019

Notary ID: 536649

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 1

Responding Witness: Audrea Miller

- Q-1. Provide the utility's monthly unaccounted-for loss water loss percentage report with associated underlying data from January 1, 2018, to the date of the issuance of this Order.**
- A-1. Estill County Water District No. 1's unaccounted for water loss percentage reports from January 1, 2018 to February 28, 2019 are attached to this Response. Beginning January 1, 2019, Estill County Water District No. 1 began using Kentucky Rural Water Association's Water Accountability Reporting System to determine its water loss.

## Monthly Water Loss Report

Water Company: Estill County Water District

For the Month of: ANNUAL Year: 2018

Water Purchased @ Irvine Bridge	<span style="border: 1px solid black; padding: 2px;">201,156,000</span>	gallons
Water Purchased @ Dry Branch	<span style="border: 1px solid black; padding: 2px;">56,240,000</span>	gallons
Water Purchased @ Sweet Lick	<span style="border: 1px solid black; padding: 2px;">332,000</span>	gallons
Water Purchased @ Jackson Co.	<span style="border: 1px solid black; padding: 2px;">388,700</span>	gallons
<b>A: Total Water Purchased =</b>	<b>258,116,700</b>	<b>gallons</b>
Water Sold @ Irvine Bridge	<span style="border: 1px solid black; padding: 2px;">121,305,180</span>	gallons
Water Sold @ Dry Branch	<span style="border: 1px solid black; padding: 2px;">32,928,780</span>	gallons
Water Sold @ Sweet Lick	<span style="border: 1px solid black; padding: 2px;">406,540</span>	gallons
Water Sold @ Jackson Co.	<span style="border: 1px solid black; padding: 2px;">345,210</span>	gallons
<b>Total Sold =</b>	<b>154,985,710</b>	<b>gallons</b>
Difference @ Irvine Bridge	<span style="border: 1px solid black; padding: 2px;">79,850,820</span>	gallons
Difference @ Dry Branch	<span style="border: 1px solid black; padding: 2px;">23,311,220</span>	gallons
Difference @ Sweet Lick	<span style="border: 1px solid black; padding: 2px;">-74,540</span>	gallons
Difference @ Jackson Co.	<span style="border: 1px solid black; padding: 2px;">43,490</span>	gallons
<b>B: Difference: (Produced+Purchased) - Sold =</b>	<b>103,130,990</b>	<b>gallons</b>
% Difference @ Irvine Bridge	<span style="border: 1px solid black; padding: 2px;">40</span>	%
%Difference @ Dry Branch	<span style="border: 1px solid black; padding: 2px;">41</span>	%
%Difference @ Sweet Lick	<span style="border: 1px solid black; padding: 2px;">-22</span>	%
%Difference @ Jackson Co.	<span style="border: 1px solid black; padding: 2px;">11</span>	%
<b>% Difference =</b>	<b>40 % total water</b>	
<b>Gallons of Water Accounted For:</b>		
Breaks (Estimated Total)	<span style="border: 1px solid black; padding: 2px;">20,525,200</span>	gallons
Hydrant Flushing	<span style="border: 1px solid black; padding: 2px;">388,653</span>	gallons
Storage Tank Overflow	<span style="border: 1px solid black; padding: 2px;">75,000</span>	gallons
Fire Department Use	<span style="border: 1px solid black; padding: 2px;">464,947</span>	gallons
Other	<span style="border: 1px solid black; padding: 2px;">0</span>	gallons
<b>C: Total Gallons Accounted For =</b>	<b>21,453,800</b>	<b>gallons</b>
<b>Loss: Unaccounted-for Water: (B-C) =</b>	<b>81,677,190</b>	<b>gallons</b>
<b>% Loss: Unaccounted-for Water: (B-C)/A %=</b>	<b>32 % unaccounted - for loss</b>	
<b>Gallons / Day Loss =</b>	<span style="border: 1px solid black; padding: 2px;">365</span>	days in year
<b>Gallons / Minute Loss =</b>	<b>223,773</b>	<b>gallons/day</b>
<b>Total Gallons Lost Divided by</b>	<b>155</b>	<b>gallons/min.</b>
<b>1,000</b>	<span style="border: 1px solid black; padding: 2px;">103,131</span>	
Purchase Rate	3.13	
		<b>\$322,800.00</b> <b>total dollar amount lost</b>

# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **JANUARY** Year: **2018**

Water Purchased @ Irvine Bridge	18,380,000	gallons
Water Purchased @ Dry Branch	5,300,000	gallons
Water Purchased @ Sweet Lick	27,000	gallons
Water Purchased @ Jackson Co.	64,700	gallons

**A: Total Water Purchased = 23,771,700 gallons**

Water Sold @ Irvine Bridge	10,536,130	gallons
Water Sold @ Dry Branch	2,891,800	gallons
Water Sold @ Sweet Lick	33,750	gallons
Water Sold @ Jackson Co.	32,490	gallons
<b>Total Sold =</b>	<b>13,494,170</b>	<b>gallons</b>

Difference @ Irvine Bridge	7,843,870	gallons
Difference @ Dry Branch	2,408,200	gallons
Difference @ Sweet Lick	-6,750	gallons
Difference @ Jackson Co.	32,210	gallons

**B: Difference: (Produced+Purchased) - Sold = 10,277,530 gallons**

% Difference @ Irvine Bridge	43	%
%Difference @ Dry Branch	45	%
%Difference @ Sweet Lick	-25	%
%Difference @ Jackson Co.	50	%
<b>% Difference =</b>	<b>43</b>	<b>% total water</b>

**Gallons of Water Accounted For:**

Breaks (Estimated Total)	949,643	gallons
Hydrant Flushing	41,002	gallons
Storage Tank Overflow		gallons
Fire Department Use	40,483	gallons
Other		gallons

**C: Total Gallons Accounted For = 1,031,128 gallons**

**Loss: Unaccounted-for Water: (B-C) = 9,246,402 gallons**

**% Loss: Unaccounted-for Water: (B-C)/A %= 39 % unaccounted - for loss**

<b>Gallons / Day Loss =</b>	31	days in month
<b>Gallons / Minute Loss =</b>	298,271	gallons/day
<b>Total Gallons Lost Divided by</b>	207	gallons/min.

**1,000 10,278**

**Purchase Rate 3.13**

**\$32,168.67 total dollar amount lost**

# Monthly Water Loss Report

Water Company: Estill County Water District

For the Month of: FEBRUARY Year: 2018

Water Purchased @ Irvine Bridge	17,830,000	gallons
Water Purchased @ Dry Branch	5,100,000	gallons
Water Purchased @ Sweet Lick	23,000	gallons
Water Purchased @ Jackson Co.	25,900	gallons

**A: Total Water Purchased = 22,978,900 gallons**

Water Sold @ Irvine Bridge	10,911,340	gallons
Water Sold @ Dry Branch	2,766,430	gallons
Water Sold @ Sweet Lick	30,990	gallons
Water Sold @ Jackson Co.	31,750	gallons
<b>Total Sold =</b>	<b>13,740,510</b>	<b>gallons</b>

Difference @ Irvine Bridge	6,918,660	gallons
Difference @ Dry Branch	2,333,570	gallons
Difference @ Sweet Lick	-7,990	gallons
Difference @ Jackson Co.	-5,850	gallons

**B: Difference: (Produced+Purchased) - Sold = 9,238,390 gallons**

% Difference @ Irvine Bridge	39	%
%Difference @ Dry Branch	46	%
%Difference @ Sweet Lick	-35	%
%Difference @ Jackson Co.	-23	%
<b>% Difference =</b>	<b>40 % total water</b>	

**Gallons of Water Accounted For:**

Breaks (Estimated Total)	1,773,555	gallons
Hydrant Flushing	28,612	gallons
Storage Tank Overflow		gallons
Fire Department Use	41,222	gallons
Other		gallons

**C: Total Gallons Accounted For = 1,843,389 gallons**

**Loss: Unaccounted-for Water: (B-C) = 7,395,001 gallons**

**% Loss: Unaccounted-for Water: (B-C)/A %= 32 % unaccounted - for loss**

	28	days in month
<b>Gallons / Day Loss =</b>	<b>264,107</b>	<b>gallons/day</b>
<b>Gallons / Minute Loss =</b>	<b>183</b>	<b>gallons/min.</b>

**Total Gallons Lost Divided by 1,000 9,238**

**Purchase Rate 3.13**

**\$28,916.16 total dollar amount lost**



# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **MARCH** Year: **2018**

Water Purchased @ Irvine Bridge	13,910,000	gallons
Water Purchased @ Dry Branch	4,040,000	gallons
Water Purchased @ Sweet Lick	19,000	gallons
Water Purchased @ Jackson Co.	25,900	gallons

**A: Total Water Purchased = 17,994,900 gallons**

Water Sold @ Irvine Bridge	8,826,850	gallons
Water Sold @ Dry Branch	2,334,830	gallons
Water Sold @ Sweet Lick	29,610	gallons
Water Sold @ Jackson Co.	23,110	gallons
<b>Total Sold =</b>	<b>11,214,400</b>	<b>gallons</b>

Difference @ Irvine Bridge	5,083,150	gallons
Difference @ Dry Branch	1,705,170	gallons
Difference @ Sweet Lick	-10,610	gallons
Difference @ Jackson Co.	2,790	gallons

**B: Difference: (Produced+Purchased) - Sold = 6,780,500 gallons**

% Difference @ Irvine Bridge	37	%
%Difference @ Dry Branch	42	%
%Difference @ Sweet Lick	-56	%
%Difference @ Jackson Co.	11	%
<b>% Difference =</b>	<b>38</b>	<b>% total water</b>

<b>Gallons of Water Accounted For:</b>		
Breaks (Estimated Total)	729,820	gallons
Hydrant Flushing		gallons
Storage Tank Overflow		gallons
Fire Department Use	33,634	gallons
Other		gallons

**C: Total Gallons Accounted For = 763,454 gallons**  
**Loss: Unaccounted-for Water: (B-C) = 6,017,046 gallons**  
**% Loss: Unaccounted-for Water: (B-C)/A %= 33 % unaccounted - for loss**

<b>Gallons / Day Loss =</b>	31	days in month
<b>Gallons / Minute Loss =</b>	194,098	gallons/day
	135	gallons/min.

**Total Gallons Lost Divided by 1,000 6,781**

**Purchase Rate 3.13**

**\$21,222.97 total dollar amount lost**

# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **APRIL** Year: **2018**

Water Purchased @ Irvine Bridge	15,340,000	gallons
Water Purchased @ Dry Branch	4,550,000	gallons
Water Purchased @ Sweet Lick	24,000	gallons
Water Purchased @ Jackson Co.	27,100	gallons

**A: Total Water Purchased = 19,941,100 gallons**

Water Sold @ Irvine Bridge	8,933,260	gallons
Water Sold @ Dry Branch	2,497,370	gallons
Water Sold @ Sweet Lick	33,550	gallons
Water Sold @ Jackson Co.	29,570	gallons
<b>Total Sold =</b>	<b>11,493,750</b>	<b>gallons</b>

Difference @ Irvine Bridge	6,406,740	gallons
Difference @ Dry Branch	2,052,630	gallons
Difference @ Sweet Lick	-9,550	gallons
Difference @ Jackson Co.	-2,470	gallons

**B: Difference: (Produced+Purchased) - Sold = 8,447,350 gallons**

% Difference @ Irvine Bridge	42	%
%Difference @ Dry Branch	45	%
%Difference @ Sweet Lick	-40	%
%Difference @ Jackson Co.	-9	%
<b>% Difference =</b>	<b>42</b>	<b>% total water</b>

**Gallons of Water Accounted For:**

Breaks (Estimated Total)	4,886,715	gallons
Hydrant Flushing	95,751	gallons
Storage Tank Overflow		gallons
Fire Department Use	34,481	gallons
Other		gallons

**C: Total Gallons Accounted For = 5,016,947 gallons**

**Loss: Unaccounted-for Water: (B-C) = 3,430,403 gallons**

**% Loss: Unaccounted-for Water: (B-C)/A %= 17 % unaccounted - for loss**

**30 days in month**

**Gallons / Day Loss = 114,347 gallons/day**

**Gallons / Minute Loss = 79 gallons/min.**

**Total Gallons Lost Divided by 1,000 8,447**

**Purchase Rate 3.13**

**\$26,440.21 total dollar amount lost**

# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **MAY** Year: **2018**

Water Purchased @ Irvine Bridge	17,710,000	gallons
Water Purchased @ Dry Branch	4,910,000	gallons
Water Purchased @ Sweet Lick	38,000	gallons
Water Purchased @ Jackson Co.	32,100	gallons

**A: Total Water Purchased = 22,690,100 gallons**

Water Sold @ Irvine Bridge	8,911,770	gallons
Water Sold @ Dry Branch	2,326,080	gallons
Water Sold @ Sweet Lick	27,670	gallons
Water Sold @ Jackson Co.	22,060	gallons
<b>Total Sold =</b>	<b>11,287,580</b>	<b>gallons</b>

Difference @ Irvine Bridge	8,798,230	gallons
Difference @ Dry Branch	2,583,920	gallons
Difference @ Sweet Lick	10,330	gallons
Difference @ Jackson Co.	10,040	gallons

**B: Difference: (Produced+Purchased) - Sold = 11,402,520 gallons**

% Difference @ Irvine Bridge	50	%
%Difference @ Dry Branch	53	%
%Difference @ Sweet Lick	27	%
%Difference @ Jackson Co.	31	%

**% Difference = 50 % total water**

**Gallons of Water Accounted For:**

Breaks (Estimated Total)	2,442,106	gallons
Hydrant Flushing	26,614	gallons
Storage Tank Overflow		gallons
Fire Department Use	33,863	gallons
Other		gallons

**C: Total Gallons Accounted For = 2,502,583 gallons**

**Loss: Unaccounted-for Water: (B-C) = 8,899,937 gallons**

**% Loss: Unaccounted-for Water: (B-C)/A %= 39 % unaccounted - for loss**

31 days in month

**Gallons / Day Loss = 287,095 gallons/day**

**Gallons / Minute Loss = 199 gallons/min.**

**Total Gallons Lost Divided by 1,000 11,403**

**Purchase Rate 3.13**

**\$35,689.89 total dollar amount lost**

# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **JUNE** Year: **2018**

Water Purchased @ Irvine Bridge	16,150,000	gallons
Water Purchased @ Dry Branch	4,830,000	gallons
Water Purchased @ Sweet Lick	34,000	gallons
Water Purchased @ Jackson Co.	33,300	gallons
<b>A: Total Water Purchased =</b>	<b>21,047,300</b>	<b>gallons</b>

Water Sold @ Irvine Bridge	12,297,000	gallons
Water Sold @ Dry Branch	3,222,830	gallons
Water Sold @ Sweet Lick	34,450	gallons
Water Sold @ Jackson Co.	30,770	gallons
<b>Total Sold =</b>	<b>15,585,050</b>	<b>gallons</b>

Difference @ Irvine Bridge	3,853,000	gallons
Difference @ Dry Branch	1,607,170	gallons
Difference @ Sweet Lick	-450	gallons
Difference @ Jackson Co.	2,530	gallons
<b>B: Difference: (Produced+Purchased) - Sold =</b>	<b>5,462,250</b>	<b>gallons</b>

% Difference @ Irvine Bridge	24	%
%Difference @ Dry Branch	33	%
%Difference @ Sweet Lick	-1	%
%Difference @ Jackson Co.	8	%
<b>% Difference =</b>	<b>26</b>	<b>% total water</b>

<b>Gallons of Water Accounted For:</b>		
Breaks (Estimated Total)	1,018,917	gallons
Hydrant Flushing	110,155	gallons
Storage Tank Overflow		gallons
Fire Department Use	46,755	gallons
Other		gallons

<b>C: Total Gallons Accounted For =</b>	<b>1,175,827</b>	<b>gallons</b>
<b>Loss: Unaccounted-for Water: (B-C) =</b>	<b>4,286,423</b>	<b>gallons</b>
<b>% Loss: Unaccounted-for Water: (B-C)/A %=</b>	<b>20</b>	<b>% unaccounted - for loss</b>

<b>Gallons / Day Loss =</b>	30	days in month
<b>Gallons / Minute Loss =</b>	<b>142,881</b>	<b>gallons/day</b>
	<b>99</b>	<b>gallons/min.</b>

<b>Total Gallons Lost Divided by</b>	<b>1,000</b>	<b>5,462</b>
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Purchase Rate 3.13

**\$17,096.84** total dollar amount lost

# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **JULY**

Year: **2018**

Water Purchased @ Irvine Bridge	16,550,000	gallons	<b>EST-NEW METER</b>
Water Purchased @ Dry Branch	4,510,000	gallons	
Water Purchased @ Sweet Lick	35,000	gallons	
Water Purchased @ Jackson Co.	36,100	gallons	

**A: Total Water Purchased = 21,131,100 gallons**

Water Sold @ Irvine Bridge	10,705,590	gallons
Water Sold @ Dry Branch	2,998,700	gallons
Water Sold @ Sweet Lick	41,010	gallons
Water Sold @ Jackson Co.	32,980	gallons
<b>Total Sold =</b>	<b>13,778,280</b>	<b>gallons</b>

Difference @ Irvine Bridge	5,844,410	gallons
Difference @ Dry Branch	1,511,300	gallons
Difference @ Sweet Lick	-6,010	gallons
Difference @ Jackson Co.	3,120	gallons

**B: Difference: (Produced+Purchased) - Sold = 7,352,820 gallons**

% Difference @ Irvine Bridge	35	%
%Difference @ Dry Branch	34	%
%Difference @ Sweet Lick	-17	%
%Difference @ Jackson Co.	9	%

**% Difference = 35 % total water**

**Gallons of Water Accounted For:**

Breaks (Estimated Total)	1,080,000	gallons
Hydrant Flushing		gallons
Storage Tank Overflow	75,000	gallons
Fire Department Use	41,334	gallons
Other		gallons

**C: Total Gallons Accounted For = 1,196,334 gallons**

**Loss: Unaccounted-for Water: (B-C) = 6,156,486 gallons**

**% Loss: Unaccounted-for Water: (B-C)/A %= 29 % unaccounted - for loss**

**31 days in month**

**Gallons / Day Loss = 198,596 gallons/day**

**Gallons / Minute Loss = 138 gallons/min.**

**Total Gallons Lost Divided by 1,000 7,353**

**Purchase Rate 3.13**

**\$23,014.33 total dollar amount lost**

# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **AUGUST** Year: **2018**

Water Purchased @ Irvine Bridge	18,079,000	gallons
Water Purchased @ Dry Branch	4,990,000	gallons
Water Purchased @ Sweet Lick	28,000	gallons
Water Purchased @ Jackson Co.	31,200	gallons

**A: Total Water Purchased = 23,128,200 gallons**

Water Sold @ Irvine Bridge	10,819,830	gallons
Water Sold @ Dry Branch	3,214,260	gallons
Water Sold @ Sweet Lick	32,140	gallons
Water Sold @ Jackson Co.	33,900	gallons
<b>Total Sold =</b>	<b>14,100,130</b>	<b>gallons</b>

Difference @ Irvine Bridge	7,259,170	gallons
Difference @ Dry Branch	1,775,740	gallons
Difference @ Sweet Lick	-4,140	gallons
Difference @ Jackson Co.	-2,700	gallons

**B: Difference: (Produced+Purchased) - Sold = 9,028,070 gallons**

% Difference @ Irvine Bridge	40	%
%Difference @ Dry Branch	36	%
%Difference @ Sweet Lick	-15	%
%Difference @ Jackson Co.	-9	%
<b>% Difference =</b>	<b>39</b>	<b>% total water</b>

**Gallons of Water Accounted For:**

Breaks (Estimated Total)	2,122,617	gallons
Hydrant Flushing	8,761	gallons
Storage Tank Overflow		gallons
Fire Department Use	42,300	gallons
Other		gallons

**C: Total Gallons Accounted For = 2,173,678 gallons**

**Loss: Unaccounted-for Water: (B-C) = 6,854,392 gallons**

**% Loss: Unaccounted-for Water: (B-C)/A %= 30 % unaccounted - for loss**

<b>Gallons / Day Loss =</b>	31	days in month
<b>Gallons / Minute Loss =</b>	221,109	gallons/day
<b>Total Gallons Lost Divided by</b>	154	gallons/min.

**1,000 9,028**

**Purchase Rate 3.13**

**\$28,257.86 total dollar amount lost**

# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **SEPTEMBER** Year: **2018**

Water Purchased @ Irvine Bridge	16,337,000	gallons
Water Purchased @ Dry Branch	4,670,000	gallons
Water Purchased @ Sweet Lick	25,000	gallons
Water Purchased @ Jackson Co.	30,300	gallons
<b>A: Total Water Purchased =</b>	<b>21,062,300</b>	<b>gallons</b>

Water Sold @ Irvine Bridge	10,287,260	gallons
Water Sold @ Dry Branch	2,580,340	gallons
Water Sold @ Sweet Lick	37,760	gallons
Water Sold @ Jackson Co.	26,680	gallons
<b>Total Sold =</b>	<b>12,932,040</b>	<b>gallons</b>

Difference @ Irvine Bridge	6,049,740	gallons
Difference @ Dry Branch	2,089,660	gallons
Difference @ Sweet Lick	-12,760	gallons
Difference @ Jackson Co.	3,620	gallons
<b>B: Difference: (Produced+Purchased) - Sold =</b>	<b>8,130,260</b>	<b>gallons</b>

% Difference @ Irvine Bridge	37	%
%Difference @ Dry Branch	45	%
%Difference @ Sweet Lick	-51	%
%Difference @ Jackson Co.	12	%
<b>% Difference =</b>	<b>39</b>	<b>% total water</b>

<b>Gallons of Water Accounted For:</b>		
Breaks (Estimated Total)	1,012,382	gallons
Hydrant Flushing		gallons
Storage Tank Overflow		gallons
Fire Department Use	38,796	gallons
Other		gallons

<b>C: Total Gallons Accounted For =</b>	<b>1,051,178</b>	<b>gallons</b>
<b>Loss: Unaccounted-for Water: (B-C) =</b>	<b>7,079,082</b>	<b>gallons</b>
<b>% Loss: Unaccounted-for Water: (B-C)/A %=</b>	<b>34</b>	<b>% unaccounted - for loss</b>

<b>Gallons / Day Loss =</b>	30	days in month
<b>Gallons / Minute Loss =</b>	<b>235,969</b>	<b>gallons/day</b>
	<b>164</b>	<b>gallons/min.</b>

<b>Total Gallons Lost Divided by</b>	<b>1,000</b>	<b>8,130</b>
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Purchase Rate 3.13

**\$25,447.71** total dollar amount lost

# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **OCTOBER** Year: **2018**

Water Purchased @ Irvine Bridge	17,910,000	gallons
Water Purchased @ Dry Branch	4,360,000	gallons
Water Purchased @ Sweet Lick	27,000	gallons
Water Purchased @ Jackson Co.	29,900	gallons
<b>A: Total Water Purchased =</b>	<b>22,326,900</b>	<b>gallons</b>

Water Sold @ Irvine Bridge	10,112,390	gallons
Water Sold @ Dry Branch	2,672,550	gallons
Water Sold @ Sweet Lick	36,460	gallons
Water Sold @ Jackson Co.	26,880	gallons
<b>Total Sold =</b>	<b>12,848,280</b>	<b>gallons</b>

Difference @ Irvine Bridge	7,797,610	gallons
Difference @ Dry Branch	1,687,450	gallons
Difference @ Sweet Lick	-9,460	gallons
Difference @ Jackson Co.	3,020	gallons
<b>B: Difference: (Produced+Purchased) - Sold =</b>	<b>9,478,620</b>	<b>gallons</b>

% Difference @ Irvine Bridge	44	%
%Difference @ Dry Branch	39	%
%Difference @ Sweet Lick	-35	%
%Difference @ Jackson Co.	10	%
<b>% Difference =</b>	<b>42</b>	<b>% total water</b>

<b>Gallons of Water Accounted For:</b>		
Breaks (Estimated Total)	1,504,800	gallons
Hydrant Flushing		gallons
Storage Tank Overflow		gallons
Fire Department Use	38,545	gallons
Other		gallons

<b>C: Total Gallons Accounted For =</b>	<b>1,543,345</b>	<b>gallons</b>
<b>Loss: Unaccounted-for Water: (B-C) =</b>	<b>7,935,275</b>	<b>gallons</b>
<b>% Loss: Unaccounted-for Water: (B-C)/A %=</b>	<b>36</b>	<b>% unaccounted - for loss</b>

<b>Gallons / Day Loss =</b>	31	days in month
<b>Gallons / Minute Loss =</b>	<b>255,977</b>	<b>gallons/day</b>
	<b>178</b>	<b>gallons/min.</b>

<b>Total Gallons Lost Divided by</b>	<b>1,000</b>	<b>9,479</b>
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Purchase Rate 3.13

**\$29,668.08 total dollar amount lost**



# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **NOVEMBER** Year: **2018**

Water Purchased @ Irvine Bridge	17,310,000	gallons
Water Purchased @ Dry Branch	4,540,000	gallons
Water Purchased @ Sweet Lick	28,000	gallons
Water Purchased @ Jackson Co.	26,100	gallons

**A: Total Water Purchased = 21,904,100 gallons**

Water Sold @ Irvine Bridge	10,100,260	gallons
Water Sold @ Dry Branch	3,049,580	gallons
Water Sold @ Sweet Lick	38,990	gallons
Water Sold @ Jackson Co.	30,990	gallons
<b>Total Sold =</b>	<b>13,219,820</b>	<b>gallons</b>

Difference @ Irvine Bridge	7,209,740	gallons
Difference @ Dry Branch	1,490,420	gallons
Difference @ Sweet Lick	-10,990	gallons
Difference @ Jackson Co.	-4,890	gallons

**B: Difference: (Produced+Purchased) - Sold = 8,684,280 gallons**

% Difference @ Irvine Bridge	42	%
%Difference @ Dry Branch	33	%
%Difference @ Sweet Lick	-39	%
%Difference @ Jackson Co.	-19	%

**% Difference = 40 % total water**

**Gallons of Water Accounted For:**

Breaks (Estimated Total)	1,665,445	gallons
Hydrant Flushing	77,758	gallons
Storage Tank Overflow		gallons
Fire Department Use	39,659	gallons
Other		gallons

**C: Total Gallons Accounted For = 1,782,862 gallons**

**Loss: Unaccounted-for Water: (B-C) = 6,901,418 gallons**

**% Loss: Unaccounted-for Water: (B-C)/A %= 32 % unaccounted - for loss**

**30** days in month

**Gallons / Day Loss = 230,047 gallons/day**

**Gallons / Minute Loss = 160 gallons/min.**

**Total Gallons Lost Divided by 1,000 8,684**

**Purchase Rate 3.13**

**\$27,181.80 total dollar amount lost**

# Monthly Water Loss Report

Water Company: **Estill County Water District**

For the Month of: **DECEMBER** Year: **2018**

Water Purchased @ Irvine Bridge	15,650,000	gallons
Water Purchased @ Dry Branch	4,440,000	gallons
Water Purchased @ Sweet Lick	24,000	gallons
Water Purchased @ Jackson Co.	26,100	gallons
<b>A: Total Water Purchased =</b>	<b>20,140,100</b>	<b>gallons</b>

Water Sold @ Irvine Bridge	8,863,500	gallons
Water Sold @ Dry Branch	2,374,010	gallons
Water Sold @ Sweet Lick	30,160	gallons
Water Sold @ Jackson Co.	24,030	gallons
<b>Total Sold =</b>	<b>11,291,700</b>	<b>gallons</b>

Difference @ Irvine Bridge	6,786,500	gallons
Difference @ Dry Branch	2,065,990	gallons
Difference @ Sweet Lick	-6,160	gallons
Difference @ Jackson Co.	2,070	gallons
<b>B: Difference: (Produced+Purchased) - Sold =</b>	<b>8,848,400</b>	<b>gallons</b>

% Difference @ Irvine Bridge	43	%
%Difference @ Dry Branch	47	%
%Difference @ Sweet Lick	-26	%
%Difference @ Jackson Co.	8	%
<b>% Difference =</b>	<b>44</b>	<b>% total water</b>

<b>Gallons of Water Accounted For:</b>		
Breaks (Estimated Total)	1,339,200	gallons
Hydrant Flushing		gallons
Storage Tank Overflow		gallons
Fire Department Use	33,875	gallons
Other		gallons

<b>C: Total Gallons Accounted For =</b>	<b>1,373,075</b>	<b>gallons</b>
<b>Loss: Unaccounted-for Water: (B-C) =</b>	<b>7,475,325</b>	<b>gallons</b>
<b>% Loss: Unaccounted-for Water: (B-C)/A %=</b>	<b>37</b>	<b>% unaccounted - for loss</b>

<b>Gallons / Day Loss =</b>	31	days in month
<b>Gallons / Minute Loss =</b>	<b>241,140</b>	<b>gallons/day</b>
	<b>167</b>	<b>gallons/min.</b>

<b>Total Gallons Lost Divided by</b>	<b>1,000</b>	<b>8,848</b>
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Purchase Rate 3.13

**\$27,695.49 total dollar amount lost**

# Monthly Water Accountability Reports

Month:  Year:

Water System:  PWSID:

Contact Person:  Phone:

Mailing Address:  State:  Zip:   
City:

<b>Cubic Feet Conversion:</b>	<input type="text"/>	cubic feet equals	<input type="text" value="0"/>	gallons
	<input type="text"/>	gallons equals	<input type="text" value="0"/>	cubic feet
	<input type="text"/>	ft <sup>3</sup> costing <input type="text"/>	equals	<input type="text"/>

**All Utilities**

401 KAR 8:150

Section 4:

(2) Line repairs due to breaks or ruptures.

(a) The system shall thoroughly flush the break area and maintain at least a minimum disinfectant residual, pursuant to Section 1(1) of this administrative regulation.

(b) The system may leave the line in service or return the line to service before receiving bacteriological results and may forego a boil water advisory if:

1. Pressure is maintained;
2. The break area is thoroughly flushed; and
3. At least the minimum disinfectant residual is maintained, pursuant to Section 1(1) of this administrative regulation.

(c)1. The system shall take at least two (2) bacteriological tests, one (1) located before, or just upstream of, the break or rupture, and one (1) located behind, or just downstream of, the break or rupture, as close to the break or rupture as practical pursuant to 40 C.F.R. 141.21. Additional samples may be required, if necessary to be representative of the area affected by the break.

2. Sample bottles shall be clearly identified as "special" tests, and the results submitted to the cabinet shall be clearly marked as "special" samples

(d)1. Records of results shall be submitted to the cabinet with routine monthly compliance samples, unless the samples are required to lift a boil water advisory, and shall be maintained for one (1) year. 2. Samples needed to remove a boil water advisory shall be submitted to the cabinet as soon as the results are known.

(e) A water system shall notify the cabinet immediately if:

1. The pressure drops below twenty (20) pounds per square inch in the distribution system surrounding the break; or
2. A break or rupture occurs that requires more than eight (8) hours to repair, with the eight (8) hours beginning when the water system becomes aware of the break.

(f) Boil Water Advisories shall be issued in accordance with 401 KAR 8:020, Section 2(9).

(g) Reports pursuant to 401 KAR 8:020, Section 2(7)(c) shall not be required for a loss of pressure, break, or rupture occurring in service lines serving only one (1) single family residence.

(h)1. A community or nontransient noncommunity public water system shall maintain a log of all breaks or ruptures, which shall include the:

- a. Date and location of the break or rupture;
  - b. Time it was discovered;
  - c. Population affected;
  - d. Length of time required to repair the break or rupture;
  - e. Date and time disinfectant residuals are detected; and
  - f. Date and time bacteriological samples are taken.
2. The log shall be available for inspection by the cabinet.

**Utilities under PSC jurisdiction**

807 KAR 5:006. General Rules.

Section 27. Reporting of Accidents, Property Damage or Loss of Service. (1) Within two (2) hours following discovery each utility, other than a natural gas utility, shall notify the commission by telephone or electronic mail of any utility related accident which results in:

(a) Death; or shock or burn requiring medical treatment at a hospital or similar medical facility, or any accident requiring inpatient overnight hospitalization;

(b) Actual or potential property damage of \$25,000 or more; or

(c) Loss of service for four (4) or more hours to ten (10) percent or 500 or more of the utility's customers, whichever is less.

(2) A summary written report shall be submitted by the utility to the commission within seven (7) calendar days of the utility related accident. For good cause shown, the executive director of the commission, may, upon application in writing, allow a reasonable extension of time for submission of this report.

807 KAR 5:066. Water.

Section 3. (4) (b) Report to the commission. If a utility is required by the Natural Resources Cabinet to make a public notification pursuant to administrative regulations of the Natural Resources Cabinet, the utility shall provide the commission with a copy of the

<b>DOW:</b>	502-564-3410	(normal hours)
	502-564-2380	(after hours)
	800-928-2380	(chemical spills)

<b>PSC:</b>	502-564-3940	
	1-800-772-4636	(Hotline)



# Boil Water Advisory

This consumer advisory is being issued by:  
Estill County Water Dist.

## What should you do?

Although **NO CONTAMINATION HAS BEEN CONFIRMED** we recommend: Bring all water to a rolling boil, let it boil for three (3) minutes, and let it cool before using, or use bottled water. Boiled or bottled water should be used for drinking, making ice, brushing teeth, washing dishes, and food preparation until further notice. Boiling kills bacteria and other organisms in the water.

## What are the areas being affected? (insert areas)

People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice from their health care providers about drinking water.

## What happened? (explain details)

## How are we correcting the problem? (explain)

**We apologize for any inconvenience this may have caused you. This advisory was issued as a precautionary action and can only be lifted with the approval of the Kentucky Division of Water. When all appropriate laboratory testing is completed and the Kentucky Division of Water allows us to lift the advisory, we will inform you when you no longer need to boil your water.**

For more information, please contact: Willie Murphy  
76 Cedar Grove Rd.  
(606)723-3795 Irvine  
Ky 40336

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

This notice is being sent to you by: Estill County Water Dist.  
Public Water System ID #: Ky0330123

Date \_\_\_\_\_

**Spanish** - Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

Basic Costs of Water Production and Distribution

Month:

Year:

System Name:

PWSID:

Total Gallons Treated:

Man-Hours Cost (for hours actually worked at treatment plant)

Employee Name	Hourly Wage	Hourly Fringe	Hours Worked	Monthly Cost

This report does not include analytical and other water system operational or maintenance costs. For determining customer and wholesale rates consider a cost of service study.

Total Man-Hours Cost

Chemical Cost

Chemical Name	Units (lbs or gals)	Cost per Unit	Monthly Cost
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00

Chemical Name	Units (lbs or gals)	Cost per Unit	Monthly Cost
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00

Total Chemical Cost:

Electrical Cost

Treatment Facility:	<input type="text"/>
Low Service (if separate):	<input type="text"/>
High Service (if separate):	<input type="text"/>

Total Electrical Cost:

Gas for heating:

Total Heating Cost:

Additional Distribution Cost							
Booster Pump Station Name	Gallons Pumped	Electricity	chemical (lbs or gals)	cost per lb or gal	chemical cost	Station Cost	Cost of Production plus Distribution Per Thousand

Total Production Cost for Month:

Total Distribution Cost for Month:

Total:

Production Cost Per Thousand Gallons:

Average Production + Distribution:

# Monthly Excavation Break Report

**Estill County Water Dist.** (name of Water System)

**Ky0330123** (PWSID)

Month: **January**  
Year: **2019**

diameter in inches

Hole = **3**

Area = **7.065** sq. in.

length (in) width (in)

Crack = **48** **0.5**

Area = **24** sq. in.

**Page 19 of 39**  
Insert the approximate dimensions of the hole or crack to determine the area of the break. Insert the area in the spreadsheet below.

Date	Excavation Break Location	Excavator	Minutes	Hole or Crack?	Area of hole or crack	Normal PSI	GPM	Gallons Lost During Break
1/18/2019	Wisemantown Rd. 12" main		90	crack	24.000	80	4893	440,410

Total Gallons Lost Due to Excavation Breaks **440,410**



**Monthly Leak Repair Report**

**Estill County Water Dist.**  
(Water System)  
**Ky0330123**  
(PWSID)

Month **January**  
Year **2019**

diameter in inches  
Hole= **0.5**  
Area= **0.196** sq. in.

length (in) width (in)  
Crack= **4** **0.18**  
Area= **0.72** sq. in.

Insert the approximate dimensions of the hole or crack to determine the area of the break. Insert the area in the spreadsheet below.

Date of Repair	Location of Leak or Line Break	Days Line Leaked?	Hole or Crack?	Area of hole or crack	Normal PSI	GPM	Calculated Loss for Month	Estimated Loss for Month
1/2/19	556 Pea Ridge Rd. 3/4" service	12	hole			0	0	17,280
1/7/19	S. Winn Ave 3/4" service	17	hole			0	0	48,960
1/10/19	W. Cedar Grove 2" main	14	hole			0	0	403,200
1/18/19	Old Landing 3/4" service	7	hole			0	0	151,200

Total Gallons Lost Due to Line Breaks **620,640**

### DBP Maintenance Flushing (Hydrants and Tanks)

**Estill County Water Dist.**

(name of Water System)

Month  
Year

January

2019

**Ky0330123**

(PWSID)

Formula:  $GPM = 29.83 \text{ cd}^2 \sqrt{p}$

unit conversion factor  
coefficient value

29.83

0.95

Date	Indicate Water Storage Tank Name or Hydrant Location and/or Number	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pitot Pressure	GPM	Gallons Flowed	Estimated or Metered Flow

Total Gallons for Month

# Monthly Hydrant Flushing Report (Flushing for other than DBP maintenance)

Estill County Water Dist. (name of Water System)

Month Year  
January 2019

Ky0330123 (PWSID)

unit conversion factor  
coefficient value  
29.83  
0.95

Formula:  $GPM = 29.83 \text{ cd}^2 \sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pitot Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
1/18/2019	South Irvine	flushing	25.00	2.5	30	970	24,253	
1/18/2019	Wisemantown	flushing	30.00	2.5	30	970	29,103	

Total Gallons for Month 53,356

**Fire Department - Water Usage Report Form**

KRS 278.170(3) 807 KAR 5:095 Section 9

Any city, county, urban-county, charter county, fire protection district, or volunteer fire protection district ("User") may withdraw water from the utility's water distribution system for the purpose of fighting fires or training firefighters at no charge on the condition that it maintains estimates of the amount of water used for fire protection and training during the calendar month and reports the amount of this water usage to the utility no later than the 15th day of the following calendar month.

Any city, county, urban-county, charter county, fire protection district, or volunteer fire protection district that withdraws water from the utility's water distribution system for fire protection or training purposes and fails to submit the required report on water usage in a timely manner shall be assessed the cost of this water.

A non-reporting user's usage shall be presumed to be 0.3 percent of the utility's total water sales for the calendar month.

<input type="text"/>	(name of Fire Department)	<b>Month Year</b>	<input type="text"/>
<input type="text"/>	(name of Water System)		<input type="text"/>

unit conversion factor	29.83
coefficient value	0.95

<b>Date</b>	<b>Hydrant Location and/or Number</b>	<b>Reason Operated</b>	<b>Total Minutes Operated</b>	<b>Nozzle size (typically 2.5 or 4.5)</b>	<b>Pitot Pressure</b>	<b>GPM</b>	<b>Gallons Flowed</b>	<b>Estimated Flow if Pitot not used</b>

**Total Gallons for Month**

## Monthly Water Use Report

Water Utility: Estill County Water Dist. PWSID: Ky0330123

For the Month of: January Year: 2019

1	PRODUCTION COST PER THOUSAND	\$0.00
2	PURCHASE COST PER THOUSAND	\$3.13

**GALLONS**

<b>WATER PRODUCED or PURCHASED</b>			
3	Water Produced	\$0.00	0.0%
4	Water Purchased	\$59,822.13	19,112,500 100.0%
5	<b>TOTAL PRODUCED AND PURCHASED</b>		19,112,500
6	<b>TOTAL COST</b>	\$59,822.13	

**WATER SOLD**

7	Residential	11,432,310	
8	Commercial	1,107,360	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	<b>TOTAL WATER SOLD</b>	12,539,670	65.6%
14	<b>TOTAL WATER NOT SOLD</b>	6,572,830	<b>34.4%</b>

**BREAKDOWN OF WATER USAGE**

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	53,356	\$167.00
18	Fire Department Usage	0	
19	DBP Flushing <span style="margin-left: 20px;">DBP Maintenance</span>	0	
20	<b>TOTAL USAGE</b>	53,356	
21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>		<b>34.1%</b>

**BREAKDOWN OF WATER LOST**

22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	440,410	\$1,378.48
24	Repaired Line Breaks	620,640	\$1,942.60
25	Unknown Loss	5,458,424	<b>28.6%</b>
26	<b>TOTAL WATER NOT SOLD OR USED</b>	<b>6,519,474</b>	
27	<b>COST OF WATER NOT SOLD OR USED</b>	<b>\$20,405.95</b>	

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

28	"Unknown Loss"	5,458,424	
29	% "Unknown Loss"	28.6%	
30	Number of Days in Period	31	
31	"Unknown Loss" per Day (Gallons per Day)	176,078	
32	"Unknown Loss" per Minute (GPM)	122.28	
33	"Unknown Loss" Cost for Month	\$17,084.87	

## Monthly Water Use Report

Water Utility:  PWSID:

For the Month of:  Year:

Line #	Item	Gallons	
1	<b>Water Produced, Purchased and Distributed</b>		
2	Water Produced	0	
3	Water Purchased	19,112,500	
4	<b>Water Produced &amp; Purchased</b>	<b>19,112,500</b>	
5			
6	<b>Water Sales</b>		
7	Residential	11,432,310	
8	Commercial	1,107,360	
9	Industrial	0	
10	Bulk Loading Stations	0	
11	Wholesale	0	
12	Other Sales (explain) _____ 0	0	
13	<b>Total Water Sales</b>	<b>12,539,670</b>	<b>65.6%</b>
14			
15	<b>Other Water Used</b>		
16	Utility and/or Water Treatment Plant	0	
17	Wastewater Treatment Plant	0	
18	System Flushing	53,356	
19	Fire Department Usage	0	
20	Other Usage (explain) _____ DBP Maintenance	0	
21	<b>Total Other Water Used</b>	<b>53,356</b>	<b>0.3%</b>
22			
23	<b>Water Loss</b>		
24	Tank Overflows	0	
25	Line Breaks	1,061,050	
26	Line Leaks	5,458,424	
27	Other _____		
28	<b>Total Line Loss</b>	<b>6,519,474</b>	<b>34.1%</b>
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>Water Loss Percentage</b>		
33	<b>Unaccounted-For Water (Line 28 Divided by Line 4)</b>	<b>34.1%</b>	

# Comments and Adjustments

Estill County Water Dist.

PWSID: Ky0330123

January

2019

In the areas below list any comments, adjustments, etc. to explain monthly water accountability entries.

# Monthly Water Accountability Reports

Month:  Year:

Water System:  PWSID:

Contact Person:  Phone:

Mailing Address:  State:  Zip:   
City:

<b>Cubic Feet Conversion:</b>	<input type="text"/>	cubic feet equals	<input type="text" value="0"/>	gallons	
	<input type="text"/>	gallons equals	<input type="text" value="0"/>	cubic feet	
	<input type="text"/>	ft <sup>3</sup> costing	<input type="text"/>	equals	<input type="text"/>



**All Utilities**

401 KAR 8:150

Section 4:

(2) Line repairs due to breaks or ruptures.

(a) The system shall thoroughly flush the break area and maintain at least a minimum disinfectant residual, pursuant to Section 1(1) of this administrative regulation.

(b) The system may leave the line in service or return the line to service before receiving bacteriological results and may forego a boil water advisory if:

1. Pressure is maintained;
2. The break area is thoroughly flushed; and
3. At least the minimum disinfectant residual is maintained, pursuant to Section 1(1) of this administrative regulation.

(c)1. The system shall take at least two (2) bacteriological tests, one (1) located before, or just upstream of, the break or rupture, and one (1) located behind, or just downstream of, the break or rupture, as close to the break or rupture as practical pursuant to 40 C.F.R. 141.21. Additional samples may be required, if necessary to be representative of the area affected by the break.

2. Sample bottles shall be clearly identified as "special" tests, and the results submitted to the cabinet shall be clearly marked as "special" samples

(d)1. Records of results shall be submitted to the cabinet with routine monthly compliance samples, unless the samples are required to lift a boil water advisory, and shall be maintained for one (1) year. 2. Samples needed to remove a boil water advisory shall be submitted to the cabinet as soon as the results are known.

(e) A water system shall notify the cabinet immediately if:

1. The pressure drops below twenty (20) pounds per square inch in the distribution system surrounding the break; or
2. A break or rupture occurs that requires more than eight (8) hours to repair, with the eight (8) hours beginning when the water system becomes aware of the break.

(f) Boil Water Advisories shall be issued in accordance with 401 KAR 8:020, Section 2(9).

(g) Reports pursuant to 401 KAR 8:020, Section 2(7)(c) shall not be required for a loss of pressure, break, or rupture occurring in service lines serving only one (1) single family residence.

(h)1. A community or nontransient noncommunity public water system shall maintain a log of all breaks or ruptures, which shall include the:

- a. Date and location of the break or rupture;
  - b. Time it was discovered;
  - c. Population affected;
  - d. Length of time required to repair the break or rupture;
  - e. Date and time disinfectant residuals are detected; and
  - f. Date and time bacteriological samples are taken.
2. The log shall be available for inspection by the cabinet.

**Utilities under PSC jurisdiction**

807 KAR 5:006. General Rules.

Section 27. Reporting of Accidents, Property Damage or Loss of Service. (1) Within two (2) hours following discovery each utility, other than a natural gas utility, shall notify the commission by telephone or electronic mail of any utility related accident which results in:

(a) Death; or shock or burn requiring medical treatment at a hospital or similar medical facility, or any accident requiring inpatient overnight hospitalization;

(b) Actual or potential property damage of \$25,000 or more; or

(c) Loss of service for four (4) or more hours to ten (10) percent or 500 or more of the utility's customers, whichever is less.

(2) A summary written report shall be submitted by the utility to the commission within seven (7) calendar days of the utility related accident. For good cause shown, the executive director of the commission, may, upon application in writing, allow a reasonable extension of time for submission of this report.

807 KAR 5:066. Water.

Section 3. (4) (b) Report to the commission. If a utility is required by the Natural Resources Cabinet to make a public notification pursuant to administrative regulations of the Natural Resources Cabinet, the utility shall provide the commission with a copy of the

<b>DOW:</b>	502-564-3410	(normal hours)
	502-564-2380	(after hours)
	800-928-2380	(chemical spills)

<b>PSC:</b>	502-564-3940	
	1-800-772-4636	(Hotline)

Monthly Line Break Log

(water system) Estill County Water Dist.

Month February
Year 2019

PWSID Ky0330123

Table with columns: Date, Location, Time Found, Population Affected, Time for Repair, Disinfectant Residuals (Date, Time, Result), Bact Samples (Date, Time, Result). The table is mostly empty with some rows shaded.

# Boil Water Advisory

This consumer advisory is being issued by:  
Estill County Water Dist.

## What should you do?

Although **NO CONTAMINATION HAS BEEN CONFIRMED** we recommend: Bring all water to a rolling boil, let it boil for three (3) minutes, and let it cool before using, or use bottled water. Boiled or bottled water should be used for drinking, making ice, brushing teeth, washing dishes, and food preparation until further notice. Boiling kills bacteria and other organisms in the water.

## What are the areas being affected? (insert areas)

People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice from their health care providers about drinking water.

## What happened? (explain details)

## How are we correcting the problem? (explain)

**We apologize for any inconvenience this may have caused you. This advisory was issued as a precautionary action and can only be lifted with the approval of the Kentucky Division of Water. When all appropriate laboratory testing is completed and the Kentucky Division of Water allows us to lift the advisory, we will inform you when you no longer need to boil your water.**

For more information, please contact: Willie Murphy  
76 Cedar Grove Rd.  
(606)723-3795 Irvine  
Ky 40336

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

This notice is being sent to you by: Estill County Water Dist.  
Public Water System ID #: Ky0330123

Date \_\_\_\_\_

**Spanish** - Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

Basic Costs of Water Production and Distribution

Month:

Year:

System Name:

PWSID:

Total Gallons Treated:

Man-Hours Cost (for hours actually worked at treatment plant)

Employee Name	Hourly Wage	Hourly Fringe	Hours Worked	Monthly Cost

This report does not include analytical and other water system operational or maintenance costs. For determining customer and wholesale rates consider a cost of service study.

Total Man-Hours Cost

Chemical Cost

Chemical Name	Units (lbs or gals)	Cost per Unit	Monthly Cost
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00

Chemical Name	Units (lbs or gals)	Cost per Unit	Monthly Cost
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00

Total Chemical Cost:

Electrical Cost

Treatment Facility:	<input type="text"/>
Low Service (if separate):	<input type="text"/>
High Service (if separate):	<input type="text"/>

Total Electrical Cost:

Gas for heating:

Total Heating Cost:

Additional Distribution Cost							
Booster Pump Station Name	Gallons Pumped	Electricity	chemical (lbs or gals)	cost per lb or gal	chemical cost	Station Cost	Cost of Production plus Distribution Per Thousand

Total Production Cost for Month:

Total Distribution Cost for Month:

Total:

Production Cost Per Thousand Gallons:

Average Production + Distribution:

**Monthly Excavation Break Report**

(name of Water System)

(PWSID)

Month   
Year

**Area Calculator**  
Question 1 Attachment

diameter in inches  
Hole =   
Area =  sq. in.

length (in) width (in)  
Crack =    
Area =  sq. in.

**Page 32 of 39**  
Insert the approximate dimensions of the hole or crack to determine the area of the break. Insert the area in the spreadsheet below.

Date	Excavation Break Location	Excavator	Minutes	Hole or Crack?	Area of hole or crack	Normal PSI	GPM	Gallons Lost During Break
1/26/2019	Doe Creek Rd. 6" Main		360	hole	1.650	100	502	180,540
2/2/2019	Haris Ferry Rd. Meter Bottom		240	hole	0.080	125	27	6,524
2/15/2019	Doe Creek Rd. 4" Main		420	crack	0.019	140	5	2,096

**Total Gallons Lost Due to Excavation Breaks**

**Monthly Leak Repair Report**

**Estill County Water Dist.**

(Water System)

**Ky0330123**

(PWSID)

Month **February**  
Year **2019**

diameter in inches

Hole= 0.5

Area= 0.196 sq. in.

length (in) width (in)

Crack= 4 0.18

Area= 0.72 sq. in.

Insert the approximate dimensions of the hole or crack to determine the area of the break. Insert the area in the spreadsheet below.

Date of Repair	Location of Leak or Line Break	Days Line Leaked?	Hole or Crack?	Area of hole or crack	Normal PSI	GPM	Calculated Loss for Month	Estimated Loss for Month
1/26/19	Burton Williams Rd. 3/4" Service	2	hole			0	0	100,800
2/2/19	Drowning Creek Rdg Meter Bottom	3	hole			0	0	43,200
2/4/19	Wolfingbarger Ln. Meter Bottom	1	hole			0	0	7,200
2/4/19	Redlick Rd. Meter Bottom	7	hole			0	0	201,600
2/12/19	Beatyville Rd. Leak in Box	2	hole			0	0	28,800
2/17/19	Jakes Heavenly Highway 6" Main	3.5	hole			0	0	403,200

Total Gallons Lost Due to Line Breaks **784,800**



**Monthly Hydrant Flushing Report (Flushing for other than DBP maintenance)**

**Estill County Water Dist.** (name of Water System)

Month **February**  
Year **2019**

**Ky0330123** (PWSID)

unit conversion factor **29.83**  
coefficient value **0.95**

Formula:  $GPM = 29.83 cd^2 \sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pitot Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
2/15/2019	Barnes Mtn Rd.	flushing	25.00	2.5	35	1048	26,196	
2/16/2019	South Irvine	flushing	20.00	2.5	45	1188	23,763	
2/17/2019	Middle Fork	flushing	30.00	2.5	40	1120	33,605	

**Total Gallons for Month** **83,564**



# Fire Department - Water Usage Report Form

KRS 278.170(3) 807 KAR 5:095 Section 9

Any city, county, urban-county, charter county, fire protection district, or volunteer fire protection district ("User") may withdraw water from the utility's water distribution system for the purpose of fighting fires or training firefighters at no charge on the condition that it maintains estimates of the amount of water used for fire protection and training during the calendar month and reports the amount of this water usage to the utility no later than the 15th day of the following calendar month.

Any city, county, urban-county, charter county, fire protection district, or volunteer fire protection district that withdraws water from the utility's water distribution system for fire protection or training purposes and fails to submit the required report on water usage in a timely manner shall be assessed the cost of this water.

A non-reporting user's usage shall be presumed to be 0.3 percent of the utility's total water sales for the calendar month.

<input type="text"/>	(name of Fire Department)	<b>Month</b>	<input type="text"/>
<input type="text"/>	(name of Water System)	<b>Year</b>	<input type="text"/>

<b>unit conversion factor coefficient value</b>	29.83
	0.95

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pitot Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used

<b>Total Gallons for Month</b>	<b>0</b>
--------------------------------	----------

**Monthly Water Use Report**Water Utility: **Estill County Water Dist.** PWSID: **Ky0330123**For the Month of: **February** Year: **2019**

1	<b>PRODUCTION COST PER THOUSAND</b>	\$0.00
2	<b>PURCHASE COST PER THOUSAND</b>	\$3.13

**GALLONS**

<b>WATER PRODUCED or PURCHASED</b>			
3	Water Produced	\$0.00	0.0%
4	Water Purchased	\$59,822.13	100.0%
5	<b>TOTAL PRODUCED AND PURCHASED</b>	19,112,500	
6	<b>TOTAL COST</b>	\$59,822.13	

**WATER SOLD**

7	Residential	11,432,310	
8	Commercial	1,107,360	
9	Industrial		
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales (explain)		
13	<b>TOTAL WATER SOLD</b>	12,539,670	65.6%
14	<b>TOTAL WATER NOT SOLD</b>	6,572,830	34.4%

**BREAKDOWN OF WATER USAGE**

15	Water Treatment Plant		
16	Wastewater Treatment Plant		
17	System Flushing	83,564	\$261.55
18	Fire Department Usage	0	
19	DBP Flushing	0	
20	<b>TOTAL USAGE</b>	83,564	
21	<b>WATER LOSS PERCENTAGE FOR RATE PURPOSES</b>		<b>34.0%</b>

**BREAKDOWN OF WATER LOST**

22	Tank Overflows (other than for DBP maintenance)		
23	Excavation Breaks	189,161	\$592.07
24	Repaired Line Breaks	784,800	\$2,456.42
25	Unknown Loss	5,515,306	28.9%
26	<b>TOTAL WATER NOT SOLD OR USED</b>	6,489,266	
27	<b>COST OF WATER NOT SOLD OR USED</b>	\$20,311.40	

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

28	"Unknown Loss"	5,515,306
29	% "Unknown Loss"	28.9%
30	Number of Days in Period	31
31	"Unknown Loss" per Day (Gallons per Day)	177,913
32	"Unknown Loss" per Minute (GPM)	123.55
33	"Unknown Loss" Cost for Month	\$17,262.91



## Monthly Water Use Report

Water Utility: Estill County Water Dist. PWSID: Ky0330123

For the Month of: February Year: 2019

Line #	Item	Gallons	
1	<b>Water Produced, Purchased and Distributed</b>		
2	Water Produced	0	
3	Water Purchased	19,112,500	
4	<b>Water Produced &amp; Purchased</b>	<b>19,112,500</b>	
5			
6	<b>Water Sales</b>		
7	Residential	11,432,310	
8	Commercial	1,107,360	
9	Industrial	0	
10	Bulk Loading Stations	0	
11	Wholesale	0	
12	Other Sales (explain) _____ 0	0	
13	<b>Total Water Sales</b>	<b>12,539,670</b>	<b>65.6%</b>
14			
15	<b>Other Water Used</b>		
16	Utility and/or Water Treatment Plant	0	
17	Wastewater Treatment Plant	0	
18	System Flushing	83,564	
19	Fire Department Usage	0	
20	Other Usage (explain) _____ DBP Maintenance	0	
21	<b>Total Other Water Used</b>	<b>83,564</b>	<b>0.4%</b>
22			
23	<b>Water Loss</b>		
24	Tank Overflows	0	
25	Line Breaks	973,961	
26	Line Leaks	5,515,306	
27	Other _____		
28	<b>Total Line Loss</b>	<b>6,489,266</b>	<b>34.0%</b>
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>Water Loss Percentage</b>		
33	<b>Unaccounted-For Water (Line 28 Divided by Line 4)</b>	<b>34.0%</b>	

# Comments and Adjustments

Estill County Water Dist.

PWSID: Ky0330123

February

2019

In the areas below list any comments, adjustments, etc. to explain monthly water accountability entries.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 2

Responding Witness: Audrea Miller

- Q-2. Describe in detail the procedure utilized in preparing monthly water use and loss reports, including, but not limited to, the following:**
- a. How the utility calculates water loss, water treatment plant usage, system flushing, and disinfection byproduct 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 the utility includes water loss from known leaks and breaks in the water loss category.**
- A-2.**
- a. Estill County Water District No. 1 currently uses Kentucky Rural Water Association's Water Accountability Reporting System to determine its water loss.
  - b. Dwight Richardson, Field Operations Manager (resigned Feb. 1, 2019); Audrea Miller, Acting Manager.
  - c. Water loss category includes tank overflows and known line breaks.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 3

Responding Witness: Audrea Miller

- Q-3. State whether the water utility 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. A copy of last completed water loss detection plan is attached.
  - b. Not applicable.

## **Estill County Water District WATER LOSS PREVENTION AND LEAK DETECTION PROGRAM**

Estill County Water District has a distribution system that is comprised of approximately 400 miles of water pipe. The line size ranges from 12 inch down to 2 inch, with the majority of the lines being PVC. We have approximately 4000 customer services, 10 pumping stations, and 10 storage tanks. Estill County Water District purchases its water from Irvine Municipal Utilities and Jackson Water Association via 4 master meters. Water loss has been a continuing problem for the District for the past few years. The District is committed to allocating a sufficient amount of resources to identify and correct water loss, thus improving its operating efficiencies.

The following plan was derived using guidelines set forth in the Kentucky Public Service Commissions components of a water loss plan outline. The District's water loss prevention and leak detection plan outlines processes and procedures that the District has been and will continue to conduct on a routine basis (both in a reactive and proactive mode) to identify and repair water line leaks, identify and monitor un-metered water usage, prevent tank overflows, and reduce its overall water loss.

1. Daily Master Meter Reading- master meters are monitored weekly and pump run times and tanks levels are monitored daily through the District's telemetry system. A history is kept of all tank levels and pump run times.
2. Consecutive Timely Individual Meter Reading- all 4000 individual electronic meters in our distribution system are read in a 3.5 day time line. Our meters are read consistently beginning on the 10<sup>th</sup> of the month and only varying from the schedule only when a weekend or holiday fall on the in the 3.5 day time line.
3. Zoning- the water District has worked with Kentucky Rural Water Association and our engineers to divide its distribution system into eight (8) zones that can be isolated to account for water usage in each zone. There are maps on file in the District's office to show the different zones.
4. Billing Software Utilization- the district has purchased new billing software to have enhanced reporting capabilities. Monthly billing records are used to determine water usage in the different zones in the District.
5. Monitor Meter Installation- the water district has purchased meter sets with double shut off valves to install in small sections of areas with dead end lines with customers of one hundred (100) customers or less. The installation of these meters is currently underway.
6. Storage Tank Metering- the Estill County Water District has purchased a portable flow meter to use to monitor water flow from each tank as well as to check the GPM accuracy of the pumps. The portable flow meter may also be used to monitor the amount of water entering each zone for a comparison with each individual customer meter.
7. Pressure Reading- the water district installs a pressure recorder monthly and keeps all recordings on file.

8. Meter Test & Change Outs- all residential meters have been replaced as of January 1, 2009. The meters in the system at this time are less than two (2) years old. The district has a certified meter test bench and district employees have been training with a C I Thornburg technician to further their education in meter testing in order to be certified meter testers in the near future.
9. Part-time Operator- the water district's board of commissioners has discussed hiring a part time operator to allow existing employees ample time to utilize the leak detection equipment as well as search for leaks in the distribution system.
10. Infrastructure Replacement- sections in the water distribution system that have been determined to be prone to leaks, due to age of line or installation procedures in the past, are being replaced. At this time the district, with the help of our engineers, are putting together plans for a new project, the project profile is set to be presented to the Bluegrass Area Development District for ranking in the next 1-2 months.
11. Pressure Reduction- the district has utilized tank pressure in one zone of our area to take one pump off line therefore reducing pressure on an older line in the distribution system. Leaks in this area have diminished considerably due to fewer pressure fluctuations.
12. Equipment Upgrades- in the past few months the district has allocated \$15,000.00 for the purchase of several new pieces of equipment including a listening device, a line locator, and a flow meter to help locate leaks throughout our distribution system.

The Estill County Water District's Board of Commissioners as well as its employees have been and will continue to be committed to the reduction of the districts water loss. With continual monitoring, planning, and education it is the districts goal to lower the district water loss percentage to a level acceptable to the Kentucky Public Service Commission.



**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 4

Responding Witness: Audrea Miller

**Q-4. State whether the water utility 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. No.

- b. Estill County Water District No. 1 has experienced significant financial and management problems in recent years. These problems are detailed in its application in PSC Case No. 2018-00276. All members of its board of commissioners resigned in Spring 2018. The new board members have focused their attention on obtaining a restructuring of outstanding debt. Pursuant to the Public Service Commission's Order of December 21, 2018 in PSC Case No. 2018-00276, Estill County Water District No. 1 is currently preparing a comprehensive water loss control plan and has retained an engineering firm to assist in that preparation. It expects to file such report with the Public Service Commission no later than May 15, 2019.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 5

Responding Witness: Audrea Miller

- Q-5. Describe and provide the results of all water loss reduction projects that the water utility has initiated from January 1, 2015, to the date of the issuance of this Order.**
- A-5. Estill County Water District No. 1 has not initiated a major water loss reduction project in the period since January 1, 2015.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 6

Responding Witness: Audrea Miller

**Q-6. Provide a copy of the utility's most recent and updated annual and long-range Capital Improvement Plans.**

A-6. Estill County Water District No. 1 does not currently have a capital improvement plan. It plans to develop annual and long-range plans in conjunction with the development of its water loss control plan.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 7

Responding Witness: Audrea Miller

- Q-7. 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-7. The persons or agencies assisting Estill County Water District No. 1 in these areas are: the Bluegrass Area Development District; Kentucky Rural Water Association, and Bell Engineering.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 8

Responding Witness: Audrea Miller

**Q-8. Provide a copy of the utility's preventative maintenance program for the plant, pump, and storage facilities.**

A-8. Estill County Water District No. 1 does not have a written preventative maintenance program.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 9

Responding Witness: Audrea Miller

- Q-9. State whether the water utility has assigned specific personnel the responsibility to detect and fix of water line leaks, and if so, state the names and job titles of such personnel and describe the functions and duties of each.**
- A-9. Estill County Water District No. 1 has not assigned specific personnel the responsibility to detect and repair leaks. All field personnel are responsible for detecting and repairing leaks.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 10

Responding Witness: Audrea Miller

**Q-10. State whether leak detection is conducted on a daily basis, and if not, state the reasons why not.**

A-10. Estill County Water District No. 1 conducts leak detection on a daily basis.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 11

Responding Witness: Audrea Miller

- Q-11. 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 Order.**
- A-11. Estill County Water District No. 1 repaired 40 leaks during this period. See Attachment to this Response.







# Monthly Leak Repair Report

**Estill County Water Dist.**  
 (Water System)

**Kv0330123**  
 (PWSID)

diameter in inches

Hole= 0.5

Area= 0.196 sq. in.

length (in) width (in)

Crack= 4 0.18

Area= 0.72 sq. in.

Insert the approximate dimensions of the hole or crack to determine the area of the break. Insert the area in the spreadsheet below.

Month **October**

Year **2018**

Date of Repair	Location of Leak or Line Break	Days Line Leaked?	Hole or Crack?	Area of hole or crack	Normal PSI	GPM	Calculated Loss for Month	Estimated Loss for Month
10/3/18	Lees Acres 3/4" service	14	hole			0	0	302,400
10/6/18	Barnes Mt. Rd. 3/4" service	3	hole			0	0	64,800
10/9/18	Under Irvine Bridge 3/4" service	1	hole			0	0	21,600
10/19/18	Murphys Ford Rd. regulator leak	5	hole			0	0	144,000
	Opossum Run Rd. meter bottom	30	hole			0	0	864,000
10/20/18	Redlick Rd. 3" main	3	hole			0	0	108,000

**Total Gallons Lost Due to Line Breaks** **1,504,800**

# Monthly Excavation Break Report

**Estill County Water Dist.** (name of Water System)

**Ky0330123** (PWSID)

Month: **October**  
Year: **2018**

diameter in inches

Hole = 0.5

Area = 0.196 sq. in.

length (in) width (in)

Crack = 6 0.25

Area = 1.5 sq. in.

Area Calculator  
Insert the approximate dimensions of the hole or crack to determine the area of the break. Insert the area in the spreadsheet below.

Date	Excavation Break Location	Excavator	Minutes	Hole or Crack?	Area of hole or crack	Normal PSI	GPM	Gallons Lost During Break
10/6/2018	Sandhill Rd. 6" main		360	crack	0.190	80	39	13,946

Total Gallons Lost Due to Excavation Breaks **13,946**



# Monthly Leak Repair Report

<b>Estill County Water Dist.</b> (Water System)
<b>Ky0330123</b> (PWSID)
<b>Month</b>
<b>November</b>
<b>Year</b>
<b>2018</b>

diameter in inches

Hole= 0.5

Area= 0.196 sq. in.

length (in) width (in)

Crack= 4 0.18

Area= 0.72 sq. in.

Insert the approximate dimensions of the hole or crack to determine the area of the break. Insert the area in the spreadsheet below.

Date of Repair	Location of Leak or Line Break	Days Line Leaked?	Hole or Crack?	Area of hole or crack	Normal PSI	GPM	Calculated Loss for Month	Estimated Loss for Month
10/25/18	Redlick Rd. 3" main	1	hole			0	0	36,000
10/29/18	Pearidge Rd. 3/4" service line	10	hole			0	0	28,800
11/7/18	Brown Ridge Rd. 3/4" service line	14	hole			0	0	100,800
11/7/18	2035 Opossum Run meter bottom	19	hole			0	0	547,200
11/8/18	Stacy Ln. 3/4" service line	20	hole			0	0	57,600
11/8/18	Redlick Rd. 3" main	7	hole			0	0	100,800
11/14/18	Lilly Ferry 4" main	3	hole			0	0	64,800
11/14/18	Old Landing Rd. 3/4" service line	26	hole			0	0	112,320

**Total Gallons Lost Due to Line Breaks** **1,048,320**

**Monthly Leak Repair Report**

<b>Estill County Water Dist.</b>
(Water System)
<b>Ky0330123</b>
(PWSID)

diameter in inches  
 Hole= 0.5  
 Area= 0.196 sq. in.

Insert the approximate dimensions of the hole or crack to determine the area of the break. Insert the area in the spreadsheet below.

<b>Month</b>	<b>December</b>
<b>Year</b>	<b>2018</b>

length (in) width (in)  
 Crack= 4 0.18  
 Area= 0.72 sq. in.

Date of Repair	Location of Leak or Line Break	Days Line Leaked?	Hole or Crack?	Area of hole or crack	Normal PSI	GPM	Calculated Loss for Month	Estimated Loss for Month
12/6/18	Old PeaRidge pump station	16	hole			0	0	691,200
12/6/18	Cobhill 3/4" service line	10	hole			0	0	72,000
12/11/18	Under Irvine Bridge 6" main	5	hole			0	0	144,000
12/12/18	Under Irvine Bridge 3/4" service	2	hole			0	0	432,000

**Total Gallons Lost Due to Line Breaks** **1,339,200**











**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 12

Responding Witness: Audrea Miller

- Q-12. Provide copies of each work order generated to investigate leaks reported by customers of the utility from September 1, 2018, to the date of the issuance of this Order.**
- A-12. See Attachment to this Response.

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 09/04/18 SCHEDULED TIME: PM:
INSTRUCTIONS: CHECK FOR A LEAK SHE CANT FIND ANYTHING
USEAGE BEEN UP FOR 2 MONTHS

WORK ORDER NO : 22615

37.703400
84.063170

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:105-01500-00 CITY: IRVINE KY
NAME : PAIRELEE HARDY OWNER : OWNER
S/ADDR : 5600 RICHMOND RD O/ADDR :
PHONE : 606 723 - 4505
OWNER PHONE: -

ISSUED: 09/04/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 901 08/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773724 12897765 26105 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 05/10/18 to 08/10/18 and usage values.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 26324

Material- Item No Part Description Quantity

Comments: NOT TURNING

Date Completed: 9-4-18 By: WJM/VT Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 22616
SCHEDULED DATE: 09/04/18 SCHEDULED TIME: PM:
INSTRUCTIONS: USAGE IS UP CAN WE CHECK FOR A LEAK

37.718060
84.082910

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:105-14100-00 CITY: IRVINE KY
NAME :CLAUDE D ROSE OWNER : OWNER
S/ADDR :1920 TROTting RIDGE RD O/ADDR :
PHONE :606 723 - 3277
OWNER PHONE: -

ISSUED: 09/04/18 BY: AUDREA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 853 08/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60941552 12895902 64469 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 08/10/18 to 05/10/18 and meter readings.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 65022

Material- Item No Part Description Quantity

Comments: Not turning

Date Completed: 9-4-18 By: [Signature] Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 22617
SCHEDULED DATE: 09/04/18 SCHEDULED TIME: PM:
INSTRUCTIONS: USEAGE IS UP AND SHE CANT FIND ANYTHING WRONG
WATER WAS OVER METER

37.705812
83.835605

METER LOCATION: 681960
IN:

\*\*\*\*\*

ACCOUNT:110-11100-01 CITY: IRVINE KY
NAME :ANITA ROGERS OWNER :
S/ADDR :2054 COBHILL RD O/ADDR :
PHONE :260 824 - 5485
OWNER PHONE: -

ISSUED: 09/04/18 BY: SHANA COMPLETED:
\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 742 08/14 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68515845 13432189 18821 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 08/14/18 to 05/14/18 and usage values.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 18941

Material- Item No Part Description Quantity

Comments: not running

Date Completed: 9-5-18 By: EG Time:

CHECKLIST/TYPE: CHECK  
SCHEDULED DATE: 09/04/18 SCHEDULED TIME: PM:  
INSTRUCTIONS: LEAK AT THE BRIDGE NEED TO CHECK

WORK ORDER NO : 22619

37.606620  
84.095750

METER LOCATION:

IN: 05/27/09

\*\*\*\*\*

ACCOUNT:111-10700-01 CITY:  
NAME :JERRY BAKER OWNER :  
S/ADDR :11901 RED LICK RD O/ADDR :  
PHONE :859 489 - 6482  
OWNER PHONE: -  
ISSUED: 09/04/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	CURRENT	TY:	G	USE:	DATE	MAKE	SERIAL	REMOTE	MXUID
5/8 in.					29180 A	G		152	08/13				
1:	SEN	68515606		13394842	29180 A								
2:													
3:													
4:													

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	08/13/18	29180	29028	152 A	5286	05/27/09	CHECK
	07/11/18	29028	28809	219 A	10270	04/02/12	CHECK
	06/12/18	28809	28648	161 A	7862	10/11/10	CHECK
	05/11/18	28648	28554	94 A	5794	08/26/09	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No	Part Description	Quantity

Comments: Fixed 1<sup>st</sup> Line

Date Completed: 9-5-18 By: R.E. Wm. Vt. D2. Time: \_\_\_\_\_



CHECKLIST/TYPE: CHECK WORK ORDER NO : 22620
SCHEDULED DATE: 09/04/18 SCHEDULED TIME: PM:
INSTRUCTIONS: SAYS SHE THINKS THERE IS A LEAK IN THE METER BOX
CANT TELL WHAT SIDE ITS ON CAUSE WATER COMES
IN FASTER THAN YOU CAN DIP IT OUT

37.714820
84.059730

METER LOCATION: HADS LEAK

IN: 10/18/13

\*\*\*\*\*

ACCOUNT:105-20350-00 CITY: IRVINE KY
NAME :PENNY HARDY OWNER : OWNER
S/ADDR :40 HENRY WHITE RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 09/04/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 695 08/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68515872 12895707 42055 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 05/10/18 to 08/10/18.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. All fields are blank.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 42437

Material- Item No Part Description Quantity

Comments: NO Water in Box NO Leak meter is not turning

Date Completed: 9-4-18 By: RE Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK  
SCHEDULED DATE: 09/04/18 SCHEDULED TIME: PM:  
INSTRUCTIONS: SAYS METER IS LEAKING ON OUR SIDE

WORK ORDER NO : 22621

37.710510  
84.017150

METER LOCATION:

IN: 01/30/07

\*\*\*\*\*

ACCOUNT:101-33840-01 CITY: IRVINE KY  
NAME :DELBERT ESTES OWNER : OWNER  
S/ADDR :190 WALNUT GROVE O/ADDR :  
PHONE : -  
OWNER PHONE: -

ISSUED: 09/04/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.					408				
	60773485				19497				

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	08/10/18	19497	19089	408 A	6470	12/21/09	CHECK
	07/10/18	19089	18711	378 A	9201	07/25/11	CHECK
	06/11/18	18711	18330	381 A	8955	06/06/11	CHECK
	05/10/18	18330	18062	268 A	8376	01/25/11	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 19817

Material- Item No                    Part Description                    Quantity

Comments: METER TURNING NO LEAK ON US

Date Completed: 9-4-18 By: WML/UT Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 09/06/18 SCHEDULED TIME: PM:
INSTRUCTIONS: SAYS WE HAVE A LEAK AT THE METER

WORK ORDER NO : 22637

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:102-16100-10 CITY:
NAME :DEANA OSBORNE OWNER : STEVE YOUNG
S/ADDR :282 MCKEE RD O/ADDR :
PHONE :606 643 - 9986
OWNER PHONE: -

ISSUED: 09/06/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

Table with columns: SIZE, MAKE, SERIAL, REMOTE, MXUID, CURRENT, USAGE, MAKE, SERIAL, REMOTE, MXUID. Row 1: 5/8 in., G, 308, 08/13, SEN 61268729, 13110955, 35311 A.

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 08/13/18 to 05/11/18 and types like CHECK.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: No leak

Date Completed: 9-6-18 By: [Signature] Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK  
 SCHEDULED DATE: 09/07/18 SCHEDULED TIME: PM:  
 INSTRUCTIONS: SAYS BOYS RAN OVER WATER METER WITH LAWNMOWER  
 AND NO HIS USEAGE IS HIGH BUT HE FIXED A TOILET  
 CAN WE CHECK AND SEE IF HE HAS A LEAK HE CANT TELL 37.811820  
 NO THAT IT DONT HAVE THE DIAL 84.064560  
 METER LOCATION: LEAK ADJ

WORK ORDER NO : 22644

IN: 07/01/13

\*\*\*\*\*

ACCOUNT:107-33300-00 CITY: IRVINE KY  
 NAME : CHARLES SMITH OWNER : OWNER  
 S/ADDR : 10295 WINCHESTER RD O/ADDR :  
 PHONE : 606 723 - 6922  
 OWNER PHONE: -

ISSUED: 09/07/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE SERIAL	TY:	REMOTE	G USE:	MXUID	575	08/14	*	CURRENT *	MAKE SERIAL	REMOTE MXUID
1:	SEN 72008555				12875083				9573 A *		
2:								*			
3:								*			
4:								*			

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	08/14/18	9573	8998	575 A	10399	05/02/12	CHECK
	07/12/18	8998	8372	626 A	22458	08/01/18	CHECK
	06/13/18	8372	8235	137 A	12789	09/27/13	CHECK
	05/14/18	8235	8118	117 A	12280	07/01/13	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
____	____	____	____
____	____	____	____
____	____	____	DISTRICT SIDE
____	____	____	____
____	____	____	REGULATOR
____	____	____	____
____	____	____	____

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 9668

Material- Item No Part Description Quantity

Comments: NO LEAK METER ok

Date Completed: 9-10-18 By: LM/EE Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 09/14/18 SCHEDULED TIME: PM:
INSTRUCTIONS: THINKS THE METER IS LEAKING
BAD WET SPOT 3 OR 4 FT FROM METER

WORK ORDER NO : 22668

37.840660
83.963910

METER LOCATION:

IN:

ACCOUNT:107-66300-00 CITY: IRVINE KY
NAME :TIMOTHY BRANDENBURG OWNER : OWNER
S/ADDR :4937 SPOUT SPRINGS RD O/ADDR :
PHONE :606 723 - 2247
OWNER PHONE: -

ISSUED: 09/14/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 210 09/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773305 12910254 38810 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 05/14/18 to 08/14/18 and a check entry on 07/19/18.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: NO Chlorine

Date Completed: 9-19-18 By: EE Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 09/14/18 SCHEDULED TIME: PM:
INSTRUCTIONS: SAYS METER IS SPINNING AROUND REAL FAST
SHAKING AND EVERYTHING
NEED A READING

WORK ORDER NO : 22669

37.783430
84.016820

METER LOCATION:

IN: 04/20/18

\*\*\*\*\*

ACCOUNT:107-09000-05 CITY:
NAME :HILLYARD ROBERTS OWNER :
S/ADDR :70 KING CEMETERY RD O/ADDR :
PHONE :606 726 - 9854
OWNER PHONE: -

ISSUED: 09/14/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 161 09/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60885539 13432819 54005 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 05/14/18 to 08/14/18 and usage values.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: CAUSED BY LEAK ON 6" MAIN
W & PATRICK FARM

Date Completed: 9-14-18 By: DR Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK  
SCHEDULED DATE: 09/17/18 SCHEDULED TIME: PM:  
INSTRUCTIONS: WILSON SAYS WE HAVE A LEAK HERER

WORK ORDER NO : 22673

37.673270  
83.932170

METER LOCATION:

IN: 02/12/07

\*\*\*\*\*

ACCOUNT:102-30100-01 CITY: IRVINE KY  
NAME :WILSON PLOWMAN OWNER :  
S/ADDR :55 OLD LANDING RD O/ADDR :  
PHONE :606 975 - 0122  
OWNER PHONE: -

ISSUED: 09/17/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.					88				
	SEN	82405243		12767863		2044	A		

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	08/13/18	1956	1814	142			
	07/11/18	1814	1709	105	22659	09/11/18	OFF
	06/12/18	1709	1554	155	19591	01/27/17	CHECK
	05/11/18	1554	1492	62			

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: Leak's o.k.

Date Completed: 9-27-18 By: FE Time: \_\_\_\_\_

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22674

SCHEDULED DATE: 09/18/18 SCHEDULED TIME: PM:

INSTRUCTIONS: PLACE IN HIS DRIVEWAY THAT STAYS WET WHERE THEY PUT IN NEW WATER LINE CAN WE CHECK

37.690940  
83.990730

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:103-00600-07

CITY:

NAME :JAMES MORGAN

OWNER :

S/ADDR :502 WISEMANTOWN RD

O/ADDR :

PHONE :859 200 - 4372

OWNER PHONE: -

ISSUED: 09/18/18 BY: SHANA

COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 674 09/11 \*

MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID

1: SEN 60643362 12738477 35780 A \*

2: \*

3: \*

4: \*

\*\*\*\*\*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE

08/10/18 35106 34635 471 A 19533 01/20/17 CHECK

07/10/18 34635 34073 562 A 21776 03/29/18 CHECK

06/11/18 34073 33142 931 A 20372 07/14/17 CHECK

05/10/18 33142 32343 799 A 19606 01/31/17 CHECK

\*\*\*\*\*CHECK

\_\_\_ PRESSURE \_\_\_ SIZE OF LEAK \_\_\_ GPM LOST \_\_\_ CUSTOMER SIDE

\_\_\_

\_\_\_

\_\_\_ DISTRICT SIDE

\_\_\_

\_\_\_ REGULATOR

\_\_\_

\_\_\_

\_\_\_

\_\_\_

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: Not a leak no chlorine

Date Completed: 9-20-18 By: DR Time: \_\_\_\_\_



WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 09/19/18 SCHEDULED TIME: PM:
INSTRUCTIONS: HAD A LEAK CONTRACTORS FAULT
NEEDS ADJ

WORK ORDER NO : 22678

37.684410
83.998590

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:103-02500-01 CITY: IRVINE KY
NAME :SHYLAH MCINTOSH OWNER : OWNER
S/ADDR :1178 WISEMANTOWN RD O/ADDR :
PHONE :859 398 - 5872
OWNER PHONE: -

ISSUED: 09/19/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 536 09/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60773186 12910057 63260 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 08/10/18 to 05/10/18 and usage values like 407 A, 493 A, 558 A, 406 A.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. All fields are currently blank.

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 63460

Material- Item No Part Description Quantity

Comments: NEEDS ADJ
FIXED LEAK

Date Completed: 9-18-18 By: Wm/UT Time: \_\_\_\_\_

Avg 466

$$\begin{array}{r} \text{W} \\ 568 - 60.18 \\ - 49.59 \\ \hline 10.39 \end{array}$$

$$\begin{array}{r} \text{UT} \\ 1.83 \\ - 1.49 \\ \hline .34 \end{array}$$

$$\begin{array}{r} \text{W} \\ 536 - 56.53 \\ 49.59 \\ \hline 69.4 \end{array}$$

$$\begin{array}{r} \text{UT} \\ 1.70 \\ 1.49 \\ \hline .23 \end{array}$$

$$\begin{array}{r} \text{W} \\ 47.53 \end{array}$$

$$\begin{array}{r} \text{UT} \\ 57 \end{array}$$

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22697

SCHEDULED DATE: 09/19/18 SCHEDULED TIME: PM:

INSTRUCTIONS: SAYS WE HAVE A LEAK ON OUR SIDE  
SAYS BOX IS FULL AND ALL DOWN THE DITCH LINE

37.679670  
84.002200

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:103-04480-00 CITY: IRVINE KY  
NAME :WAYNE TURPIN OWNER : OWNER  
S/ADDR :128 VC WITT RD O/ADDR :  
PHONE : -  
OWNER PHONE: -

ISSUED: 09/19/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 254 09/10 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: SEN 60773788 12895473 55661 A \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	08/10/18	55407	55151	256 A			
	07/11/18	55151	54954	197 A	15483	01/27/15	CHECK
	06/11/18	54954	54735	219 A			
	05/10/18	54735	54428	307 A			

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: Look's OK.

Date Completed: 9-28-18 By: EB Time: \_\_\_\_\_

CHECKLIST/TYPE: CHECK

WORK ORDER: Question 12 Attachment

SCHEDULED DATE: 10/01/18 SCHEDULED TIME: PM:

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INSTRUCTIONS: HAS A BIG WET SPOT IN YARD MAY WANT TO CHECK FOR A LEAK

37.67943

606-975-1227 MIKE BICKNELL PLEASE CALL AND LET HI 84.00547

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:103-05500-00 CITY: IRVINE KY
NAME :LEONA BICKNELL OWNER : OWNER
S/ADDR :1725 WISEMANTOWN RD O/ADDR :
PHONE :606 723 - 2373
OWNER PHONE: -

ISSUED: 10/01/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 23 09/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUI
1: 60773666 12894589 30256 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 06/11/18 to 09/10/18.

\*\*\*\*\*CHECK

Table for meter check with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: O.K. no water

Date Completed: 10-1-18 By: EE Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22747

SCHEDULED DATE: 10/01/18 SCHEDULED TIME: PM:

INSTRUCTIONS: SAYS THAT WATER IS RUNNING DOWN THE ROAD AT LEE ACRES WE MAY WANT TO CHECK RIGHT WHERE YOU TURN OFF BY THE CHURCH. VIA: CHRISTINE KIRBY

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:A00-00000-00

CITY:

NAME :

OWNER :

S/ADDR :

O/ADDR :

PHONE :

OWNER PHONE:

ISSUED: 10/01/18 BY: DEB

COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 3450 07/16 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 3450 \*
2: \*
3: \*
4: \*

\*\*\*\*\*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: Fixed it.

Date Completed: 10-3-18 By: [Signature] Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22763

SCHEDULED DATE: 10/02/18 SCHEDULED TIME: PM:

INSTRUCTIONS: ~~DO THEY HAVE A LEAK~~  
SAYS THERE IS A LEAK ON LEE ACRES ROAD

37.681960  
84.018900

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:104-01600-00 CITY: IRVINE KY  
NAME :ESTILL RIDDELL OWNER : OWNER  
S/ADDR :360 LEE ACRES RD O/ADDR :  
PHONE :606 723 - 4750  
OWNER PHONE: -

ISSUED: 10/02/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 225 09/10 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: 60773206 12894690 86986 A \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	09/10/18	86986	86761	225 A	14765	08/29/14	CHECK
	08/10/18	86761	86550	211 A	22504	08/14/18	CHECK
	07/10/18	86550	86339	211 A	22503	08/13/18	CHECK
	06/11/18	86339	86098	241 A	20218	06/12/17	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: \_\_\_\_\_

Date Completed: 10-3-18 By: VTW/SEE Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 10/03/18 SCHEDULED TIME: PM:
INSTRUCTIONS: TURNED OFF HAD LEAK
WILL FIX WHEN HE GETS HOME

WORK ORDER NO : 22765

37.747820
84.041500

METER LOCATION:

IN: 03/17/09

\*\*\*\*\*

ACCOUNT:106-14800-03 CITY: IRVINE KY
NAME :TIMOTHY DVORAK OWNER : OWNER
S/ADDR :145 COBB FORD RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 10/03/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 377 09/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68515535 13426489 9661 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 09/10/18 to 06/11/18 and usage values like 377 A, 25 A, 0 A, 21 A.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 10603

Material- Item No Part Description Quantity

Comments: On Call Turned off Leaking

Date Completed: 10-3-18 By: EE Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK  
SCHEDULED DATE: 10/08/18 SCHEDULED TIME: PM:  
INSTRUCTIONS: TURN OFF METER HAS A LEAK

WORK ORDER NO : 22781

37.755630  
84.035860

METER LOCATION:

IN: 04/14/08

\*\*\*\*\*

ACCOUNT:106-16900-02 CITY: IRVINE KY  
NAME :VICKEY WALLING OWNER : OWNER  
S/ADDR :4805 SANDHILL RD O/ADDR :  
PHONE :  
OWNER PHONE: -

ISSUED: 10/08/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	USE:	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.	SEN	68516762		13436048	1083	46401 A				
					09/10					
1:										
2:										
3:										
4:										

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	09/10/18	46401	45318	1083 A	13804	03/25/14	CHECK
	08/10/18	45318	43521	1797 A	22499	08/13/18	LEAK
	07/10/18	43521	43351	170 A	20206	06/07/17	CHECK
	06/11/18	43351	43087	264 A	20073	05/11/17	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
___	___	___	___
___	___	___	___
___	___	___	DISTRICT SIDE
___	___	___	___
___	___	___	___
___	___	___	REGULATOR
___	___	___	___
___	___	___	___

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: TUNED OFF

Date Completed: 10-8-18 By: WM/UT Time: \_\_\_\_\_



WORK ORDERS BY TYPE

CHECKLIST/TYPE: LEAK WORK ORDER NO : 22786
SCHEDULED DATE: 10/09/18 SCHEDULED TIME: PM:
INSTRUCTIONS: STATE CALLED SAID THE CONSTRUCTION WORKERS
HIT A LINE BETWEEN 4 AND 5 MILE MARKER ON RED LICK
DOWN BELOW DONALD ROSE

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:A00-00000-00 CITY:
NAME : OWNER :
S/ADDR : O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 10/09/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 3450 07/16 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 3450 \*
2: \*
3: \*
4: \*

\*\*\*\*\*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE

\*\*\*\*\*LEAK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: fix it

Date Completed: 10-9-18 By: [Signature] Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 22795
SCHEDULED DATE: 10/10/18 SCHEDULED TIME: PM:
INSTRUCTIONS: HE SAYS ALOT OF WATER RUNNING ON THE OTHER SIDE OF ROAD UNDER BLACK TOP

37.673270
83.932170

METER LOCATION:

IN: 02/12/07

\*\*\*\*\*

ACCOUNT:102-30100-01 CITY: IRVINE KY
NAME :WILSON PLOWMAN OWNER :
S/ADDR :55 OLD LANDING RD O/ADDR :
PHONE :606 975 - 0122
OWNER PHONE: -

ISSUED: 10/10/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 88 09/11 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 82405243 12767863 2044 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 06/12/18 to 09/11/18 and usage values like 2044, 1956, 1814, 1709, 1554, 88, 142, 105, 19591.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: NO LEAK

Date Completed: 10-10-18 By WM/EE Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 10/10/18 SCHEDULED TIME: PM:
INSTRUCTIONS: CHECK TO SEE IF THEY HAVE LEAK AT
EASTERN KY TAX LOW PRESSURE
BY ESTILL PAWN SHOP

WORK ORDER NO : 22800

37.700970
83.993790

METER LOCATION:

IN: 12/30/08

\*\*\*\*\*

ACCOUNT:101-10250-00 CITY:
NAME :SAVER GROUP OWNER :
S/ADDR :1290 RICHMOND RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 10/10/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 2443 09/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 63452510 13435995 207522 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 06/11/18 to 09/10/18.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: THEY HAVE PROBLEM INSIDE

Date Completed: 10-10-18 By: Um/UT Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 10/11/18 SCHEDULED TIME: PM:
INSTRUCTIONS: IS LEAKFINDER TURNING

WORK ORDER NO : 22802

37.713470
84.064260

METER LOCATION: HAS LEAK ADJ

996475
IN:

\*\*\*\*\*

ACCOUNT:105-12240-00 CITY: IRVINE KY
NAME :PAMELA W RICHARDSON OWNER : OWNER
S/ADDR :491 LAFAYETTE CIRCLE O/ADDR :
PHONE :606 723 - 7115
OWNER PHONE: -

ISSUED: 10/11/18 BY: AUDREA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 698 09/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60941513 12875441 26900 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 06/11/18 to 09/10/18 and usage values like 26900, 26202, 25654, 25460, 181.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 27485

Material- Item No Part Description Quantity

Comments: Turning slow

Date Completed: 10-11-18 By: Wm/ee Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK  
SCHEDULED DATE: 10/18/18 SCHEDULED TIME: PM:  
INSTRUCTIONS: HAS LEAK NEEDS WATER TURNED OFF

WORK ORDER NO : 22831

37.738870  
83.969520

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-00560-02 CITY: IRVINE KY  
NAME :PAM STONE OWNER :  
S/ADDR :583 DRY BRANCH RD O/ADDR :  
PHONE :859 622 - 1755  
OWNER PHONE: -

ISSUED: 10/18/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 346 10/15 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: SEN 60675782 12875093 26338 A \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	09/12/18	25992	25624	368 A			
	08/13/18	25624	25231	393 A	16496	07/16/15	CHECK
	07/12/18	25231	24845	386 A	16027	04/27/15	CHECK
	06/12/18	24845	24319	526 A	15616	02/18/15	CHECK

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE  
DISTRICT SIDE  
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: Turned off leak

Date Completed: 10-18-18 By: ER Time: \_\_\_\_\_

CHECKLIST/TYPE: CHECK WORK ORDER NO : 22832  
 SCHEDULED DATE: 10/19/18 SCHEDULED TIME: PM:  
 INSTRUCTIONS: CAN WE CHECK AND MAKE SURE LEAK FINDER ISNT  
 TURNING LANDLORD WAS SUPPOSED TO FIX LEAK AND SHE  
 ISNT SURE WHERE HER METER IS

37.725100  
84.023390

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:106-04650-02 CITY: IRVINE KY

NAME :BONNIE CARPENTER OWNER :

S/ADDR :75 SPRINGVIEW RD O/ADDR :

PHONE :859 595 - 7259

OWNER PHONE: -

ISSUED: 10/19/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 2471 10/11 \*

MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID

1: SEN 60784323 12930755 81400 A \*

2: \*

3: \*

4: \*

\*\*\*\*\*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE

09/10/18 78929 77434 1495 A 21197 12/20/17 CHECK

08/10/18 77434 75808 1626 A 22829 10/18/18 CHECK

07/10/18 75808 75272 536 A 21359 01/10/18 CHECK

06/11/18 75272 74893 379 A 21350 01/09/18 CHECK

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE

\_\_\_

\_\_\_ DISTRICT SIDE

\_\_\_

\_\_\_ REGULATOR

\_\_\_

\_\_\_

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 81435

Material- Item No Part Description Quantity

Comments: NOT TURNING

Date Completed: 10-19-18 By: Wm/ST Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 10/19/18 SCHEDULED TIME: PM:
INSTRUCTIONS: SAYS WATER IS RUNNING DOWN ROAD
MIGHT WANT TO CHECK FOR LEAK

WORK ORDER NO : 22837

37.691560
84.066970

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:104-16400-03 CITY: IRVINE KY
NAME : CHERYL PAOLINI OWNER :
S/ADDR : 1045 REGES RD O/ADDR :
PHONE : 606 560 - 3657
OWNER PHONE: -

ISSUED: 10/19/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 847 10/11 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60885657 12895437 48216 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 09/10/18 to 06/11/18 and corresponding meter readings and usage.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: surface water

Date Completed: 10-19-18 By: [Signature] Time:

CHECKLIST/TYPE: CHECK  
SCHEDULED DATE: 10/24/18 SCHEDULED TIME: PM:  
INSTRUCTIONS: SAYS THERE IS A BAD LEAK HERE

WORK ORDER NO : 22870

37.680870  
84.019830

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:104-01200-00 CITY: IRVINE KY  
NAME :AGNES MEANS OWNER : OWNER  
S/ADDR :566 PEA RIDGE RD O/ADDR :  
PHONE : -  
OWNER PHONE: -

ISSUED: 10/24/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE	MAKE	SERIAL	REMOTE	MXUID	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.			G	USE: 58	10/10 *				
1:	60773346			12897335	56558 A *				
2:					*				
3:					*				
4:					*				

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	09/10/18	56500	56430	70 A	13587	02/21/14	CHECK
	08/10/18	56430	56360	70 A	22688	09/19/18	CHECK
	07/10/18	56360	56292	68 A	18111	05/16/16	CHECK
	06/11/18	56292	56212	80 A	16701	08/14/15	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No          Part Description          Quantity

Comments: FIXED LEAK

Date Completed: 10-30-18 By: WML/EE Time: \_\_\_\_\_



CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 10/26/18 SCHEDULED TIME: PM:
INSTRUCTIONS: CHECK FOR A LEAK

WORK ORDER NO : 22879

37.793760
84.003630

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-51300-00 CITY: IRVINE KY
NAME :BILLY DON FARMER OWNER : OWNER
S/ADDR :805 SPOUT SPRINGS RD O/ADDR :
PHONE :606 723 - 5807
OWNER PHONE: -

ISSUED: 10/26/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 2092 10/15 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773216 12896271 39201 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 06/13/18 to 09/12/18.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: Leak on hot framing slow

Date Completed: 10-26-18 By: FEF Time:

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 10/29/18 SCHEDULED TIME: PM:
INSTRUCTIONS: HAS A LEAK CAN WE TURN OFF

WORK ORDER NO : 22883

37.706150
84.028830

METER LOCATION:

IN: 01/31/07

\*\*\*\*\*

ACCOUNT:101-36680-02 CITY: IRVINE KY
NAME :JENNIFER BARNES OWNER : OWNER
S/ADDR :415 RICE STATION RD O/ADDR :
PHONE :606 975 - 9533
OWNER PHONE: -

ISSUED: 10/29/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 66 10/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60773457 12920027 47337 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 06/11/18 to 09/10/18.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. All fields are blank.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: TURNED OFF

Date Completed: 10-29-18 By: WMLUT Time:

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22889

SCHEDULED DATE: 10/31/18 SCHEDULED TIME: PM:

INSTRUCTIONS: REPLACED HER SERVICE LINE AND STILL WATER COMING IN AROUND METER CAN WE GO CHECK AGAIN ITS STILL UNCOVERED RIGHT NOW

37.793760  
84.003630

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-51300-00 CITY: IRVINE KY  
NAME :BILLY DON FARMER OWNER : OWNER  
S/ADDR :805 SPOUT SPRINGS RD O/ADDR :  
PHONE :606 723 - 5807  
OWNER PHONE: -

ISSUED: 10/31/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 2092 10/15 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: 60773216 12896271 39201 A \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	09/12/18	37109	35558	1551 A			
	08/13/18	35558	33994	1564 A	22879	10/26/18	CHECK
	07/12/18	33994	33254	740 A			
	06/13/18	33254	32776	478 A			

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: She Fixed hit leak we might have a leak on the service line  
Needs Listing Device

Date Completed: 10-31-18 By: ER Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: LEAK
SCHEDULED DATE: 11/01/18 SCHEDULED TIME: PM:
INSTRUCTIONS: DO THEY HAVE A LEAK
THINK WE HAVE A LINE BUSTED IN FRONT OF DELMAR
MCGEES HOUSE ON SANDHILL RUNNING ACROSS THE ROAD
VIA ROGER THOMAS

WORK ORDER NO : 22895

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:A00-00000-00 CITY:
NAME : OWNER :
S/ADDR : O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 11/01/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 466 07/16 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 466 \*
2: \*
3: \*
4: \*

\*\*\*\*\*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE

\*\*\*\*\*LEAK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: FIXED REPLACED SERVICE LINE AND BOX

Date Completed: 11-8-18 By: WML/UT/EE/DR Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22906

SCHEDULED DATE: 11/05/18 SCHEDULED TIME: PM:

INSTRUCTIONS: SAYS WATER IS RUNNING DOWN THE HILL TO THE GRAVE YARD WE MAY NEED TO CHECK TO SEE IF WE HAVE A LEAK.

37.687720  
84.016330

METER LOCATION:

IN: 06/28/18

\*\*\*\*\*

ACCOUNT:101-46100-00 CITY: IRVINE KY  
NAME :LUTHER OLIVER OWNER : OWNER  
S/ADDR :1620 STACY LANE RD O/ADDR :  
PHONE :606 723 - 4169  
OWNER PHONE: -

ISSUED: 11/05/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 1157 10/10 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: IPE 69978530 12969921 25137 A \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	10/10/18	25137	23980	1157 A	20371	07/14/17	CHECK
	09/10/18	25006	24607	399 A	22398	07/18/18	CHECK
	08/10/18	24607	23980	627 A	22295	06/28/18	MC
	07/10/18	28266	28107	159 A	22187	06/14/18	LEAK

\*\*\*\*\*CHECK

\_\_\_ PRESSURE                      \_\_\_ SIZE OF LEAK                      \_\_\_ GPM LOST                      \_\_\_ CUSTOMER SIDE

\_\_\_

\_\_\_

\_\_\_ DISTRICT SIDE

\_\_\_

\_\_\_ REGULATOR

\_\_\_

\_\_\_

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No                      Part Description                      Quantity

Comments: fix service line LEAK

Date Completed: 11-8-18 By: W/Am/CE Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 22913
SCHEDULED DATE: 11/05/18 SCHEDULED TIME: PM:
INSTRUCTIONS: CHECK FOR A LEAK HE CANT SEE METER BOX IS FULL OF WATER
GET A READING

37.720000
83.825550

METER LOCATION: 663703
IN: 05/12/08

\*\*\*\*\*

ACCOUNT:110-15900-01 CITY: IRVINE KY
NAME :FRANCIS TRIONFI OWNER : OWNER
S/ADDR :420 STEWART FORK O/ADDR :
PHONE :313 971 - 9240
OWNER PHONE: -

ISSUED: 11/05/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

Table with columns: SIZE, MAKE, SERIAL, REMOTE, MXUID, CURRENT, USAGE, MAKE, SERIAL, REMOTE, MXUID. Row 1: 5/8 in, G, 447, 10/15, SEN 68516135, 13433007, 28321 A.

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates like 10/15/18, 09/12/18, 08/14/18, 07/12/18.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 28491

Material- Item No Part Description Quantity

Comments: talked to him

Date Completed: 11-5-18 By: vt/lum Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 11/05/18 SCHEDULED TIME: PM:
INSTRUCTIONS: CHECK METER FOR A LEAK AND READ

WORK ORDER NO : 22816

37.695290
83.979990

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:101-00710-01 CITY: IRVINE KY
NAME :KENTUCKY RIVER DENTISTRY OWNER :
S/ADDR :157 RICHMOND RD O/ADDR :
PHONE :

OWNER PHONE: 606 723-5911

ISSUED: 11/05/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 672 10/11 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773762 12896114 16333 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 07/10/18 to 10/11/18.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 16863

Material- Item No Part Description Quantity

Comments: turning slow

Date Completed: 11-6-18 By: VT/mm Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 11/06/18 SCHEDULED TIME: PM:
INSTRUCTIONS: DO THEY HAVE A LEAK
HAS NO WATER

WORK ORDER NO : 22820

37.784910
84.018830

METER LOCATION: HAS A LEAK ADJ

IN:

\*\*\*\*\*

ACCOUNT:107-09580-01 CITY: IRVINE KY
NAME :DENICE FENGER OWNER :
S/ADDR :799 HARGETT PARVIN RD O/ADDR :
PHONE :502 267 - 5521
OWNER PHONE: 606 723-6005
ISSUED: 11/06/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 2471 10/15 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60675083 12873403 192372 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 07/12/18 to 10/15/18.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 193414

Material- Item No Part Description Quantity

Comments: Already OK

Date Completed: 11-6-18 By: DJR FJE Time:



WORK ORDERS BY TYPE

CHECKLIST/TYPE: LEAK WORK ORDER NO : 22925  
 SCHEDULED DATE: 11/07/18 SCHEDULED TIME: PM:  
 INSTRUCTIONS: VIA GARY CONLEY AS YOU START DOWN BROWN  
 RIDGE ROAD WATER IS RUNNING DOWN THE ROAD  
 WE MAY WANT TO SEE IF WE HAVE A LEAK.

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:A00-00000-00 CITY:  
 NAME : OWNER :  
 S/ADDR : O/ADDR :  
 PHONE : -  
 OWNER PHONE: -

ISSUED: 11/07/18 BY: DEB COMPLETED:  
 \*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*  
 SIZE: 5/8 in. TY: G USE: 140 07/16 \*  
 MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
 1: 140 \*  
 2: \*  
 3: \*  
 4: \*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
----------	------	---------	----------	-------	-----------	------	------

\*\*\*\*\*LEAK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No	Part Description	Quantity
-------------------	------------------	----------

Comments: Replaced service line

Date Completed: 11-7-18 By: RE.VT.Wm.DA. Time: \_\_\_\_\_

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22949

SCHEDULED DATE: 11/12/18 SCHEDULED TIME: PM:

INSTRUCTIONS: NEEDS BACKHOE LEAK IN HIS DRIVEWAY PER EARL

37.674000  
83.931070

METER LOCATION:

IN: 06/01/09

\*\*\*\*\*

ACCOUNT:102-30500-03

CITY:

NAME :TIMOTHY PLOWMAN

OWNER :

S/ADDR :145 OLD LANDING RD

O/ADDR :

PHONE :606 975 - 6771

OWNER PHONE: -

ISSUED: 11/12/18 BY: SHANA

COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	USE:	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.					G	313				
1:	SEN	60773486		13111192		27395	A			
2:										
3:										
4:										

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	10/12/18	27395	27082	313 A	11968	04/25/13	CHECK
	09/11/18	27082	26684	398 A	22936	11/09/18	CHECK
	08/13/18	26684	25990	694 A	16395	06/29/15	CHECK
	07/11/18	25990	25706	284 A	11970	04/26/13	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No      Part Description      Quantity

Comments: Fixed

Date Completed: 11-14-18 By: DK [Signature] Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22954

SCHEDULED DATE: 11/13/18 SCHEDULED TIME: PM:

INSTRUCTIONS: SAYS WE HAVE LEAK IN THE MIDDLE OF THE ROAD  
MAY NEED TO CHECK ITS GOT REALLY BAD .  
HE SAID YOU ALL KNOW WHERE IT IS AT .

37.817990  
83.999510

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-58200-01 CITY: IRVINE KY  
NAME :RONALD JONES OWNER : OWNER  
S/ADDR :435 ED RIDDLE RD O/ADDR :  
PHONE :606 975 - 0527  
OWNER PHONE: -

ISSUED: 11/13/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE	MAKE	SERIAL	REMOTE	MXUID	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.					228				
1:	SEN	60773379		12910387	39592	A			
2:									
3:									
4:									

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	10/15/18	39592	39364	228 A			
	09/12/18	39364	39203	161 A	17736	03/01/16	CHECK
	08/14/18	39203	39032	171 A	12731	09/17/13	CHECK
	07/13/18	39032	38867	165 A	9136	07/11/11	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No                      Part Description                      Quantity

Comments: Fixed leak 4" main

Date Completed: 11/14/18 By: DR EE WSM Time: \_\_\_\_\_

CHECKLIST/TYPE: CHECK  
 SCHEDULED DATE: 11/01/18 SCHEDULED TIME: PM:  
 INSTRUCTIONS: USAGE IS UP. DOES SHE HAVE A LEAK

WORK ORDER NO : 22892

37.780500  
 84.029210

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-48100-02 CITY: IRVINE KY  
 NAME :PATRICIA CRUMP OWNER : OWNER  
 S/ADDR :15 ABNER RD O/ADDR :  
 PHONE :606 723 - 8531  
 OWNER PHONE: -

ISSUED: 11/01/18 BY: AUDREA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE SERIAL	REMOTE	TY:	G USE:	MXUID	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.			G	226	09/06	*				
	1: SEN 60773925				12897778	60937 A				
	2:									*
	3:									*
	4:									*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	09/06/16	60937	60711	226 A	18803	09/06/16	CHECK
	08/15/16	60711	60128	583 A	18705	08/23/16	CHECK
	07/14/16	60128	59677	451 A	13060	11/20/13	CHECK
	06/15/16	59677	58856	821 A			

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
___	___	___	___
___	___	___	___
___	___	___	DISTRICT SIDE
___	___	___	___
___	___	___	REGULATOR
___	___	___	___
___	___	___	___

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 73352

Material- Item No Part Description Quantity

Comments: Meter is off and Locked

Date Completed: 11-1-18 By: RE Time: \_\_\_\_\_

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 11/01/18 SCHEDULED TIME: PM:
INSTRUCTIONS: THINKS HIS NEIGHBOR HAS A LEAK MAY WANT TO CHECK TO MAKE SURE NOT ON US RUNNING DOWN ON HIS PROPERTY

WORK ORDER NO : 22893

37.678150
84.021320

METER LOCATION:

IN: 02/27/07

\*\*\*\*\*

ACCOUNT:103-21600-00 CITY: IRVINE KY
NAME :KENNETH FARTHING OWNER : OWNER
S/ADDR :357 PEA RIDGE RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 11/01/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 284 10/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60885649 12975644 50761 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 10/10/18 to 07/11/18 and usage values.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. All fields are currently blank.

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: NO Leak

Date Completed: 11-2-18 By: [Signature] Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 22898
SCHEDULED DATE: 11/02/18 SCHEDULED TIME: PM:
INSTRUCTIONS: NEEDS LISTENING DEVICE TO SE IF WE HAVE A LEAK ON SERVICE LINE

37.793760
84.003630

METER LOCATION:

IN:

ACCOUNT:107-51300-00 CITY: IRVINE KY
NAME :BILLY DON FARMER OWNER : OWNER
S/ADDR :805 SPOUT SPRINGS RD O/ADDR :
PHONE :606 723 - 5807
OWNER PHONE: -

ISSUED: 11/02/18 BY: SHANA COMPLETED:
\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*
SIZE: 5/8 in. TY: G USE: 2092 10/15 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773216 12896271 39201 A \*
2: \*
3: \*
4: \*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 10/15/18 to 07/12/18 and usage values like 39201, 37109, 1551, 1564, 740.

\*\*\*\*\*CHECK
PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: NO Leak

Date Completed: 11-2-18 By: [Signature] Time:

CHECKLIST/TYP: CHECK
SCHEDULED DATE: 11/02/18 SCHEDULED TIME: PM:
INSTRUCTIONS: USAGE IS UP DOES SHE HAVE A LEAK

WORK ORDER NO : 22899

37.669540
83.946810

METER LOCATION: HAS LEAK ADJ

725439
IN: 02/12/07

\*\*\*\*\*

ACCOUNT:102-25450-02 CITY: IRVINE KY
NAME :PATRICIA CRUMP OWNER : OWNER
S/ADDR :120 LITTLE DOE CREEK O/ADDR :
PHONE :859 298 - 1248
OWNER PHONE: -

ISSUED: 11/02/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 780 10/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60885765 12876102 60997 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 07/11/18 to 10/12/18.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR.

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 61441

Material- Item No Part Description Quantity

Comments: NOT turning

Date Completed: 11-2-18 By: VT/wm Time: \_\_\_\_\_

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22900

SCHEDULED DATE: 11/02/18 SCHEDULED TIME: PM:

INSTRUCTIONS: CHECK FOR A LEAK SAYS HE CANT FIND ANYTHING

37.707720  
84.026460

METER LOCATION:

F EXEMPT  
IN: 01/31/07

\*\*\*\*\*

ACCOUNT:101-36250-00 CITY: IRVINE KY  
NAME :OTIS WEST OWNER : OWNER  
S/ADDR :234 RICE STATION RD O/ADDR :  
PHONE : -  
OWNER PHONE: -

ISSUED: 11/02/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.				1131	10/10	*			
						*			
						*			
						*			

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	10/10/18	80449	79318	1131	A		
	09/10/18	79318	77773	1545	A		
	08/10/18	77773	76804	969	A		
	07/10/18	76804	76038	766	A		

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 81213

Material- Item No Part Description Quantity

Comments: NOT TURNING

Date Completed: 11-2-18 By: [Signature] Time: \_\_\_\_\_



CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22914

SCHEDULED DATE: 11/05/18 SCHEDULED TIME: PM:

INSTRUCTIONS: SAYS THERE S A BAD WATER LEAK AT HIS DRIVEWAY MAKING A REAL MESS

METER LOCATION: BLUE TIN BARN

IN: 05/10/17

\*\*\*\*\*

ACCOUNT:103-40440-00

CITY:

NAME :THOMAS FOWLES

OWNER :

S/ADDR :6800 RED LICK RD

O/ADDR :

PHONE :859 986 - 7890

OWNER PHONE: -

ISSUED: 11/05/18 BY: DEB

COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	TY:	G	USE:	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.					G		238	10/12				
1:	IPE	82552635		12895375				6398	A			
2:												
3:												
4:												

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	10/12/18	6398	6160	238	A		
	09/11/18	6160	5808	352	A	21633 02/28/18	CHECK
	08/13/18	5808	5560	248	A	20065 05/10/17	CHECK
	07/11/18	5560	5354	206	A	9064 06/27/11	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No      Part Description      Quantity

Comments: look like surface water do chlorine  
Need to check AGAIN when it is not  
so wet from RAIN

Date Completed: 11-6-18 By: DR EE Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 11/07/18 SCHEDULED TIME: PM:
INSTRUCTIONS: CHECK FOR A LEAK AND READ

WORK ORDER NO : 22927

37.641360
84.109830

METER LOCATION:

F EXEMPT
IN: 12/08/11

\*\*\*\*\*

ACCOUNT:111-06100-00 CITY:
NAME :DAVID MARCUM OWNER :
S/ADDR :1400 KNOB LICK RD O/ADDR :
PHONE :606 531 - 0059
OWNER PHONE: -
ISSUED: 11/07/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 601 10/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 63283317 14864657 20769 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates like 10/12/18 and 09/11/18 with corresponding meter readings and usage.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 20922

Material- Item No Part Description Quantity

Comments: NOT Turning

Date Completed: 11-7-18 By: DR FIE Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 22928

SCHEDULED DATE: 11/07/18 SCHEDULED TIME: PM:

INSTRUCTIONS: SAYS MAY HAVE LEAK ON OUR SIDE MAY NEED CHECK  
WATER IS STANDING AROUND THE METER

37.713670  
84.060210

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:105-20200-01 CITY: IRVINE KY  
NAME : PAUL/ANGIE WALTERS OWNER : OWNER  
S/ADDR : 2035 OPOSSUM RUN RD O/ADDR :  
PHONE : 606 723 - 8389  
OWNER PHONE: -

ISSUED: 11/07/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	USE:	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.					585	10/11				
1:	60784395			12875397		86857 A				
2:										
3:										
4:										

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	10/11/18	86857	86272	585 A	553	05/22/07	READ
	09/10/18	86272	85532	740 A	16826	09/02/15	CHECK
	08/10/18	85532	84972	560 A	3565	05/27/08	CHECK
	07/10/18	84972	84360	612 A	925	06/21/07	POOL

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 87364

Material- Item No Part Description Quantity

Comments: Replaced meter new meter IP  
85544829 IPER

Date Completed: 11-17-18 By: [Signature] Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 22936  
 SCHEDULED DATE: 11/09/18 SCHEDULED TIME: PM:  
 INSTRUCTIONS: DO WE HAVE LEAK ON OUR SIDE  
 HE CHECKED METER NOT TURNING ON HIS SIDE  
 WATER RUNNING IN DRIVEWAY AND UNDER HIS TRAILOR 37.674000  
 83.931070

METER LOCATION:

IN: 06/01/09

\*\*\*\*\*

ACCOUNT:102-30500-03 CITY:  
 NAME :TIMOTHY PLOWMAN OWNER :  
 S/ADDR :145 OLD LANDING RD O/ADDR :  
 PHONE :606 975 - 6771  
 OWNER PHONE: -

ISSUED: 11/09/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.	TY:	G	USE:	313	10/12	*			
1:	SEN	60773486		13111192	27395	A			
2:									
3:									
4:									

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	10/12/18	27395	27082	313 A	8107	11/19/10	CHECK
	09/11/18	27082	26684	398 A	16395	06/29/15	CHECK
	08/13/18	26684	25990	694 A	11970	04/26/13	CHECK
	07/11/18	25990	25706	284 A	11968	04/25/13	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No	Part Description	Quantity

Comments: needs backhoe

Date Completed: 11-12-18 By: FE Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 22942
SCHEDULED DATE: 11/12/18 SCHEDULED TIME: PM:
INSTRUCTIONS: SAYS WATER IS GOING EVERY WHERE
THEY THINK ITS A MAIN LINE MAY NEED TO CHECK

37.701390
84.046840

METER LOCATION:

IN: 01/21/15

\*\*\*\*\*

ACCOUNT:104-09900-06 CITY: IRVINE KY
NAME :WITTS COUNTRY MARKET OWNER :
S/ADDR :4650 RICHMOND RD O/ADDR :
PHONE :606 726 - 0026
OWNER PHONE: -

ISSUED: 11/12/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 1275 10/11 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 73446828 12965774 41594 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 07/10/18 to 10/11/18.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Drain

Comments: Drown Water

Date Completed: 11-12-18 By: [Signature] Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 11/12/18 SCHEDULED TIME: PM:
INSTRUCTIONS: CHECK FOR A LEAK AND GET READING

WORK ORDER NO : 22945

37.658100
84.032590

METER LOCATION:

IN: 05/10/08

\*\*\*\*\*

ACCOUNT:103-29100-00 CITY: IRVINE KY
NAME :CHESTER SCENTERS OWNER : OWNER
S/ADDR :1580 CROOKED CREEK ROAD O/ADDR :
PHONE :606 723 - 7253
OWNER PHONE: -

ISSUED: 11/12/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 797 10/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68515812 13435262 34514 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 10/12/18 to 07/11/18 and usage values.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. Rows are mostly blank with some lines.

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 34846

Material- Item No Part Description Quantity

Comments: NOT TUNING

Date Completed: 11-12-18 By: [Signature] Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 11/15/18 SCHEDULED TIME: PM:
INSTRUCTIONS: NEEDS NEW METER
MAY HAVE A LEAK

WORK ORDER NO : 22970

37.659870
84.010220

METER LOCATION:

IN: 05/17/08

\*\*\*\*\*

ACCOUNT:103-34800-00 CITY: IRVINE KY
NAME :ELMO NEWTON OWNER : OWNER
S/ADDR :372 NEWTON CIRCLE O/ADDR :
PHONE :606 723 - 3222
OWNER PHONE: -

ISSUED: 11/15/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 589 11/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68515983 13432468 81880 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 10/12/18 to 07/11/18.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

Handwritten note: old meter 81971

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: New meter Id. 85544825 New Reading 1

Date Completed: 11-15-18 By: EE DR Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 11/20/18 SCHEDULED TIME: PM:
INSTRUCTIONS: FIXED LEAK

WORK ORDER NO : 22988

37.679910
84.020380

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:104-00700-03 CITY: IRVINE KY
NAME :BOBBY ISAACS OWNER :
S/ADDR :470 PEA RIDGE RD O/ADDR :
PHONE :606 975 - 3341
OWNER PHONE: -

ISSUED: 11/20/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 15 11/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60773348 12897368 77221 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: FIXED LEAK ON SERVICE LINE

Date Completed: 11-20-18 By: WM/UT/EE/DR Time:



CHECKLIST/TYPE: CHECK WORK ORDER NO : 23001
SCHEDULED DATE: 11/20/18 SCHEDULED TIME: PM:
INSTRUCTIONS: SAYS WATER IS COMING OUT OF THE TOP OF HIS WATER METER BOX

37.703190
84.078040

METER LOCATION: PULLED AND PLUGGED 11/13/2018

IN: 09/25/18

\*\*\*\*\*

ACCOUNT:105-03600-07 CITY: IRVINE KY
NAME :JOE GOOSEY OWNER :
S/ADDR :848 WINSTON RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 11/20/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 165 11/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: IPE 84842493 15166695 927 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates like 10/15/18, 09/25/18, 07/23/13, 06/10/13 and values like 762, 0, 15825, 11440, 22952, 22703, 11449.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: FIXED

Date Completed: 11-21-18 By: [Signature] Time:

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 11/21/18 SCHEDULED TIME: PM:
INSTRUCTIONS: HAS A LEAK
TURN OFF TILL HE FIXES

WORK ORDER NO : 23005

37.713540
84.068160

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:105-12400-00 CITY: IRVINE KY
NAME :CHESTER RICHARDSON OWNER : OWNER
S/ADDR :980 TROTting RIDGE RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 11/21/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 907 11/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60941545 12873720 111675 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 10/11/18 to 07/10/18 and usage values like 764 A, 772 A, 797 A, 1988 A.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: turned off he has a leak
talk to him

Date Completed: 11-21-18 By: [Signature] Time:

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23023
SCHEDULED DATE: 11/29/18 SCHEDULED TIME: PM:
INSTRUCTIONS: NEED TO CHECK METER AND SEE IF ITS TURNING

37.673050
83.957070

METER LOCATION: HAS LEAK ADJ

IN: 02/09/07

ACCOUNT:102-23800-00 CITY: IRVINE KY
NAME :ROSETTA SPARKS OWNER : OWNER
S/ADDR :75 BONNIE LANE O/ADDR :
PHONE :606 723 - 3901
OWNER PHONE: -

ISSUED: 11/29/18 BY: SHANA COMPLETED:
\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*
SIZE: 5/8 in. TY: G USE: 1676 11/13 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60886017 12896142 40314 A \*
2: \*
3: \*
4: \*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE
10/12/18 38638 37307 1331 A
09/11/18 37307 36440 867 A
08/13/18 36440 35611 829 A
07/11/18 35611 34028 1583 A

\*\*\*\*\*CHECK
PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

Work Completed:

9060 gals
used since
11/13

New Set : Serial No: Remote: Read: 41220

Material- Item No Part Description Quantity

Comments: Turning slow

Date Completed: 11-29-18 By: wml/vf Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK  
 SCHEDULED DATE: 12/04/18 SCHEDULED TIME: PM:  
 INSTRUCTIONS: CHECK FOR A LEAK  
 SAYS HE HAD A PLUMBER FIX A LEAK ON HIS SIDE OF TH  
 E METER AND STILL HIS USAGE IS UP

WORK ORDER NO : 23043

37.699760  
83.825610

METER LOCATION: HAS LEAK ADJ

IN: 05/10/08

\*\*\*\*\*

ACCOUNT: 110-12250-01 CITY: IRVINE KY  
 NAME : CURTIS/CARLA SAYLOR OWNER : OWNER  
 S/ADDR : 1100 FLINCHUM RIDGE RD O/ADDR :  
 PHONE : 606 723 - 8148  
 OWNER PHONE: -

ISSUED: 12/04/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	5/8 in.	TY: G	USE:	840	11/14	*
MAKE	SERIAL	REMOTE	MXUID	CURRENT	* MAKE	SERIAL REMOTE MXUID
1:	SEN 68515794		13432263	31088	A *	
2:					*	
3:					*	
4:					*	

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	11/14/18	31088	30248	840			A
	10/15/18	30248	29491	757	21150	12/08/17	CHECK
	09/12/18	29491	28421	1070	2781	04/30/08	CHECK
	08/14/18	28421	27512	909			A

\*\*\*\*\*CHECK

___	PRESSURE	___	SIZE OF LEAK	___	GPM LOST	___	CUSTOMER SIDE
___		___		___		___	
___		___		___		___	DISTRICT SIDE
___		___		___		___	
___		___		___		___	REGULATOR
___		___		___		___	
___		___		___		___	

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 32613

Material- Item No	Part Description	Quantity
-------------------	------------------	----------

Comments: LEAK ON SEWER

Date Completed: 12-6-18 By: \_\_\_\_\_ Time: \_\_\_\_\_

WORK ORDERS BY TYPE

KLIST/TYPE: CHECK  
SCHEDULED DATE: 12/04/18 SCHEDULED TIME: PM:  
INSTRUCTIONS: HIGH USEAGE PLEASE CHECK

WORK ORDER NO : 28044

37.637620  
83.921880

WORK LOCATION:

IN: 05/18/08

\*\*\*\*\*

COUNT:109-04500-02 CITY: IRVINE KY  
OWNER : ANGELA SALYER  
ADDRESS: 3080 BARNES MOUNTAIN RD  
OWNER/O/ADDR :

PHONE :  
OWNER PHONE: -  
SCHEDULED: 12/04/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 1117 11/13 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
SEN 68516269 13435993 88267 A \*  
\*  
\*  
\*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	11/13/18	88267	87150	1117 A	15587	02/10/15	CHECK
	10/12/18	87150	86064	1086 A	15589	02/10/15	CHECK
	09/11/18	86064	85502	562 A	15342	12/22/14	CHECK
	08/13/18	85502	85025	477 A	3390	05/07/08	CHECK

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	DISTRICT SIDE
_____	_____	_____	_____
_____	_____	_____	REGULATOR
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 89038

Material- Item No Part Description Quantity

Comments: turning slowly

Date Completed: 12-6-18 By: WJE Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 12/05/18 SCHEDULED TIME: PM:
INSTRUCTIONS: HIGH USEAGE PLEASE CHECK

WORK ORDER NO : 23048

37.689530
84.067790

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:104-16900-01 CITY: IRVINE KY
NAME :TIM LUSTER OWNER :
S/ADDR :1215 REGES RD O/ADDR :
PHONE :859 893 - 2202
OWNER PHONE: -

ISSUED: 12/05/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 705 11/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60675275 12967742 91112 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 11/12/18 to 08/10/18 and usage values.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 91593

Material- Item No Part Description Quantity

Comments: NOT TURNING

Date Completed: 12-5-18 By: ljm EE Time:

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23049
SCHEDULED DATE: 12/05/18 SCHEDULED TIME: PM:
INSTRUCTIONS: CAN WE CHECK AND SEE IF HE HAS A LEAK
THINKS THE SEWER PEOPLE HAVE DONE SOMETHING

37.680440
84.004000

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:103-05100-04 CITY: IRVINE KY
NAME :PATSEY GRIFFIN OWNER : OWNER
S/ADDR :1590 WISEMANTOWN RD O/ADDR :
PHONE :606 723 - 9852
OWNER PHONE: -

ISSUED: 12/05/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 487 11/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773755 12895126 40071 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 11/12/18 to 08/10/18 and meter types like CHECK, COM, ON.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. Contains several empty rows for data entry.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 40336

Material- Item No Part Description Quantity

Comments: NOT TUNING

Date Completed: 12-5-18 By: WM/EE Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 12/11/18 SCHEDULED TIME: PM:
INSTRUCTIONS: NEED SOMEONE TO CHECK FOR A LEAK AND READ

WORK ORDER NO : 23067

50 CHARGE IF ON THEIR SIDE

37.696410
83.978160

METER LOCATION:

IN: 08/21/18

\*\*\*\*\*

ACCOUNT:102-00300-01 CITY: IRVINE KY
NAME :HARDEE'S OWNER : OWNER
S/ADDR :98 RICHMOND RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 12/11/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 6625 11/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 85176929 13439853 19405 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates like 11/12/18 and 10/11/18.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 25157

Material- Item No Part Description Quantity

Comments: METER TURNING 12/12/18 Rdy 252780 They have a leak (Lisa) Dwight talked to them

Date Completed: 12-11-18 By: Wm/vt Time:





CHECKLIST/TYPE: CHECK

WORK ORDER NO : 23070

SCHEDULED DATE: 12/12/18 SCHEDULED TIME: PM:

INSTRUCTIONS: THINKS THERE IS A PROBLEM THE PAVED THE ROAD YESTERDAY AND EVER SINCE THERE HAS BEEN WATER RUNNING ACROSS THE DRIVEWAY AND 37.676440 METER BOX IS FULL AND GROUND AROUND BOX ISREAL WET 84.008640

METER LOCATION:

IN: 01/26/07

\*\*\*\*\*

ACCOUNT:103-14400-03 CITY: IRVINE KY
NAME :LISA BARNETT OWNER :
S/ADDR :35 S WINN AVE O/ADDR :
PHONE :606 726 - 9172
OWNER PHONE: -

ISSUED: 12/12/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 487 11/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773523 12972874 75346 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 11/12/18 to 08/10/18.

\*\*\*\*\*

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: Leak is on His Side in yard, Did not fix

Date Completed: 12-13-18 By: DR Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: LEAK WORK ORDER NO : 23105  
SCHEDULED DATE: 12/18/18 SCHEDULED TIME: PM:  
INSTRUCTIONS: SAYS THERE IS WATER AND MUDD HOLE AT JOHNSON CEMETERY RD MAY WANT TO CHECK FOR A LEAK

*Next to Luther Oliver*

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:A00-00000-00 CITY:  
NAME : OWNER :  
S/ADDR : O/ADDR :  
PHONE :  
OWNER PHONE: -

ISSUED: 12/18/18 BY: DEB COMPLETED:  
\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 1467 07/16 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: 1467 \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE

\*\*\*\*\*LEAK

\_\_\_ PRESSURE \_\_\_ SIZE OF LEAK \_\_\_ GPM LOST \_\_\_ CUSTOMER SIDE  
\_\_\_  
\_\_\_  
\_\_\_ DISTRICT SIDE  
\_\_\_  
\_\_\_  
\_\_\_ REGULATOR  
\_\_\_

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: NO LEAK

Date Completed: 12-18-18 By: WML/T Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23117
SCHEDULED DATE: 12/26/18 SCHEDULED TIME: PM:
INSTRUCTIONS: THEY THINK WE HAVE A LEAK WHERE WE ALWAYS HAVE A LEAK IN THIS AREA

37.673860
83.990300

METER LOCATION:

IN: 02/08/07

\*\*\*\*\*

ACCOUNT:102-16900-00 CITY: IRVINE KY
NAME :SAMUEL COX OWNER : OWNER
S/ADDR :435 MCKEE RD O/ADDR :
PHONE :606 723 - 5095
OWNER PHONE: -

ISSUED: 12/26/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 326 12/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60886075 12967637 59957 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show historical meter data from 11/13/18 to 08/13/18.

\*\*\*\*\*CHECK\*\*\*\*\*

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 63011

Material- Item No Part Description Quantity

Comments: They have a leak Talk to them

Date Completed: 12-26-18 By: [Signature] Time:

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23121
SCHEDULED DATE: 12/26/18 SCHEDULED TIME: PM:
INSTRUCTIONS: DISPATCH CALLED AND SAID THE HYDRANT NEXT TO SMOKEY'S IS LEAKING.

37.697720
83.987080

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:101-03300-00 CITY: IRVINE KY
NAME :SMOKEY'S AUTO CENTER OWNER : OWNER
S/ADDR :24 SHADY LANE O/ADDR :
PHONE :606 723 - 4107
OWNER PHONE: -

ISSUED: 12/26/18 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 147 12/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773650 12896316 22038 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 11/12/18 to 08/10/18 and usage values.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: FIXED

Date Completed 12-28-18 By: [Signature] Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23128
SCHEDULED DATE: 12/31/18 SCHEDULED TIME: PM:
INSTRUCTIONS: WHEN YOUR OUT THAT WAY CHECK THIS AND SEE IF ITS TURNING AND READ IF ITS TURNING, TURN IT OFF

37.751000
83.978452

METER LOCATION: HAS LEAK ADJ 12/21/2018

IN:

\*\*\*\*\*

ACCOUNT:107-03600-05 CITY: IRVINE KY
NAME :GINA CLOYD OWNER :
S/ADDR :1566 DRY BRANCH RD O/ADDR :
PHONE :606 614 - 8115
OWNER PHONE: -

ISSUED: 12/31/18 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 0 12/21 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60675167 12895668 95925 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates like 12/21/18, 11/27/18, 09/25/18, 08/22/18 and values like 95925, 94410, 1854 A.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 96844

Material- Item No Part Description Quantity

Comments: Truning Truned off

Date Completed: 12-31-18 By: RE Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23280
SCHEDULED DATE: 02/01/19 SCHEDULED TIME: PM:
INSTRUCTIONS: CANT FIND METER AND NEEDS TO CHECK FOR A LEAK
CHECK FOR A LEAK AND READ

37.815820
84.055100

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-23300-04 CITY: IRVINE KY
NAME :CRYSTAL SINGER OWNER :
S/ADDR :172 STEPHENSON RD O/ADDR :
PHONE :606 723 - 0314
OWNER PHONE: -

ISSUED: 02/01/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 627 01/15 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60675019 15381608 95398 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 01/15/19 to 10/15/18.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 95654

Material- Item No Part Description Quantity

Comments: Not Turning

Date Completed: 2-1-19 By: DRELF Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: LEAK WORK ORDER NO : 23292
SCHEDULED DATE: 02/04/19 SCHEDULED TIME: PM:
INSTRUCTIONS: SAYS WE HAVE A LEAK ON OUR SIDE OF METER

37.742040
84.023140

METER LOCATION:

IN: 01/29/07

\*\*\*\*\*

ACCOUNT:106-12150-02 CITY: IRVINE KY
NAME :PATRICK RITTENHOUSE OWNER :
S/ADDR :175 WOLFINBARGER LANE O/ADDR :
PHONE :606 723 - 1124
OWNER PHONE: -

ISSUED: 02/04/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 516 01/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60885746 12873476 85000 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 01/10/19 to 10/11/18 and usage values like 85000, 84484, 83970, 83363, 82911, 516, 514, 607, 452.

\*\*\*\*\*LEAK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: REPLACED BOTTOM
NEEDS NEW METER

Date Completed: 2-4-19 By: WML/OT Time:

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23298
SCHEDULED DATE: 02/04/19 SCHEDULED TIME: PM:
INSTRUCTIONS: CAN WE CHECK FOR A LEAK SHE ISNT ABLE TO GO OUT AND LOOK

37.705720
84.048220

METER LOCATION:

IN: 03/20/17

\*\*\*\*\*

ACCOUNT:104-30600-00 CITY: IRVINE KY
NAME :FARRELL WILLIS OWNER : OWNER
S/ADDR :280 SUBSTATION RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 02/04/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 860 01/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: IPE 81764728 12967195 14621 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 01/10/19 to 10/11/18 and usage values like 860, 695, 771, 737.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 15241

Material- Item No Part Description Quantity

Comments: NOT TURNING

Date Completed: 2-4-19 By: WML/UT Time:



CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 02/05/19 SCHEDULED TIME: PM:
INSTRUCTIONS: FIXED LEAK ON SETTER
NEEDS ADJ

WORK ORDER NO : 23303

37.703280
84.063900

METER LOCATION:

IN: 10/19/07

\*\*\*\*\*

ACCOUNT:105-01620-00 CITY: IRVINE KY
NAME :SHELTON POWELL OWNER : OWNER
S/ADDR :5565 RICHMOND RD O/ADDR :
PHONE :
OWNER PHONE: -

ISSUED: 02/05/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 3651 01/10 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68489165 13304985 52540 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 01/10/19 to 10/11/18 and usage values.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 56902

Material- Item No Part Description Quantity

Comments:

Date Completed: 2-5-19 By: LM/VT/EE Time:

CHECKLIST/TYPE: CHECK WORK ORDER NO : 28310
SCHEDULED DATE: 02/06/19 SCHEDULED TIME: PM:
INSTRUCTIONS: CAN WE RECHECK METER READING AND SEE IF METER IS TURNING

37.681070
84.003110

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:103-04800-03 CITY: IRVINE KY
NAME :JOEY ARVIN OWNER :
S/ADDR :1522 WISEMANTOWN RD O/ADDR :
PHONE :859 779 - 8584
OWNER PHONE: -

ISSUED: 02/06/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 1979 01/14 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773752 12897810 98952 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 01/14/19 to 10/12/18.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 100670

Material- Item No Part Description Quantity

Comments: Telling I talk to him water is coming up about 20ft above meter box I turned it off

Date Completed: 2-6-19 By: EE Time:



CHECKLIST/TYPE: LEAK
SCHEDULED DATE: 02/19/19 SCHEDULED TIME: PM:
INSTRUCTIONS: LEAK IN METER BOX

WORK ORDER NO : 23327

37.654140
83.808540

METER LOCATION:

693997
IN: 05/03/08

\*\*\*\*\*

ACCOUNT:110-04400-00 CITY: IRVINE KY
NAME :JOHNNY ANN SAMPLES OWNER : OWNER
S/ADDR :11550 HWY 52 W O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 02/19/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 684 02/14 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68515930 13438188 38065 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 01/14/19 to 10/15/18 and usage types like CHECK, ON, LEAK.

\*\*\*\*\*LEAK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: Replace S.Bar

Date Completed: 2-19-19 By: FER Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23371
SCHEDULED DATE: 02/28/19 SCHEDULED TIME: PM:
INSTRUCTIONS: SAYS COUNTY HIT A LINE WATER IS POURING

37.573800
84.062810

METER LOCATION:

IN: 05/17/08

\*\*\*\*\*

ACCOUNT:111-15400-02 CITY:
NAME :BRIAN DIXON OWNER :
S/ADDR :1712 KISSEY BRANCH RD O/ADDR :
PHONE :606 723 - 0505
OWNER PHONE: -
ISSUED: 02/28/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 196 02/13 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68516079 13435948 49730 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 02/13/19 to 11/13/18 and meter readings.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: fix LEAK 3" line
2-3" couplings - 2foot 3" line

Date Completed: 3-1-19 By: VT/EE/wm Time:



CHECKLIST/TYPE: LEAK

WORK ORDER NO : 23292

SCHEDULED DATE: 02/04/19 SCHEDULED TIME: PM:

INSTRUCTIONS: SAYS WE HAVE A LEAK ON OUR SIDE OF METER

37.742040  
84.023140

METER LOCATION:

IN: 01/29/07

\*\*\*\*\*

ACCOUNT:106-12150-02 CITY: IRVINE KY

NAME :PATRICK RITTENHOUSE OWNER :

S/ADDR :175 WOLFINBARGER LANE O/ADDR :

PHONE :606 723 - 1124

OWNER PHONE: -

ISSUED: 02/04/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 516 01/10 \*

MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID

1: 60885746 12873476 85000 A \*

2: \*

3: \*

4: \*

\*\*\*\*\*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE

01/10/19 85000 84484 516 A

12/11/18 84484 83970 514 A 10557 06/01/12 CHECK

11/12/18 83970 83363 607 A 2374 03/31/08 CHECK

10/11/18 83363 82911 452 A

\*\*\*\*\*LEAK

\_\_\_ PRESSURE \_\_\_ SIZE OF LEAK \_\_\_ GPM LOST \_\_\_ CUSTOMER SIDE

\_\_\_

\_\_\_

\_\_\_ DISTRICT SIDE

\_\_\_

\_\_\_

\_\_\_ REGULATOR

\_\_\_

\_\_\_

\_\_\_

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: REPLACED BOTTOM  
NEEDS NEW METER

Date Completed: 2-4-19 By: WML/T Time: \_\_\_\_\_

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\*  
 SIZE: 5/8 in. TY: G USE: 3651 01/10 \*  
 MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
 1: SEN 68489165 13304985 52540 A \*  
 2: \*  
 3: \*  
 4: \*

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\*\*\*\*\*  
 HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE  
 01/10/19 52540 48889 3651 A 225 03/14/07  
 12/10/18 48889 48005 884 A 21330 01/08/18 CHECK  
 11/12/18 48005 47807 198 A 1526 10/19/07 MC  
 10/11/18 47807 47662 145 A 310 05/22/07 READ  
 \*\*\*\*\*CHECK

\*\*\*\*\*  
 PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE  
 DISTRICT SIDE  
 REGULATOR  
 \*\*\*\*\*

\*\*\*\*\*  
 Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 56902

Material- Item No Part Description Quantity

Comments: \_\_\_\_\_

Date Completed: 2-5-19 By: LJM/VT/EE Time: \_\_\_\_\_



105 01620-00      Shelton Powell

W  
4405 - 383.93

28.00  
355.93

UT  
11.52

84  
10.68

Ad; 3/21/19

CHECKLIST/TYPE: CHECK WORK ORDER NO : 28310
SCHEDULED DATE: 02/06/19 SCHEDULED TIME: PM:
INSTRUCTIONS: CAN WE RECHECK METER READING AND SEE IF METER IS TURNING

37.681070
84.003110

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:103-04800-03 CITY: IRVINE KY
NAME :JOEY ARVIN OWNER :
S/ADDR :1522 WISEMANTOWN RD O/ADDR :
PHONE :859 779 - 8584
OWNER PHONE: -

ISSUED: 02/06/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 1979 01/14 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60773752 12897810 98952 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 01/14/19 to 10/12/18 and meter readings.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 100670

Material- Item No Part Description Quantity

Comments: Tearing I talk to him water is coming up about 20ft above meter box I turned it off

Date Completed: 2-6-19 By: EE Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 23321

SCHEDULED DATE: 02/15/19 SCHEDULED TIME: PM:

INSTRUCTIONS: NO WATER

SAYS ALOT OF WATER IN THE ROAD AT THE OLD ALAN GARRETT HOUSE AND AT THE GARAGE ACROSS THE ROAD

37.614830  
84.026280

METER LOCATION:

F EXEMPT  
IN: 05/24/08

\*\*\*\*\*

ACCOUNT:103-39980-00 CITY: IRVINE KY  
NAME :WILLIAM TURNER OWNER : OWNER  
S/ADDR :374 JENKINS BRANCH RD O/ADDR :  
PHONE :606 723 - 6954  
OWNER PHONE: -

ISSUED: 02/15/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 412 01/14 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: SEN 68516305 13322707 92120 A \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	01/14/19	92120	91708	412 A	784	06/18/07	CHECK
	12/11/18	91708	91305	403 A	3087	05/05/08	CHECK
	11/13/18	91305	90925	380 A	2128	02/13/08	CHECK
	10/12/18	90925	90573	352 A	1666	11/09/07	CHECK

\*\*\*\*\*CHECK

\_\_\_ PRESSURE                      \_\_\_ SIZE OF LEAK                      \_\_\_ GPM LOST                      \_\_\_ CUSTOMER SIDE

\_\_\_

\_\_\_

\_\_\_ DISTRICT SIDE

\_\_\_

\_\_\_ REGULATOR

\_\_\_

\_\_\_

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No                      Part Description                      Quantity

Comments: HAD LEAK ON MAIN

Date Completed: 2-15-19 By: WM Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: LEAK
SCHEDULED DATE: 02/19/19 SCHEDULED TIME: PM:
INSTRUCTIONS: LEAK IN METER BOX

WORK ORDER NO : 23327

37.654140
83.808540

METER LOCATION:

693997
IN: 05/03/08

\*\*\*\*\*

ACCOUNT:110-04400-00 CITY: IRVINE KY
NAME :JOHNNY ANN SAMPLES OWNER : OWNER
S/ADDR :11550 HWY 52 W O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 02/19/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 684 02/14 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68515930 13438188 38065 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 01/14/19 to 10/15/18 and usage values like 259 A, 137 A, 171 A, 287 A.

\*\*\*\*\*LEAK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: Replace S.Bar

Date Completed: 2-19-19 By: FER Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23871
SCHEDULED DATE: 02/28/19 SCHEDULED TIME: PM:
INSTRUCTIONS: SAYS COUNTY HIT A LINE WATER IS POURING

37.573800
84.062810

METER LOCATION:

IN: 05/17/08

\*\*\*\*\*

ACCOUNT:111-15400-02 CITY:
NAME :BRIAN DIXON OWNER :
S/ADDR :1712 KISSEY BRANCH RD O/ADDR :
PHONE :606 723 - 0505
OWNER PHONE: -
ISSUED: 02/28/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 196 02/13 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68516079 13435948 49730 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 02/13/19 to 11/13/18 and usage values like 196, 212, 195, 283.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. Contains multiple rows of empty fields for data entry.

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: fix LEAK 3" line
2- 3" couplings - 2foot 3" line

Date Completed: 3-1-19 By: [Signature] Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 03/06/19 SCHEDULED TIME: PM:
INSTRUCTIONS: CHECK FOR A LEAK AND READ
HE IS IN THE HOSPITAL

WORK ORDER NO : 23402

37.762470
83.987210

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-06500-00 CITY: IRVINE KY
NAME :MICHAEL BARNES OWNER : OWNER
S/ADDR :2596 DRY BRANCH RD O/ADDR :
PHONE :606 723 - 4019
OWNER PHONE: -

ISSUED: 03/06/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 879 02/15 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60675108 12875088 93726 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 11/14/18 to 02/15/19.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read: 94243

Material- Item No Part Description Quantity

Comments: Meter read has leak

Date Completed: 3-6-19 By: JT/EE Time:

CHECKLIST/TYPE: LEAK
SCHEDULED DATE: 03/28/19 SCHEDULED TIME: PM:
INSTRUCTIONS: METER WAS LEAKING

WORK ORDER NO : 23521

37.693640
84.014210

METER LOCATION:

IN: 02/01/07

\*\*\*\*\*

ACCOUNT:101-48200-04 CITY: IRVINE KY
NAME :PHILLIP RIDDELL OWNER :
S/ADDR :1090 STACY LANE RD O/ADDR :
PHONE :606 723 - 6644
OWNER PHONE: -

ISSUED: 03/28/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 390 03/11 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60773401 12975497 84497 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 03/11/19 to 12/10/18.

\*\*\*\*\*LEAK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: Replaced Meter Gasket

Date Completed: 3-29-19 By: UT/BD Time:

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK
SCHEDULED DATE: 03/01/19 SCHEDULED TIME: PM:
INSTRUCTIONS: CHECK FOR LEAK IN YARD

WORK ORDER NO : 23380

37.771200
83.999180

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-07700-00 CITY: IRVINE KY
NAME :ROSCOE RUCKER OWNER : OWNER
S/ADDR :5430 WINCHESTER RD O/ADDR :
PHONE :606 723 - 3046
OWNER PHONE: -

ISSUED: 03/01/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 325 02/15 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 60675061 12876769 61515 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 02/15/19 to 11/14/18.

\*\*\*\*\*CHECK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: NO LEAK

Date Completed: 3-3-19 By: WM/BD Time:



WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23384
SCHEDULED DATE: 03/01/19 SCHEDULED TIME: PM:
INSTRUCTIONS: HAS LOW PRESSURE FOR A FEW DAYS
HE CHECKED METER AND ITS NOT TURNIONG

37.653360
84.059800

METER LOCATION: LEAK ADJ OUR SIDE 725344
IN: 03/08/16

\*\*\*\*\*

ACCOUNT:103-31620-00 CITY: IRVINE KY
NAME :CHRIS EPPERSON OWNER : OWNER
S/ADDR :555 ROUND MOUNTAIN RD O/ADDR :
PHONE :606 717 - 0214
OWNER PHONE: -

ISSUED: 03/01/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 355 02/13 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68515561 15312985 58966 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows show meter history from 02/13/19 to 11/13/18.

\*\*\*\*\*CHECK

Form with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. All fields are currently blank.

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: FIXED HAD LEAK ON MAIN

Date Completed: 3-4-19 By: LM Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK  
SCHEDULED DATE: 03/04/19 SCHEDULED TIME: PM:  
INSTRUCTIONS: USAGE IS UP, CAN WE CHECK FOR A LEAK

WORK ORDER NO : 23387

37.777630  
84.037830

METER LOCATION:

IN:

\*\*\*\*\*  
ACCOUNT:107-46400-00 CITY: IRVINE KY  
NAME :VERLON ROWLAND OWNER : OWNER  
S/ADDR :1225 OLD FOX RD O/ADDR :  
PHONE : -  
OWNER PHONE: -  
ISSUED: 03/04/19 BY: AUDREA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*  
SIZE: 5/8 in. TY: G USE: 345 02/15 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: 60773951 12897333 33881 A \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*  
HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE  
02/15/19 33881 33536 345 A 18798 09/06/16 CHECK  
01/15/19 33536 33355 181 A 14959 10/02/14 CHECK  
12/12/18 33355 33192 163 A 14954 10/01/14 CHECK  
11/14/18 33192 33033 159 A  
\*\*\*\*\*CHECK

\*\*\*\*\*  
PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE  
DISTRICT SIDE  
REGULATOR  
\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: 34020

Material- Item No Part Description Quantity

Comments: Turning slow

Date Completed: 3-5-19 By: EE Time: \_\_\_\_\_

83.980600

METER LOCATION:

IN:

\*\*\*\*\*  
ACCOUNT:107-61500-00 CITY: IRVINE KY  
NAME :JACKSON CHAPEL UMC OWNER : OWNER  
S/ADDR :3010 SPOUT SPRINGS RD O/ADDR :SANDRA ROSE  
PHONE : -  
OWNER PHONE: 606 663-5443  
ISSUED: 03/04/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*  
SIZE: 5/8 in. TY: G USE: 15 02/15 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: 60773295 12907480 9971 A \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*  
HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE  
02/15/19 9971 9956 15 A 1789 12/11/07 ON  
01/15/19 9956 9937 19 A 23379 03/01/19 CHECK  
12/12/18 9937 9917 20 A 5396 06/18/09 CHECK  
11/14/18 9917 9897 20 A 2307 03/19/08 CHECK  
\*\*\*\*\*CHECK

\*\*\*\*\*  
PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE  
DISTRICT SIDE  
REGULATOR  
\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: put new gasit in it

Date Completed: 3-5-19 By: EE Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 23394

SCHEDULED DATE: 03/05/19 SCHEDULED TIME: PM:

INSTRUCTIONS: SAYS THEY TURNED WATER OFF AT METER AND SAYS

KEEPS COMING OUT AT BOTTOM OF METER

MAY NEED TO CHECK TO SEE IF WE HAVE A LEAK

37.655380

83.812450

METER LOCATION:

624087

IN: 05/03/08

\*\*\*\*\*

ACCOUNT:110-03900-00

CITY: CRYSTAL KY

NAME :FAITH BAPTIST CHURCH

OWNER : OWNER

S/ADDR :11766 HWY 52 W

O/ADDR :

PHONE :606 464 - 2772

OWNER PHONE: -

ISSUED: 03/05/19 BY: DEB

COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 2 02/14 \*

MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID

1: SEN 68515932 13437316 8681 A \*

2: \*

3: \*

4: \*

\*\*\*\*\*

HISTORY: DATE CURRENT PREVIOUS USAGE PRIOR W/O DATE TYPE

02/14/19 8681 8679 2 A

01/14/19 8679 8676 3 A 21517 02/07/18 CHECK

12/12/18 8676 8675 1 A 12002 05/06/13 CHECK

11/14/18 8675 8675 0 A 2698 04/30/08 CHECK

\*\*\*\*\*CHECK

\_\_\_ PRESSURE \_\_\_ SIZE OF LEAK \_\_\_ GPM LOST \_\_\_ CUSTOMER SIDE

\_\_\_

\_\_\_

\_\_\_ DISTRICT SIDE

\_\_\_

\_\_\_ REGULATOR

\_\_\_

\_\_\_

\_\_\_

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: Not leaking

Date Completed: 3-5-19 By: F/E / UT Time: \_\_\_\_\_

Date Completed: 3-6-19 By: J/E Time: \_\_\_\_\_

CHECKLIST/TYPE: CHECK

WORK ORDER NO : 23408

SCHEDULED DATE: 03/07/19 SCHEDULED TIME: PM:

INSTRUCTIONS: LEAKING AT THE METER WHEN METER IS TURNED OFF  
CAN WE CHECK IT

37.662310  
83.948410

METER LOCATION:

IN: 02/12/07

\*\*\*\*\*

ACCOUNT:102-26050-00 CITY: IRVINE KY  
NAME :CITIZENS GUARANTY BANK OWNER : OWNER  
S/ADDR :692 LITTLE DOE CREEK O/ADDR :  
PHONE : -  
OWNER PHONE: -

ISSUED: 03/07/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE:	MAKE	SERIAL	REMOTE	MXUID	CURRENT	MAKE	SERIAL	REMOTE	MXUID
5/8 in.					0 02/13	*			
1:	SEN	60885789		12897362	51962 A	*			
2:						*			
3:						*			
4:						*			

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	02/13/19	51962	51962	0 A			
	01/11/19	51962	51962	0 A	22195	06/14/18	CHECK
	12/11/18	51962	51959	3 A	4506	12/15/08	CHECK
	11/13/18	51959	51958	1 A			

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No	Part Description	Quantity
-------------------	------------------	----------

Comments: REPLACED GASKET

Date Completed: 3-11-19 By: WM Time: \_\_\_\_\_

08:20:29  
[Signature]

CHECKLIST/TYPE: CHECK  
SCHEDULED DATE: 03/11/19 SCHEDULED TIME: PM:  
INSTRUCTIONS: SAYS WATER IS LEAKING UNDEATH THE METER  
CAN WE CHECK HE HAS HAD IT TURNED OFF FOR A MONTH

WORK ORDER NO : 23413

37.655260  
83.987610

METER LOCATION:

IN: 12/21/07

\*\*\*\*\*

ACCOUNT:108-01900-00 CITY: IRVINE KY  
NAME :EARL D FLYNN OWNER : OWNER  
S/ADDR :2385 MCKEE RD O/ADDR :  
PHONE :606 723 - 3278  
OWNER PHONE: -

ISSUED: 03/11/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 129 02/13 \*  
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID  
1: SEN 68489175 13433447 28627 A \*  
2: \*  
3: \*  
4: \*

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	02/13/19	28627	28498	129 A			
	01/11/19	28498	28406	92 A	3164	05/07/08	CHECK
	12/12/18	28406	28290	116 A	1863	12/18/07	CHECK
	11/13/18	28290	28043	247 A	1821	12/17/07	READ

\*\*\*\*\*CHECK

\_\_\_ PRESSURE                      \_\_\_ SIZE OF LEAK                      \_\_\_ GPM LOST                      \_\_\_ CUSTOMER SIDE

\_\_\_

\_\_\_

\_\_\_ DISTRICT SIDE

\_\_\_

\_\_\_ REGULATOR

\_\_\_

\_\_\_

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No                      Part Description                      Quantity

Comments: REPLACED METER BOTTOM

Date Completed: 3-11-19 By: WM/BD Time: \_\_\_\_\_



WORK ORDERS BY TYPE

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23434
SCHEDULED DATE: 03/13/19 SCHEDULED TIME: PM:
INSTRUCTIONS: NEED TO TURN OFF AT METER HAS A LEAK

37.771580
83.984580

METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-07000-00 CITY: IRVINE KY
NAME :TRANSYLVANIA PRESBYTERY OWNER : OWNER
S/ADDR :900 CAMP BURNAMWOOD RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 03/13/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 2 in. TY: G USE: 4540 02/25 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: 10707000 4227500 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Contains historical meter data from 02/25/19 to 11/14/18.

\*\*\*\*\*CHECK

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. Contains blank rows for meter data.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: TURNED OFF

Date Completed: 3-14-19 By: WM/BD Time:

CHECKLIST/TYPE: CHECK WORK ORDER NO : 23477  
 SCHEDULED DATE: 03/22/19 SCHEDULED TIME: PM:  
 INSTRUCTIONS: HAD A LEAK METER AND TURNED OFF TILL HE GETS  
 FIXED  
 OFFICE USE ONLY

37.792260  
 84.042100



METER LOCATION:

IN:

\*\*\*\*\*

ACCOUNT:107-35400-01 CITY: IRVINE KY  
 NAME :PAUL WHITLEY OWNER :  
 S/ADDR :365 NEW FOX RD O/ADDR :  
 PHONE :606 723 - 5714  
 OWNER PHONE: -

ISSUED: 03/22/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in.	TY: G	USE: 0	03/13	*					
MAKE SERIAL	REMOTE	MXUID	CURRENT	*	MAKE	SERIAL	REMOTE	MXUID	
1: SEN 60773898		12897000	80253 A	*					
2:				*					
3:				*					
4:				*					

\*\*\*\*\*

HISTORY:	DATE	CURRENT	PREVIOUS	USAGE	PRIOR W/O	DATE	TYPE
	02/15/19	80253	77159	3094	A		
	01/15/19	77159	76509	650	A		
	12/12/18	76509	75926	583	A		
	11/14/18	75926	75811	115	A		

\*\*\*\*\*CHECK

PRESSURE	SIZE OF LEAK	GPM LOST	CUSTOMER SIDE
---	---	---	---
---	---	---	---
---	---	---	DISTRICT SIDE
---	---	---	---
---	---	---	---
---	---	---	REGULATOR
---	---	---	---
---	---	---	---

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No      Part Description      Quantity

Comments: Turned off to fix leak

Date Completed: 3/22/19 By: DWB Time: 12:45pm



CHECKLIST/TYPE: LEAK
SCHEDULED DATE: 03/26/19 SCHEDULED TIME: PM:
INSTRUCTIONS: FIXED A LEAK IN HIS FRONT YARD

WORK ORDER NO : 23503

37.760770
84.033380

METER LOCATION:

IN: 04/15/08

\*\*\*\*\*

ACCOUNT:106-17200-01 CITY: IRVINE KY
NAME :RANDY KING OWNER : OWNER
S/ADDR :5200 SANDHILL RD O/ADDR :
PHONE :606 723 - 0907
OWNER PHONE: -

ISSUED: 03/26/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

Table with columns: SIZE, MAKE, SERIAL, REMOTE, MXUID, CURRENT, USAGE, MAKE, SERIAL, REMOTE, MXUID. Row 1: 5/8 in. TY: G USE: 99 03/11 \* SEN 68516763 13433719 70009 A \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows: 02/12/19 69910 69809 101 A 1066 07/16/07 CHECK; 01/10/19 69809 69619 190 A 7763 09/23/10 CHECK; 12/11/18 69619 69363 256 A 2231 03/05/08 CHECK; 11/12/18 69363 68673 690 A 1069 07/16/07 CHECK

\*\*\*\*\*LEAK\*\*\*\*\*

Table with columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE, DISTRICT SIDE, REGULATOR. All fields are blank.

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: fix leak on 7" main

Date Completed: 3-26-19 By: VT/WM/BD Time:

CHECKLIST/TYPE: LEAK
SCHEDULED DATE: 04/01/19 SCHEDULED TIME: PM:
INSTRUCTIONS: LEAK ON SERVICE LINE

WORK ORDER NO : 23532

Sub

37.645950
84.059840

METER LOCATION:

IN: 05/12/08

\*\*\*\*\*

ACCOUNT:103-32990-00 CITY: IRVINE KY
NAME :LLOYD WOOLERY OWNER : OWNER
S/ADDR :3525 CROOKED CREEK RD O/ADDR :
PHONE : -
OWNER PHONE: -

ISSUED: 04/01/19 BY: DEB COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 175 03/12 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 68516091 13437331 42403 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with 9 columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 03/12/19 to 12/11/18 and types like CHECK, LEAK.

\*\*\*\*\*

Table with 4 columns: PRESSURE, SIZE OF LEAK, GPM LOST, CUSTOMER SIDE. Includes rows for DISTRICT SIDE and REGULATOR.

\*\*\*\*\*

Work Completed:

New Set : \_\_\_\_\_ Serial No: \_\_\_\_\_ Remote: \_\_\_\_\_ Read: \_\_\_\_\_

Material- Item No Part Description Quantity

Comments: FIXED LEAK ON SERVICE LINE
USED 3/4" Coupling

Date Completed: 4-1-19 By: WM/UT Time: \_\_\_\_\_

WORK ORDERS BY TYPE

CHECKLIST/TYPE: LEAK
SCHEDULED DATE: 04/02/19 SCHEDULED TIME: PM:
INSTRUCTIONS: NEEDS SETTER REPLACED ITS LEAKING

WORK ORDER NO : 23537

37.693640
84.014210

METER LOCATION:

IN: 02/01/07

\*\*\*\*\*

ACCOUNT:101-48200-04 CITY: IRVINE KY
NAME :PHILLIP RIDDELL OWNER :
S/ADDR :1090 STACY LANE RD O/ADDR :
PHONE :606 723 - 6644
OWNER PHONE: -

ISSUED: 04/02/19 BY: SHANA COMPLETED:

\*\*\*\*\*OLD METER INFORMATION\*\*\*\*\* NEW METER INFORMATION\*\*\*\*\*

SIZE: 5/8 in. TY: G USE: 390 03/11 \*
MAKE SERIAL REMOTE MXUID CURRENT \* MAKE SERIAL REMOTE MXUID
1: SEN 60773401 12975497 84497 A \*
2: \*
3: \*
4: \*

\*\*\*\*\*

Table with columns: HISTORY, DATE, CURRENT, PREVIOUS, USAGE, PRIOR W/O, DATE, TYPE. Rows include dates from 03/11/19 to 12/10/18 and usage types like CHECK, LEAK.

\*\*\*\*\*LEAK

PRESSURE SIZE OF LEAK GPM LOST CUSTOMER SIDE
DISTRICT SIDE
REGULATOR

\*\*\*\*\*

Work Completed:

New Set : Serial No: Remote: Read:

Material- Item No Part Description Quantity

Comments: Replaced setter & Box

Date Completed: 4-2-19 BY: [Signature] Time:

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 13

Responding Witness: Audrea Miller

- Q-13. Does the utility have a policy or operating procedure in place that addresses the process and the length of time it should take for the utility to fix a known or reported leaking water line? If yes, provide a copy of the policy or operating procedure.**
- A-13. Estill County Water District No. 1 does not have a written policy or procedure on this subject.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 14

Responding Witness: Audrea Miller

- Q-14. Provide a general asset ledger listing identifying all new equipment purchased by the utility from January 1, 2018, to the date of the issuance of this Order used in water loss reduction efforts (e.g., listening devices, flow meters, metal detectors, hand tools, etc.).**
- A-14. No equipment has been purchased since January 1, 2018. Estill County Water District No. 1 has previously purchased leak detection equipment. This equipment is currently in use and is in good working order.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 15

Responding Witness: Audrea Miller

**Q-15. Provide the type of training and the total amount of time the utility's personnel have received for leak detection and repairs since January 1, 2015, to the date of the issuance of this Order. List the personnel and dates of training.**

A-15. See the table below.

<b>Date</b>	<b>Instructor</b>	<b>Attending Employees</b>
07/23/2015	Kentucky Rural Water Association	Dwight Richardson William Murphy Vernon Tipton
07/24/2015	Kentucky Rural Water Association	Dwight Richardson William Murphy Vernon Tipton
12/07/2015	Kentucky Rural Water Association	Dwight Richardson William Murphy Vernon Tipton
04/12/2018	Kentucky Rural Water Association	Dwight Richardson William Murphy Vernon Tipton
08/09/2018	Kentucky Rural Water Association	Dwight Richardson William Murphy Vernon Tipton

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 16

Responding Witness: Audrea Miller

**Q-16. Does the utility have a policy to identify errors that result in missed customer billings or under billings of customer accounts? If so, provide a copy of the policy.**

A-16. Estill County Water District No. 1 does not have a written policy regarding missed customer billings or underbillings. Its existing billing system will detect errors and irregular usage as meter readings are entered. When an error or irregular usage is identified, a work order is issued to investigate the occurrence.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 17

Responding Witness: Audrea Miller

- Q-17. If the utility produces and treats water for its distribution system, provide the date that the utility's water treatment plant meter was last tested and state how frequently the utility's water treatment plant meter is tested. Provide a copy of the most recent meter test results.**
- A-17. Not applicable. Estill County Water District No. 1 does not produce or treat any water, but purchases its total water requirements.



**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 18

Responding Witness: Audrea Miller

**Q-18. Provide the dates on which the utility's master meters were last tested and the results of the tests.**

A-18. Estill County Water District No. 1's master meters were last tested on May 17, 2017. See Attachment to this Response.

# Sensus

## SINGLE REGISTER METER PERFORMANCE REPORT

<b>SERIAL#:</b> Dry Branch	<b>SIZE:</b> 4	<b>CUSTOMER:</b> Estill County
<b>DATE:</b> 6/13/2017	<b>TYPE:</b> Sensus	<b>METER LOCATION:</b> Dry Branch
<b>READING (BEFORE):</b> 0		<b>READING (BACK IN SERV):</b> 0
<b>METER REGISTRATION:</b> Gallons		<b>TESTER RATE UNITS:</b> GPM <b>TESTER REGISTRATION:</b> Gallons

METER	FLOW RATE (GPM)	METER UNDER TEST				TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
		Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)			
<b>TOTAL</b>	<b>30</b>	<b>39320052</b>	<b>39319942</b>	<b>110</b>		<b>110</b>	<b>100.8</b>	<b>100.8%</b>

METER	FLOW RATE (GPM)	METER UNDER TEST				TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
		Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)			
<b>TOTAL</b>	<b>180</b>	<b>39321158</b>	<b>39320052</b>	<b>1106</b>		<b>1053</b>	<b>100.1</b>	<b>105.1%</b>

METER	FLOW RATE (GPM)	METER UNDER TEST				TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
		Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)			
<b>TOTAL</b>	<b>156</b>	<b>39322279</b>	<b>39321158</b>	<b>1121</b>		<b>1050</b>	<b>100.2</b>	<b>107.0%</b>

TESTING PERFORMED BY: *Rodney Adkins*

DATE: 5/19/2017

# Sensus

## SINGLE REGISTER METER PERFORMANCE REPORT

<b>SERIAL#:</b> hersey	<b>SIZE:</b> 6"	<b>CUSTOMER:</b> Estill County
<b>DATE:</b> 6/13/2017	<b>TYPE:</b> Hersey	<b>METER LOCATION:</b> Irvine bridge
<b>READING (BEFORE):</b> 320224900		<b>READING (BACK IN SERV):</b> 0
<b>METER REGISTRATION:</b> Gallons		<b>TESTER RATE UNITS:</b> GPM <b>TESTER REGISTRATION:</b> Gallons

METER	FLOW RATE (GPM)	METER UNDER TEST				TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
		Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)			
<b>TOTAL</b>	<b>30</b>	<b>320224900</b>	<b>320224300</b>	<b>600</b>		<b>1001</b>	<b>100.8</b>	<b>60.4%</b>

METER	FLOW RATE (GPM)	METER UNDER TEST				TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
		Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)			
<b>TOTAL</b>	<b>350</b>	<b>320225920</b>	<b>320224900</b>	<b>1020</b>		<b>1003</b>	<b>99</b>	<b>100.7%</b>

METER	FLOW RATE (GPM)	METER UNDER TEST				TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
		Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)			
<b>TOTAL</b>	<b>400</b>	<b>320226970</b>	<b>320225920</b>	<b>1050</b>		<b>1030</b>	<b>99</b>	<b>100.9%</b>

TESTING PERFORMED BY: *Rodney Adkins*

DATE: 5/19/2017

# Sensus

## SINGLE REGISTER METER PERFORMANCE REPORT

<b>SERIAL#:</b> Chestnut Sta	<b>SIZE:</b> 2"	<b>CUSTOMER:</b> Estill County
<b>DATE:</b> 6/13/2017	<b>TYPE:</b> Sensus	<b>METER LOCATION:</b> Chestnut Stand
<b>READING (BEFORE):</b> 0		<b>READING (BACK IN SERV):</b> 0
<b>METER REGISTRATION:</b> Gallons		<b>TESTER RATE UNITS:</b> GPM <b>TESTER REGISTRATION:</b> Gallons

METER	FLOW RATE (GPM)	METER UNDER TEST				TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
		Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)			
TOTAL	5	4220679	4220575	104		101	101	104.0%

METER	FLOW RATE (GPM)	METER UNDER TEST				TESTER VOLUME (Gallons)	TESTER % from TAG	METER ACCURACY
		Stop Reading	Start Reading	Meter Volume (Gallons)	CONVERTED Volume to (Gallons)			
TOTAL	33	4220811	4220679	132		126.4	100.5	105.0%

TESTING PERFORMED BY: *Rodney Adkins*

DATE: 5/19/2017

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 19

Responding Witness: Audrea Miller

**Q-19. Provide the utility's procedure and schedule for testing its master meters and customer meters.**

A-19. Estill County Water District No. 1 currently has no written procedures regarding the testing of its customer or master meters.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 20

Responding Witness: Audrea Miller

**Q-20. State the number of meters that have been replaced by the utility from January 1, 2018, to the date of the issuance of this Order.**

A-20. Between January 1, 2018 and March 12, 2019, Estill County Water District No. 1 replaced 148 meters.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 21

Responding Witness: Audrea Miller

**Q-21. Provide the type of metering equipment, including brands and model numbers, the utility uses.**

A-21. Estill County Water District No. 1 uses the following models of Sensus metering equipment:

Sensus SRII  
Sensus IPERL  
Sensus MXU  
Sensus VXU (3600)

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 22

Responding Witness: Audrea Miller

**Q-22. State whether the utility utilizes supervisory control and data acquisition (SCADA) technology within its system.**

A-22. Estill County Water District No. 1 uses SCADA technology within its system.



**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 23

Responding Witness: Audrea Miller

**Q-23. State whether the utility utilizes telemetry within its system.**

A-23. Estill County Water District No. 1 uses telemetry within its system.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 24

Responding Witness: Audrea Miller

**Q-24. State whether all meters within the utility's distribution area are read monthly. If all meters are not read monthly state the reasons why not.**

A-24. Estill County Water District No. 1 reads all meters within its distribution system monthly from the 10th to 15th days of the month.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 25

Responding Witness: Audrea Miller

**Q-25. What training is provided to the utility's meter readers?**

A-25. Estill County Water District No. 1 meter readers receive basic training on reading meters when first assigned meter reading duties. Estill County Water District purchased automated meter reading meters in 2007. At that time, the equipment manufacturer trained water district employees on the equipment's use and operation. As additional employees were hired, existing water district employees trained the new employees on the equipment's use and operation.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 26

Responding Witness: Audrea Miller

- Q-26. Does the utility utilize master meter zones in leak detection? If yes, 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-26. Estill County Water District No. 1 does not currently use master meter zones in leak detection. It intends to implement the use of zones as soon as resources permit.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 27

Responding Witness: Audrea Miller

**Q-27. State whether the utility uses a system-wide hydraulic model to evaluate the pressure zones and flow in the utility's distribution system.**

A-27. Estill County Water District No. 1 does not currently have a hydraulic model of its water distribution system, but intends to have such model developed when funding permits.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 28

Responding Witness: Audrea Miller

- Q-28. Does the utility manager regularly report the water loss reduction efforts to the water utility's board of commissioners? Provide copies of any written reports, memorandums, letters, emails, or minutes from January 1, 2018, to the date of the issuance of this Order that details the efforts of the utility manager in reducing water loss as reported to the water utility's board of commissioners.**
- A-28. Yes. Estill County Water District No. 1's manager regularly reports on water loss reduction efforts to Estill County Water District No. 1's Board of Commissioners at its monthly meeting. See Attachment to this Response.

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS (THE COMMISSION) MET IN REGULAR SESSION THURSDAY JANUARY 25, 2018 AT 3:00 P.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT GREG WRIGHT, CHAIRMAN, JERRY ARNOLD, SECRETARY, WILLIAM BEARD, TREASURER, AUDREA MILLER, OFFICE MANAGER AND DWIGHT RICHARDSON, OPERATIONAL MANAGER

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF BEARD AND SECONDED BY WRIGHT and all members of the Board voting in the affirmative, that the agenda for, January 25, 2018 regular Board of Commissioners Meeting be approved.

The Minutes from the December 28, 2017 regular board meeting were presented to the Board with no corrections being found necessary. ON MOTION OF BEARD AND SECONDED BY WRIGHT and all members of the Board voting in the affirmative, that the minutes be approved as presented.

Dwight Richardson, Operational Manager, discussed with the Board, the damage that was done to Phillip Newton's property during the Phase 10 water main extension project at Wisemantown. In 2014 Clay Pipeline installed a water main in front of Phillip Newton's property crossing Mr. Newton's drain lines from his guttering & basement. In the process the drain lines were crushed. After Mr. Newton noticed he was having water problems in his basement and earth settling at the corners of his house he contacted the Estill County Water District. The District checked & confirmed that the drain lines were collapsed in the water main ditch line due to the backfilling process. On May 31, 2017 the Estill County Water District repaired the drain lines remedying the water problem but there was already damage to Mr. Newton's house. The Board instructed Mr. Richardson to contact Steve Dell with Bell Engineering and discuss how to proceed with this matter.

Gerald Wuetcher, attorney for the District was present to discuss several ongoing matters with the Board, all of which are as follows:

Counsel briefed the Board on the PSC's Order of 1/11/2018 in Case No. 2017-467. The PSC required the District and each Commissioner to respond its Order no later than January 31, 2018. The Board authorized counsel to submit a response to the allegations set forth in the Order on behalf of the District and each commissioner, a motion to dispense with the hearing, and a motion to dismiss the proceeding with respect to the commissioners.

The Commissioners directed that the scope of Stoll Keenon Ogden PLLC's representation of the District as set forth in the 9/13/2017 letter of engagement be extended to include representation of the District's commissioner in their individual capacity for allegedly aiding and abetting the District's violations of KRS 278.300.

The Commissioners authorized counsel to contact the Estill County Attorney and discuss an agreement between Estill County Fiscal Court and Estill County Water District for the collection of a service fee on water services that Estill County Fiscal Court has established to support 911 communication services. Counsel advise the Board that Estill County Fiscal Court lacked the legal authority to order Estill County Water District to collect the fee, but the Estill County Water District could enter an agreement to provide collection services to Fiscal Court. Counsel stated that any agreement should set forth certain protections for Estill County Water District. The Commissioners stated that Estill County Water District should not oppose the ordinance directing it to collect the fee but should cooperate with Fiscal Court to the fullest extent possible.

ON MOTION OF BEARD AND SECONDED BY ARNOLD and all members of the Board voting in the affirmative to adopt resolution 2018-1 approving and authorizing an assistance agreement with the Kentucky Rural Water Finance Corporation for the purpose of refunding certain obligations of the District.

RESOLUTION 2018-1

**RESOLUTION OF THE ESTILL COUNTY WATER DISTRICT NO. 1 APPROVING AND AUTHORIZING AN ASSISTANCE AGREEMENT WITH THE KENTUCKY RURAL WATER FINANCE CORPORATION FOR THE PURPOSE OF REFUNDING CERTAIN OBLIGATIONS OF THE DISTRICT.**

**WHEREAS**, the Board of Commissioners of the Estill County Water District No. 1 (the "District") has determined that it is in the public interest to currently refund the following outstanding debt (collectively the "Prior Bonds"), in order for the District to obtain substantial interest cost savings:

- a. Estill County Water District No. 1 Waterworks Revenue Bonds of 1991A, in the original principal amount of \$521,000, dated September 3, 1992 and bearing interest at the rate of 5.00% per annum (the "1991A Bonds");
- b. Estill County Water District No. 1 Waterworks Revenue Bonds of 1991B, in the original principal amount of \$101,000, dated September 3, 1992 and bearing interest at the rate of 2 5.00% per annum (the "1991B Bonds");
- c. Estill County Water District No. 1 Waterworks Revenue Bonds, Series 1996, in the original principal amount of \$505,000, dated January 30, 1997 and bearing interest at the rate of 4.50% per annum (the "1996 Bonds");
- d. Estill County Water District No. 1 Waterworks and Sewer Revenue Bonds, Series 2000, in the original principal amount of \$975,000, dated March 10, 2000 and bearing interest at the rate of 4.50% per annum (the "2000 Bonds");
- e. Estill County Water District No. 1 Water and Sewer Revenue Bonds, Series 2006, in the original principal amount of \$945,000, dated December 22, 2006 and bearing interest at the rate of 4.125% per annum (the "2006 Bonds");
- f. Citizens Guaranty Bank loan #88196, in the original principal amount of \$200,305, dated January 31, 2013 and bearing interest at the rate of 3.85% per annum (the "2013 CGB Loan");
- g. Citizens Guaranty Bank loan #03387, in the original principal amount of \$100,305, dated January 29, 2015 and bearing interest at the rate of 3.85% per annum (the "2015 CGB Loan"); and
- h. Citizens Guaranty Bank loan #24597, in the original principal amount of \$110,330, dated January 24, 2017 and bearing interest at the rate of 4.10% per annum (the "2017 CGB Loan")(hereinafter, the 1991A Bonds, the 1991B Bonds, the 1996 Bonds, the 2000 Bonds, the 2006 Bonds, the 2013 CGB Loan, the 2015 CGB Loan and the 2017 CGB Loan shall be collectively referred to as the "Prior Bonds").

**WHEREAS**, the District desires the Kentucky Rural Water Finance Corporation (the "Corporation") to act as its agency and instrumentality for the purpose of providing monies to currently refund the outstanding Prior Bonds and has made an application to the Corporation therefore; and



**WHEREAS**, in order to obtain such monies, the District is required to enter into an Assistance Agreement with the Corporation;

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Commissioners of the Estill County Water District No. 1 as follows:

**1. Authorization of Assistance Agreement and the Obligations Thereunder.** For the purpose of paying the costs, not otherwise provided, of the current refunding of the Prior Bonds, the District hereby authorizes and approves the issuance of its obligations pursuant to the Assistance Agreement in the aggregate principal amount of \$\$2,745,000 (subject to adjustment of up to 10%) (which aggregate principal amount may be adjusted downward in the event that the Chairman determines it is in the District's best interest to not refund one or more of the Prior Bonds) [the "Obligations"], which amount as adjusted shall be the maximum amount of such Obligations to be outstanding at any one time under the Assistance Agreement, issued as fully registered Obligations, in said maturities and terms as more fully provided for in the Assistance Agreement. The Obligations shall bear interest at such rates and shall be payable in such amounts and at such times as specified in the Assistance Agreement, all as agreed upon by the District and the Corporation.

**2. Approval and Authorization of Execution of Assistance Agreement.** The Assistance Agreement by and between the District and the Corporation in the respective form attached to this Resolution, is hereby approved, subject to such minor changes, changes of dates, insertions or omissions as may be approved by the Chairman, such approval to be conclusively evidenced by the execution of said Assistance Agreement, in order to effectuate the purposes of this Resolution; and the Chairman, or any other officer of the District, is hereby authorized to execute and acknowledge same for and on behalf of the District; and the Secretary is authorized to attest same and to affix thereto the corporate seal of the District. The Assistance Agreement is hereby ordered to be filed in the office of the Secretary with this Resolution in the official records of the District.

**3. Disbursement of Proceeds of Obligations.** The District's officers, employees and agents are authorized to carry out the procedures specified in the Assistance Agreement for the current refunding of the Prior Bonds and for the payment from time to time of the costs and related expenses associated therewith.

**4. Revenues of the System.** The revenues of the District's water system (the "System") are determined to be sufficient to pay the principal of and interest on the Obligations, as the same become due and payable; and said revenues, pursuant to the terms of the Assistance Agreement, are hereby pledged to secure all such payments, and in addition, for such other purposes as are more fully specified in the Assistance Agreement.

**5. Chairman and Other District Officials to Take Any Other Necessary Action.** Pursuant to the Constitution and Laws of the Commonwealth of Kentucky, the Chairman, Treasurer, Secretary and all other appropriate officials of the District are hereby authorized and directed to file any and all applications necessary to obtain approval of the issuance of the

Obligations from the Kentucky Public Service Commission and to take any and all further action and to execute and deliver all other documents as may be reasonably necessary to effect the issuance and delivery of the Obligations and the Assistance Agreement.

**6. Severability Clause.** If any section, paragraph, clause or provision of this Resolution shall be ruled by any court of competent jurisdiction to be invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the remaining provisions hereof.

**7. Captions of Clauses.** The captions of this Resolution are for convenience only and are not to be construed as part of this Resolution nor as defining or limiting in any way the scope or intent of the provisions hereof.

**8. Provisions in Conflict Repealed.** All resolutions and orders, or parts thereof, in conflict with the provisions of this Resolution, are, to the extent of such conflict, hereby repealed.

**9. Effective Date of Resolution.** This Resolution shall take effect from and after its adoption and approval.

Adopted on January 25, 2018.

ESTILL COUNTY WATER DISTRICT  
NO. 1

By   
Chairman

Attest:

By   
Secretary

*[Certificate Follows]*

**CERTIFICATE**

I, the undersigned, hereby certify that I am the duly qualified and acting Secretary of the District; that the foregoing is a full, true and correct copy of a Resolution adopted by the Board of Commissioners of the District at a meeting duly held on January 25, 2018; that said official action appears as a matter of public record in the official records or Journal of the Board of Commissioners; that said meeting was held in accordance with all applicable requirements of Kentucky law, including KRS 61.810, 61.815, 61.820 and 61.823; that a quorum was present at said meeting; that said official action has not been modified, amended, revoked or repealed and is now in full force and effect.

IN TESTIMONY WHEREOF, witness my signature this January 25, 2018.

  
Secretary

RESOLUTION 2018-2

**RESOLUTION OF THE ESTILL COUNTY WATER DISTRICT NO. 1 APPROVING AND AUTHORIZING AN AMENDED ASSISTANCE AGREEMENT WITH THE KENTUCKY RURAL WATER FINANCE CORPORATION FOR THE PURPOSE OF AMENDING A LOAN TO THE DISTRICT.**

**WHEREAS**, the Board of Commissioners of the Estill County Water District No. 1 (the "District") previously obtained a loan dated July 31, 2002, in the original principal amount of \$230,000 (the "Series 2002A Loan") from the proceeds of the Kentucky Rural Water Finance Corporation Public Projects Revenue Bonds (Flexible Term Program), Series 2002A (the "Series 2002A Bonds"); and

**WHEREAS**, the Kentucky Rural Water Finance Corporation (the "Corporation") has determined that if the Corporation refunds the outstanding Series 2002A Bonds that the District can obtain debt service savings on its Series 2002A Loan; and

**WHEREAS**, the Board of Commissioners has determined that it is in the public interest to amend the outstanding Series 2002A Loan, in order for the District to obtain substantial debt service savings; and

**WHEREAS**, the District desires the Corporation to act as its agency and instrumentality for the purpose of issuing bonds to amend the outstanding Series 2002A Loan and has made an application to the Corporation therefore; and

**WHEREAS**, in order to obtain such debt service savings, the District is required to enter into an Amended Assistance Agreement with the Corporation;

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Commissioners of the Estill County Water District No. 1 as follows:

**1. Authorization of Amended Assistance Agreement and the Series 2002A Loan Thereunder.** The District hereby authorizes and approves an Amended Assistance Agreement for the purpose of achieving debt service savings on its Series 2002A Loan all as agreed upon by the District and the Corporation.

**2. Approval and Authorization of Execution of Amended Assistance Agreement.** The Amended Assistance Agreement by and between the District and the Corporation in such form as may be approved by the Chairman, is hereby approved, subject to such minor changes, changes of dates, insertions or omissions as may be approved by the Chairman, such approval to be conclusively evidenced by the execution of said Amended Assistance Agreement, in order to effectuate the purposes of this Resolution; and the Chairman, or any other officer of the District, is hereby authorized to execute and acknowledge same for and on behalf of the District; and the Secretary is authorized to attest same and to affix thereto

the corporate seal of the District. The Amended Assistance Agreement is hereby ordered to be filed in the office of the Secretary with this Resolution in the official records of the District.

**3. Disbursement of Proceeds of Series 2002A Loan.** The District's officers, employees and agents are authorized to carry out the procedures specified in the Amended Assistance Agreement for the amendment of the Series 2002A Loan and for the payment from time to time of the costs and related expenses associated therewith.

**4. Revenues of the System.** The revenues of the District's water system (the "System") are determined to be sufficient to pay the principal of and interest on the Series 2002A Loan, as the same become due and payable; and said revenues, pursuant to the terms of the Amended Assistance Agreement, are hereby pledged to secure all such payments, and in addition, for such other purposes as are more fully specified in the Amended Assistance Agreement.

**5. Chairman and Other District Officials to Take Any Other Necessary Action.** Pursuant to the Constitution and Laws of the Commonwealth of Kentucky, the Chairman, Treasurer, Secretary and all other appropriate officials of the District are hereby authorized and directed to file any and all applications necessary to obtain approval for the amendment of the Series 2002A Loan from the Kentucky Public Service Commission and to take any and all further action and to execute and deliver all other documents as may be reasonably necessary to effect the issuance and delivery of the Amended Assistance Agreement.

**6. Severability Clause.** If any section, paragraph, clause or provision of this Resolution shall be ruled by any court of competent jurisdiction to be invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the remaining provisions hereof.

**7. Captions of Clauses.** The captions of this Resolution are for convenience only and are not to be construed as part of this Resolution nor as defining or limiting in any way the scope or intent of the provisions hereof.

**8. Provisions in Conflict Repealed.** All resolutions and orders, or parts thereof, in conflict with the provisions of this Resolution, are, to the extent of such conflict, hereby repealed.

**9. Effective Date of Resolution.** This Resolution shall take effect from and after its adoption and approval.

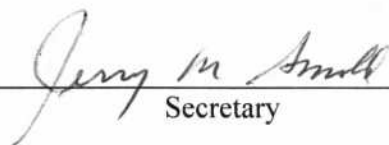
*[Signature Page Follows]*

Adopted on January 25, 2018.

ESTILL COUNTY WATER DISTRICT  
NO. 1

By   
Chairman

Attest:

By   
Secretary

**CERTIFICATE**

I, the undersigned, hereby certify that I am the duly qualified and acting Secretary of the District; that the foregoing is a full, true and correct copy of a Resolution adopted by the Board of Commissioners of the District at a meeting duly held on January 25, 2018; that said official action appears as a matter of public record in the official records or Journal of the Board of Commissioners; that said meeting was held in accordance with all applicable requirements of Kentucky law, including KRS 61.810, 61.815, 61.820 and 61.823; that a quorum was present at said meeting; that said official action has not been modified, amended, revoked or repealed and is now in full force and effect.

IN TESTIMONY WHEREOF, witness my signature this January 25, 2018.

  
Secretary

ON MOTION OF BEARD AND SECONDED BY ARNOLD and all members of the Board voting in the affirmative to adopt resolution 2018-2 approving and authorizing an amended assistance agreement with the Kentucky Rural Water Finance Corporation for the purpose of amending a loan to the District.

ON MOTION OF BEARD AND SECONDED BY ARNOLD and all members of the Board voting in the affirmative have Citizen's Guaranty Bank set the loan for the utility truck, loan#100983483677, up on two-year terms.

Dwight Richardson, Operational Manager, presented the water loss report to the board, unaccounted water loss for December was 39%.

The Office Manager presented the December financial report to the board. ON MOTION OF ARNOLD AND SECONDED BY BEARD and all members of the Board voting in the affirmative, that the December financials be approved as presented.

Commissioner Arnold stated that he had been approached by Brad Goolman requesting a job at the District. The Board appreciated the request but told Commissioner Arnold to advise Mr. Goolman that the District was not hiring at this time.

ON MOTION OF BEARD AND SECONDED BY ARNOLD and all members of the Board voting in the affirmative, that the meeting be adjourned.

Signed

Jerry M. Arnold  
Secretary

Attested: Angela [Signature]

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS (THE COMMISSION) MET IN REGULAR SESSION THURSDAY MARCH 29, 2018 AT 3:00 P.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT GREG WRIGHT, CHAIRMAN, JERRY ARNOLD, SECRETARY, WILLIAM BEARD, TREASURER, AUDREA MILLER, OFFICE MANAGER AND DWIGHT RICHARDSON, OPERATIONAL MANAGER

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF BEARD AND SECONDED BY WRIGHT and all members of the Board voting in the affirmative, that the agenda for, March 29, 2018 regular Board of Commissioners Meeting be approved.

The Minutes from the February 22, 2018 regular board meeting were presented to the Board with no corrections being found necessary. ON MOTION OF BEARD AND SECONDED BY ARNOLD and all members of the Board voting in the affirmative, that the minutes be approved as presented.

The Minutes from the March 8, 2018 special board meeting were presented to the Board with no corrections being found necessary. ON MOTION OF ARNOLD AND SECONDED BY BEARD and all members of the Board voting in the affirmative, that the minutes be approved as presented.

James Morgan, 502 Wisemantown Road, was present to discuss his ongoing issue with drain water in his yard and driveway. The Operational Manager suggested that the District contact Kenny Cole at the Estill County Health Department to see what needs to be done as the District has exhausted all options.

Commissioner Wright addressed the board on behalf of Deward Willis, 4030 Crooked Creek Road, Mr. Willis had a leak in December 2017 and January 2018 resulting in two water bills totaling \$1,864.26. The Office Manager advised the Board that Mr. Willis had been given an adjustment of \$991.93 as per the Districts Leak Adjustments Policy. The balance of Mr. Willis' account was also set up on a payment plan. Commissioner Beard stated that he felt the District had done all it could legally do.

The Water Loss Report was presented to the Board, unaccounted for water in February was 32%.

The Office Manager, presented the board with the February financials. ON MOTION OF BEARD AND SECONDED BY ARNOLD and all members of the Board voting in the affirmative, that the financials be approved.

ON MOTION OF ARNOLD AND SECONDED BY BEARD and all members of the Board voting in the affirmative, that the meeting be adjourned.

Signed Jerry M Arnold  
Secretary

Attested: Greg Wright

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*



THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS (THE COMMISSION) MET IN SPECIAL SESSION MONDAY MARCH 8, 2018 AT 10:00 AM. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT: GREG WRIGHT-CHAIRMAN, JERRY ARNOLD-SECRETARY, WILLIAM BEARD-TREASURER, AUDREA MILLER-OFFICE MANAGER & DWIGHT RICHARDSON, OPERATION MANAGER

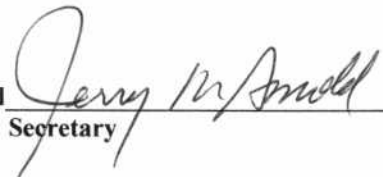
From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF BEARD AND SECONDED BY ARNOLD and all members of the Board voting in the affirmative, that the agenda for the March 8, 2018, special Board of Commissioners Meeting be approved.

ON MOTION OF BEARD AND SECONDED BY ARNOLD and all members of the Board voting in the affirmative, to adopt resolution 2018-3 to authorize an application to the public service commission for rehearing of order of March 6, 2018 in case # 2018-00058.

ON MOTION OF BEARD AND SECOND BY ARNOLD and all members of the Board voting in the affirmative, that the meeting be adjourned.

Signed

  
Secretary

Attested:



*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF  
ESTILL COUNTY WATER DISTRICT NO. 1 AUTHORIZING  
AN APPLICATION TO PUBLIC SERVICE COMMISSION FOR  
REHEARING OF ORDER OF MARCH 6, 2018 IN  
CASE NO. 2018-00058**

**RESOLUTION NO. 2018- 3**

**WHEREAS**, on February 5, 2018 Estill County Water District No. 1 applied to the Kentucky Public Service Commission for authorization to enter into a loan agreement with Kentucky Rural Water Finance Corporation to borrow \$2,745,000 to refinance several existing loans;


**WHEREAS**, on March 6, 2018, the Kentucky Public Service Commission entered an Order in Case No. 2018-00058 in which it denied Estill County Water District No. 1's application for authorization to enter the proposed loan agreement;

**WHEREAS**, Estill County Water District No. 1's legal counsel (Stoll Keenon Ogden PLLC) has advised the Board of Commissioners that the Order of March 6, 2018 contains factual and legal errors and has recommended that an application for rehearing of the Order be made to the Kentucky Public Service Commission;


**NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 AS FOLLOWS:**

**Section 1.** Estill County Water District No. 1's legal counsel (Stoll Keenon Ogden PLLC) is authorized to submit an application for rehearing of the Kentucky Public Service Commission's Order of March 6, 2018 in Case No. 2018-00058 and to take all necessary actions to advance such application.

**ADOPTED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 at a meeting held on March 8, 2018 signed by Chairman, and attested by the Secretary.**

  
\_\_\_\_\_  
Chairman

**ATTEST:**

  
\_\_\_\_\_  
Secretary

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN REGULAR SESSION THURSDAY APRIL 26, 2018 AT 3:00 P.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING PERSONS PRESENT: GREG WRIGHT, CHAIRMAN; JERRY ARNOLD, SECRETARY; BLAIN CLICK, TREASURER; AUDREA MILLER, OFFICE MANAGER; DWIGHT RICHARDSON, OPERATIONAL MANAGER; KEVIN T. WILLIAMS, ESTILL COUNTY JUDGE/EXECUTIVE; AND GERALD WUETCHER, LEGAL COUNSEL.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF ARNOLD AND SECONDED BY CLICK, all members of the Board voted to approve the agenda for the April 26, 2018 regular Board of Commissioners Meeting.

The Minutes of the March 29, 2018 regular board meeting were presented to the Board. ON MOTION OF CLICK AND SECONDED BY ARNOLD, all members of the Board voted to approve the minutes as presented.

The Board was advised of the ongoing situation with James Morgan, 502 Wisemantown Road. The Operational Manager stated that he had spoken twice with Kenny Cole of the Estill County Health Department and Mr. Cole had agreed to investigate. As of the meeting date, Mr. Richardson had not heard from Mr. Cole.

ON MOTION OF ARNOLD AND SECONDED BY CLICK, all members of the Board voted to withdraw the District's application to the Kentucky Public Service Commission for authorization to enter a loan agreement with Kentucky Rural Water Finance Corporation for the purpose of refinancing certain existing loans. The Board's decision to withdraw the application came after the Kentucky Rural Water Finance Corporation notified the District that increasing interest rates no longer made the proposed refinancing advantageous and that the District no longer met KRWFC's lending guidelines.

Chairman Greg Wright advised the Board that, effective immediately, he was resigning his position as Chairman of the Board to allow for an orderly transition of new members to the Board of Commissioners. Commissioner Wright will remain a member of the Board until his resignation becomes effective on May 16, 2018.

ON MOTION OF ARNOLD AND SECONDED BY WRIGHT, Blain Click was unanimously elected as Chairman of the Board.

The Operations Manager presented the Water Loss Report to the Board and reported that unaccounted for water in March was 33 percent. ON MOTION OF CLICK AND SECONDED BY ARNOLD, all members of the Board voted to accept the Water Loss Report.

The Office Manager presented the Board with the March financial statements. ON MOTION OF ARNOLD AND SECONDED BY CLICK, all members of the Board voted to approve the financial statements.

ON MOTION OF CLICK AND SECONDED BY ARNOLD, all members of the Board voted to adjourn the meeting.

Attested:

Blain Click

Signed

Secretary

Jack Steubrey

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS (THE COMMISSION) MET IN SPECIAL SESSION MONDAY MAY 15, 2018 AT 9:00 AM. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT: BLAIN CLICK-CHAIRMAN, JACK STICKNEY-SECRETARY, AUDREA MILLER-OFFICE MANAGER & DWIGHT RICHARDSON, OPERATION MANAGER, GREG WRIGHT-TREASURER WAS ABSENT

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY CLICK and all members of the Board voting in the affirmative, that the agenda for the May 15, 2018, special Board of Commissioners Meeting be approved.

ON MOTION OF STICKNEY AND SECOND BY CLICK and all members of the Board voting in the affirmative, for the Estill County Water District to purchase a new 6" check valve, for the Irvine Bridge master meter, and to ask Irvine Municipal Utilities to install the check valve. The cost of the check valve is not to exceed \$3000.00 and this is to be done as soon as possible.

ON MOTION OF STICKNEY AND SECOND BY CLICK and all members of the Board voting in the affirmative, that the meeting be adjourned.

Signed

Secretary

*Jack Stickney*

Attested:

*Blain Click*

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN REGULAR SESSION THURSDAY MAY 31, 2018 AT 3:00 P.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING PERSONS PRESENT: BLAIN CLICK, CHAIRMAN; JACK STICKNEY, SECRETARY; ROBERT "SKIP" JOHNSON, TREASURER; AUDREA MILLER, OFFICE MANAGER; DWIGHT RICHARDSON, OPERATIONAL MANAGER; KEVIN T. WILLIAMS, ESTILL COUNTY JUDGE/EXECUTIVE; AND GERALD WUETCHER, LEGAL COUNSEL.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the agenda for the May 31, 2018 regular Board of Commissioners Meeting.

The Minutes of the April 26, 2018 regular board meeting were presented to the Board. ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the minutes as presented.

The Minutes of the May 15, 2018 special board meeting were presented to the Board. ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the minutes as presented.

The complaint of James Morgan of 502 Wisemantown Road was discussed but Mr. Morgan was not present. The Operational Manager advised the Board that he had met with Kenny Cole of the Estill County Health Department at Mr. Morgan's residence to investigate the ongoing waste water issue. Mr. Cole suggested that a temporary solution would be to install another bleeder line above the Districts water main. The Board discussed this option and decided to forgo any action as conventional sewer services are about to be made available to Mr. Morgan.

James Witt of 315 N Sulpher Wells expressed his concern over his March water bill of 4,300 gallons. Mr. Witt stated that he had no leaks and that he could not have used the billed amount of water. The Office Manager explained to Mr. Witt that his March usage was only 1,000 gallons more than his average monthly usage of 3,180 gallon but that the District could test his meter. Mr. Witt stated that he would monitor his usage and, if there was a problem in the future, he would request that his meter be tested.

The Office Manager advised the Board that the District had received notice from Irvine Municipal Utilities that, effective July 19, 2018, it would increase its rate to reflect an increase in the Kentucky River Authority's Tier II withdrawal fee. Irvine Municipal's current KRA withdrawal fee is \$.19 per 1000 gallons, its proposed rate is \$.35 per 1000 gallons, an increase of 84.03% or \$.16 increase per 1000 gallons. The Board considered then postponed a vote on increasing the District's rates until the June meeting to further investigate Irvine Municipal Utilities proposed increase.

The Board discussed the installation of the check valve at the Irvine Bridge Master Meter. Commissioner Click stated that Bee Williams with Irvine Municipal Utilities has assured him that the new valve has been ordered and will be installed within the next week.

Commissioner Click updated the Board on the status of refinancing/restructuring the three Citizen's Guaranty Bank (CGB) loans. He stated that he currently had a verbal agreement with Michael "Bucky" Wilson with CGB that the bank would be happy to help in any way they can. Commissioner Click is hopeful he will have something in writing by the next meeting.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to bill the contractors that are installing the sewer system for Irvine Municipal Utilities for damages incurred from April 12, 2018 thru May 27, 2018. Total cost to date is \$ 3, 775.36.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the non-recurring charges justifications and to submit them to the Kentucky Public Service Commission for approval.

The Board tabled the review of the new tariff. They would like to review the District's leak adjustment policy as well as permit customers the option of making payments on new meter connections.

The Operations Manager presented the Water Loss Report to the Board and reported that for March 2018 the un-revenue water was 42% and the unaccounted-for water was 17%.

The Office Manager presented the Board with the March financial statements. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the financial statements.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to change the Districts meeting time from the last Thursday of the month at 3:00pm to the last Thursday of the month at 9:00 am.

ON MOTION OF CLICK AND SECONDED BY STICKNEY, all members of the Board voted to designate Robert "Skip" Johnson Treasurer of the Board and the designate Jack Stickney Secretary of the Board.

Commissioner Click scheduled a special meeting for Friday, June 8, 2018 at 9:00 am.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to adjourn the meeting.

Signed

Secretary



Attested: 

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN SPECIAL SESSION FRIDAY JUNE 8, 2018 AT 9:00 AM. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT: BLAIN CLICK-CHAIRMAN, JACK STICKNEY-SECRETARY, ROBERT "SKIP" JOHNSON-TREASURER, AUDREA MILLER-OFFICE MANAGER & DWIGHT RICHARDSON, OPERATION MANAGER.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the agenda for the June 8, 2018, special Board of Commissioners Meeting.

The Board began by addressing the District's employees. Commissioner Click stated that the District is currently in poor financial condition and is facing some dire options which consisted of, but were not limited to; bankruptcy, merging, receivership, or restructuring. He also stated that he believed the District had the capacity to fix the problems, but that its employees must adopt a sense of urgency. He stated that the Board expected employee William Murphy to make water loss issues his priority and view it as his main responsibility. Commissioner Click also advise the employees that, in the event of a merger, the Boards goal would be to protect the Districts customers as well as its employees. He also wanted to reiterate that no one person was to blame and that the employees had to come together to fix the Districts water loss issues. Employee Earl Embry stated that he felt the District was sorely understaffed, Commissioner Stickney stated that he agreed and felt that the District should hire at least one employee as soon as possible. Employee Vernon Tipton said that he knew of at least 10 leaks in the system at this time. The Board urged the employees to repair all known leaks as they were found. Employee William Murphy stated that current employees needed a morale booster, he said he is currently making the same money he did 10 years ago. The Board agreed that salaries needed to be reviewed but felt that the District was not in any position to give raises until water loss was reduced and the District was on sound financial footing. To be more proactive, the Board advised employees to schedule one person to do the work orders and free up time for the other employees to work on water loss. Office manager, Audrea Miller stated that she felt the meter reading process could be streamlined to save some time as well. Commissioner Johnson said that he would like to check with Kentucky Rural Water Association to see if they could send a couple of men out to help. Mr. Murphy also stated that it was imperative that he have the ability to read the master meters daily. Commissioner Click stated that he would reach out to Irvine Municipal Utilities to see what could be done. The Board then advised the office manager and the distribution manager to draft parameter for hiring a temporary maintenance employee.

ON MOTION OF JOHNSON AND SECOND BY STICKNEY, all members of the Board voted to adopt resolution 2018-4, which states that the regular meeting of the Board of commissioners of Estill County Water District No. 1 shall be held at 9:00 a.m. local time on the last Thursday of each month at Estill County Water District No. 1's offices at 76 Cedar Grove Road, Irvine, Kentucky.

ON MOTION OF STICKNEY AND SECOND BY JOHNSON all members of the Board voted to move the District's Revenue and General accounts to Citizens Guaranty Bank.

ON MOTION OF STICKNEY AND SECOND BY CLICK all members of the Board voted to adjourn the meeting.

Attested: \_\_\_\_\_

Signed

Secretary





**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF  
ESTILL COUNTY WATER DISTRICT NO. 1 ESTABLISHING A  
TIME AND PLACE FOR ITS REGULAR MEETINGS**

**RESOLUTION NO. 2018- 4**

**WHEREAS**, Estill County Water District No. 1 is a public agency as defined in KRS 61.805(2);

**WHEREAS**, KRS 61.820 requires a public agency to provide a schedule of regular meetings for the conduct of its business;

**WHEREAS**, Estill County Water District No. 1 has previously established by resolution of its Board of Commissioners that regular meetings of that Board would be conducted on the last Thursday of each month at 4:00 p.m. local time at its offices;

**WHEREAS**, the Board of Commissioners of Estill County Water District No. 1 finds its regular meetings should now be conducted on the last Thursday of each month at 9:00 a.m. local time at its offices;

**NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 AS FOLLOWS:**

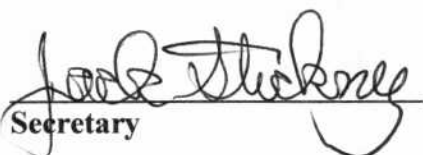
**Section 1.** The regular meeting of the Board of Commissioners of Estill County Water District No. 1 shall be held at 9:00 a.m. local time on the last Thursday of each month at Estill County Water District No. 1's offices at 76 Cedar Grove Road, Irvine, Kentucky.

**Section 2.** The Staff of Estill County Water District No. 1 are directed to take such actions as are required by KRS 61.820 to ensure that the time and place of the Board of Commissioners regular meeting is made available to the public.

**ADOPTED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 at a meeting held on June 8, 2018 signed by Chairman, and attested by the Secretary.**

  
\_\_\_\_\_  
**Chairman**

**ATTEST:**

  
\_\_\_\_\_  
**Secretary**



THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN REGULAR SESSION THURSDAY JUNE 28, 2018 AT 9:00 A.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING PERSONS PRESENT: BLAIN CLICK, CHAIRMAN; JACK STICKNEY, SECRETARY; ROBERT "SKIP" JOHNSON, TREASURER; AUDREA MILLER, OFFICE MANAGER; DWIGHT RICHARDSON, OPERATIONAL MANAGER; AND GERALD WUETCHER, LEGAL COUNSEL.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the agenda for the June 28, 2018 regular Board of Commissioners Meeting.

The Minutes of the May 31, 2018 regular board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the minutes as presented.

The Minutes of the May 15, 2018 special board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the minutes as presented.

The Minutes of the June 8, 2018 special board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the minutes as presented.

Billy "Bee" Williams, with Irvine Municipal Utilities (IMU), was present to discuss the proposed purchase water rate increase that would reflect the Kentucky River Authority's Tier II withdrawal fee increase. Mr. Williams stated that, after reviewing the previous calculations, he felt the proposed rate could be recalculated and reduced. Mr. Williams will send the District an official notice of increase once he has notified the Kentucky Public Service Commission.

The Board discussed the installation GPS on the District's maintenance vehicles. Commissioner Click stated that it was expensive, and he felt the Board should investigate putting apps on the District issued cell phones as cost effective alternative. No action was taken on the matter.

ON MOTION OF CLICK AND SECONDED BY STICKNEY, all members of the Board voted to pay the Columbia Gas bill, for damages at South Winn Avenue. Mr. Click stated that this served as a precedent and that the District would bill for damages in the future.

The Operations Manager presented the Water Loss Report to the Board and reported that for May 2018 the un-revenue water was 50% and the unaccounted-for water was 39%. Mr. Richardson stated that, in the last month, maintenance crews had found more than 20 leaks on individual service lines and once crews had completed inspecting all meters on route 2 he planned to repair any leaks. Mr. Richardson also advised the Board that the maintenance crews had tested 36 meters and found 13 of them to be faulty.

The Board discussed hiring contract labor to use for meter sets and possibly leak repair, until the District is in better financial condition, and can hire a full time employee.

ON MOTION OF CLICK AND SECONDED BY STICKNEY, all members of the Board voted to advise all District employees to track their time, using a daily log sheet, beginning July 1, 2018,

The Office Manager presented the Board with the May financial statements. ON MOTION OF JOHNSON AND SECONDED BY CLICK, all members of the Board voted to approve the financial statements.

Commissioner Johnson stated that he had been contacted by Ronnie Brandenburg at 550 Murphy Ford. Mr. Brandenburg's complaint was that he had low water pressure. The Operations Manager explained that Mr. Brandenburg was at a higher elevation and may need to install an in-line pump at the water meter. Commissioner Click ask the operations manager to make sure that Mr. Brandenburg did have adequate pressure at his meter.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to adjourn the meeting.

Signed Jack Stickney  
Secretary

Attested: Blair

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN REGULAR SESSION THURSDAY JULY 26, 2018 AT 9:00 A.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING PERSONS PRESENT: BLAIN CLICK, CHAIRMAN; JACK STICKNEY, SECRETARY; ROBERT "SKIP" JOHNSON, TREASURER; AUDREA MILLER, OFFICE MANAGER; DWIGHT RICHARDSON, OPERATIONAL MANAGER; AND GERALD WUETCHER, LEGAL COUNSEL.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the agenda for the July 26, 2018 regular Board of Commissioners Meeting.

The Minutes of the June 28, 2018 regular board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the minutes as presented.

The June financial report was presented to the board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the financial statements.

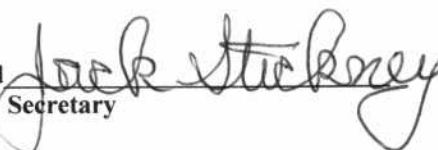
ON MOTION OF CLICK AND SECONDED BY STICKNEY, all members of the Board voted to approve the July pay warrants.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to adopt resolution 2018-5, which states that the District will increase its rates for service by \$0.20 per 1,000 gallons effective August 20, 2018 to reflect the increase in the cost of water purchased from Irvine Municipal Utilities which effective August 20, 2018 increased its wholesale water service from \$3.01 per 1,000 gallons to \$3.254 per 1,000 gallons.

ON MOTION OF CLICK AND SECONDED BY JOHNSON, all members of the Board voted to hire Bluegrass Area Development District to digitalize the Districts maps. A draft copy of the agreement will be submitted for review.

ON MOTION OF JOHNSON AND SECONDED BY CLICK, all members of the Board voted to adjourn the meeting.

Signed

  
Secretary

Attested:



*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

2018-5

**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF  
ESTILL COUNTY WATER DISTRICT NO. 1 ADJUSTING WATER  
RATES AND CHARGES TO OFFSET IRVINE MUNICIPAL  
UTILITIES' WHOLESALE RATE INCREASE**

**WHEREAS**, the Irvine Municipal Utilities ("Irvine") is Estill County Water District No. 1's primary wholesale water supplier;

**WHEREAS**, on May 21, 2018, Irvine filed with the Kentucky Public Service Commission notice of an increase in its wholesale water rate from \$3.13 per 1,000 gallons to \$3.29 per 1,000 gallons effective July 19, 2018;

**WHEREAS**, Irvine subsequently revised its proposed increase and filed with the Kentucky Public Service Commission an amended notice in which it proposed to increase in its wholesale water rate from \$3.13 per 1,000 gallons to \$3.254 per 1,000 gallons effective August 20, 2018;

**WHEREAS**, based upon the water purchases from Irvine during the previous 12 months, the annual increased cost to Estill County Water District No. 1 will be approximately **\$31,649.27**;

**WHEREAS**, prudent financial management dictates that Estill County Water District No. 1 take immediate action to adjust its retail rates commensurate with Irvine's wholesale rate increase; and

**WHEREAS**, KRS 278.015 and 807 KAR 5:068 provide the legal mechanism for Estill County Water District No. 1 to increase its water rates commensurate with Irvine's wholesale rate increase via a Purchased Water Adjustment ("PWA");

**NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 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.** The PWA factor is **\$0.20** per 1,000 gallons;

**Section 3.** All tiers of all meter sizes of Estill County Water District No. 1's existing tariff shall be increased by \$0.20 per 1,000 gallons, effective August 20, 2018, subject to any minor adjustment that may be made by the Kentucky Public Service Commission.

**Section 4.** The monthly water rates to be charged to and collected from the customers and users of Estill County Water District No. 1's water system shall be as set forth in **Appendix A**, which is attached hereto and is incorporated herein by reference as a part of this Resolution. These monthly rates and charges shall be in effect for all water service rendered on and after August 20, 2018.

**Section 5.** The Chairman is hereby authorized and directed to execute and file the PWA Application, Tariff Sheet, and all other documents that may be required by the Kentucky Public Service Commission.

**Section 6.** The Chairman, all appropriate Staff, and Estill County Water District No. 1's attorney are hereby further authorized and directed to take any and all other actions and to execute and deliver any and all other documents as may be reasonably necessary to implement the PWA.

**Section 7.** This Resolution shall take effect upon its adoption.

**ADOPTED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 at a meeting held on July 26, 2018 signed by the Chairman, and attested by the Secretary.**

  
\_\_\_\_\_  
Chairman

**ATTEST:**

  
\_\_\_\_\_  
Secretary

**APPENDIX A**  
**APPENDIX TO A RESOLUTION OF THE BOARD OF COMMISSIONERS OF**  
**ESTILL COUNTY WATER DISTRICT NO. 1**  
**DATED JULY 26, 2018**

**RATES FOR WATER SERVICE PROVIDED BY ESTILL COUNTY WATER**  
**DISTRICT NO. 1 ON AND AFTER AUGUST 20, 2018**

**5/8-Inch Meter**

First	2,000 gallons	\$ 21.58 Minimum bill
Next	3,000 gallons	\$ 10.53 per 1,000 gallons
Next	5,000 gallons	\$ 10.31 per 1,000 gallons
All over	10,000 gallons	\$ 8.20 per 1,000 gallons

**1-Inch Meter**

First	5,000 gallons	\$ 53.18 Minimum bill
Next	5,000 gallons	\$ 10.31 per 1,000 gallons
All over	10,000 gallons	\$ 8.20 per 1,000 gallons

**2-Inch Meter**

First	10,000 gallons	\$154.75 Minimum bill
All over	10,000 gallons	\$ 8.20 per 1,000 gallons

**Bulk Loading Station**

\$ 7.50 per 1,000 gallons

A \$4.81 per month surcharge is added to the minimum bill for all Cobhill customers.

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN REGULAR SESSION THURSDAY AUGUST 30, 2018 AT 9:00 A.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING PERSONS PRESENT: BLAIN CLICK, CHAIRMAN; JACK STICKNEY, SECRETARY; ROBERT "SKIP" JOHNSON, TREASURER; AUDREA MILLER, OFFICE MANAGER; DWIGHT RICHARDSON, OPERATIONAL MANAGER; AND GERALD WUETCHER, LEGAL COUNSEL.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the agenda for the August 30, 2018 regular Board of Commissioners Meeting.

The Minutes of the July 26, 2018 regular board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY CLICK, all members of the Board voted to approve the minutes as presented.

ON MOTION OF JOHNSON AND SECONDED BY CLICK, all members of the Board voted to adopt resolution 2018-6, to authorize an application to the Kentucky Public Service Commission for authorization to issue an evidence of indebtedness and other relief as necessary.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to authorize the filing of the proposed revised tariff sheets, with the Kentucky Public Service Commission, to cancel the old tariff and replace it with the new.

ON MOTION OF STICKNEY AND SECONDED BY CLICK, all members of the Board voted to accept the engagement letter, for legal services for general regulatory matters, from Gerald Wuetcher with Stool, Keenon, Ogden PLLC.

The July financial report was presented to the board. ON MOTION OF CLICK AND SECONDED BY JOHNSON, all members of the Board voted to approve the financial statements.

ON MOTION OF CLICK AND SECONDED BY STICKNEY, all members of the Board voted to accept the \$18,500.00 quote from The CI Thornburg, to upgrade the automatic meter reading system.

ON MOTION OF JOHNSON AND SECONDED BY CLICK, all members of the Board voted to adjourn the meeting.

Signed   
Secretary

Attested: 

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

RESOLUTION NO. 2018-6

**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF  
ESTILL COUNTY WATER DISTRICT NO. 1 AUTHORIZING AN  
APPLICATION TO THE KENTUCKY PUBLIC SERVICE  
COMMISSION FOR AUTHORIZATION TO ISSUE AN EVIDENCE  
OF INDEBTEDNESS AND OTHER RELIEF AS NECESSARY**

**WHEREAS**, Estill County Water District No. 1 is currently delinquent on the payment of its obligations existing under several series of bonds that it has issued to finance waterworks improvements;

**WHEREAS**, Rural Development is the owner of these bonds;

**WHEREAS**, Estill County Water District No. 1 has had discussions with Rural Development regarding the restructuring of its outstanding loan;

**WHEREAS**, Rural Development's Kentucky State Office has proposed a plan for the restructuring Estill County Water District No. 1's existing bonded debt and that Rural Development's National Office is reviewing the proposed plan;

**WHEREAS**, a condition of the proposed debt restructuring plan is that Estill County Water District No. 1 restructure its outstanding loans with Citizens Guaranty Bank to allow for repayment over a period of ten (10) years or longer from the date that proposed Rural Development restructuring plan is implemented;

**WHEREAS**, Citizens Guaranty Bank has committed to the restructuring of its existing loans to Estill County Water District No. 1 and has set forth the terms of this commitment in a letter dated August 13, 2018 ("Commitment Letter"), a copy of which is appended to this Resolution;

**WHEREAS**, the terms set forth in the Commitment Letter are reasonable and will enable Estill County Water District No. 1 to meet the conditions of Rural Development's proposed debt restructuring plan and will enable Estill County Water District No. 1 to improve its financial condition and continue to provide water service to the residents of Estill County;

**WHEREAS**, KRS 278.300 prohibits a utility from issuing an evidence of indebtedness until it has been authorized to do so by an order of the Kentucky Public Service Commission; and

**WHEREAS**, the Kentucky Public Service Commission found in PSC Case No. 2017-00176 that Estill County Water District No. 1's existing loans with Citizens Guaranty Bank were entered for the purpose of meeting operating expenses and were not eligible for recovery through rates;

**NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 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.** Legal Counsel for Estill County Water District No. 1 is hereby authorized and directed to take any and all actions to apply to the Kentucky Public Service Commission for authorization for Estill County Water District No. 1 to issue any evidences of indebtedness necessary to implement the proposed restructuring of Estill County Water District No. 1's existing loans with Citizens Guaranty Bank under the terms set forth in the Commitment Letter.

**Section 3.** Legal Counsel for Estill County Water District No. 1 is further authorized to represent to the Kentucky Public Service Commission that, if authorization for the proposed restructuring of the existing loans with Citizens Guaranty Bank under the terms set forth in the Commitment Letter, Estill County Water District No. 1 will not request pursuant to KRS 278.180 any recovery through rates of the principal and interest payments related to the existing loans with Citizens Guaranty Bank or the restructured loan agreement with Citizens Guaranty Bank

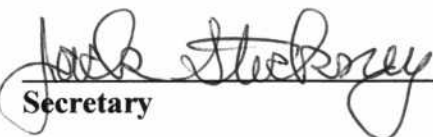
**Section 4.** The Chairman is hereby authorized and directed to execute any Application to the Kentucky Public Service Commission necessary to obtain authorization for Estill County Water District No. 1 to issue any evidences of indebtedness necessary to implement the proposed restructuring of Estill County Water District No. 1's existing loans with Citizens Guaranty Bank under the terms set forth in the Commitment Letter.

**Section 5.** This Resolution shall take effect upon its adoption.

**ADOPTED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 at a meeting held on August 30, 2018 signed by the Chairman, and attested by the Secretary.**

  
\_\_\_\_\_  
Chairman

**ATTEST:**

  
\_\_\_\_\_  
Secretary

**APPENDIX TO A RESOLUTION OF THE BOARD OF COMMISSIONERS OF  
ESTILL COUNTY WATER DISTRICT NO. 1  
DATED AUGUST 30, 2018**



www.CitizensGuaranty.com • Member FDIC

August 13, 2018

Attention: Gerald E. Wuetcher  
Attorney f/b/o Estill County Water District #1  
Stoll, Keenon, and Ogden PLLC  
300 W. Vine Street, Ste. 2100  
Lexington, Kentucky 40507-1801

This letter is to acknowledge that Citizens Guaranty Bank has committed to consolidate the Estill County Water District's current four loans into one loan with an outstanding balance of approximately \$264,779.28. The consolidated loans will be amortized over a ten-year term and have an initial interest rate of three percent per annum. The interest rate on the consolidated loan would be readjusted on the third and seventh anniversaries of the loan's execution date to the current market rate. The interest rate; however, could not exceed the interest rate of the most recent auction of two-year US Treasury Notes at the time of the loan anniversary plus 1.5% and could not be adjusted lower than 3%. The consolidated loan could be prepaid without penalty. In addition, the bank will continue to maintain the same security interest as it presently has under the existing loans. This commitment will be honored by Citizens Guaranty Bank for a period of 90 days from the date of this commitment letter. Should you have any questions, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "Michael D. Wilson", is written over the typed name.

Michael D. Wilson  
President

THE ESTILL COUNTY WATER DISTRICT NO. 1 BOARD OF COMMISSIONERS ("THE BOARD") MET IN SPECIAL SESSION THURSDAY SEPTEMBER 6, 2018 AT 9:00 AM. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT: BLAIN CLICK-CHAIRMAN, JACK STICKNEY-SECRETARY, ROBERT "SKIP" JOHNSON-TREASURER, AUDREA MILLER-OFFICE MANAGER & DWIGHT RICHARDSON, OPERATION MANAGER.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District No. 1 was present. The meeting then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the agenda for the September 6, 2018, special Board of Commissioners Meeting.

Alan Bowman, with Bell Engineering, was present to assist the Board in prioritizing a list of items to be included in a project profile and submitted to Kentucky Infrastructure Authority for approval. Each member of Board agreed that the proposed project's principal purpose should be the significant reduction of Estill County Water District No. 1's non-revenue water. They agreed that the proposed project should be designated as "Phase 11-Water Loss Reduction" and should include the following items:

1. The installation of flow meters with Telemetry at tank sites (9 meters), pumping stations (7 meters) and Irvine Bridge (1 meter). The installation at Irvine Bridge should include an altitude valve. The installation of these meters will allow for more accurate and greater monitoring of water flows and increase the water district's ability to determine water leaks.
2. The replacement of 700 residential meters. The water district's existing meters are near the end of their useful life and replacement of these meters with more sensitive and accurate meters will enable the water district to reduce non-revenue water resulting from inaccurate meters.
3. The replacement of creek crossings at the Locust School Branch, McSwain Branch, and Station Camp Creek (four crossings). In all six creek crossings would be replaced. The replacement will better secure the water district's facilities during periods of flash flooding and heavy rains.
4. Updating the hydraulic model of the water district's system to ensure the water district has a system model that reflects the current design and operation of its water system. An updated system model will better enable the water district to identify and locate water main breaks and thus reduce the level of non-revenue water.

ON MOTION OF STICKNEY AND SECOND BY JOHNSON all members of the Board voted approve the proposed project profile.

ON MOTION OF STICKNEY AND SECOND BY JOHNSON all members of the Board voted to adjourn the meeting.

Signed John Stickney  
Secretary

Attested: Blair Clark

*\*Meeting agenda and sign in sheets are filed in the District's office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN REGULAR SESSION THURSDAY SEPTEMBER 27, 2018 AT 9:00 A.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING PERSONS PRESENT: BLAIN CLICK, CHAIRMAN; JACK STICKNEY, SECRETARY; ROBERT "SKIP" JOHNSON, TREASURER; AUDREA MILLER, OFFICE MANAGER; DWIGHT RICHARDSON, OPERATIONAL MANAGER; AND GERALD WUETCHER, LEGAL COUNSEL (VIA TELECONFERENCE).

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the agenda for the September 27, 2018 regular Board of Commissioners Meeting.

The Minutes of the August 30, 2018 regular board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the minutes as presented.

The Minutes of the September 6, 2018 special board meeting were presented to the Board. ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the minutes as presented.

The August financial report was presented to the board. ON MOTION OF JOHNSON AND SECONDED BY CLICK, all members of the Board voted to approve the financial statements.

ON MOTION OF JOHNSON AND SECONDED BY CLICK, all members of the Board voted to rent a dumpster from Advance Disposal. The cost for a 6-yard dumpster is \$78.00 per month.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to adjourn the meeting.

Signed

Secretary



Attested:



*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN SPECIAL SESSION MONDAY OCTOBER 29, 2018 AT 9:00 AM. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT: BLAIN CLICK-CHAIRMAN, JACK STICKNEY-SECRETARY, ROBERT "SKIP" JOHNSON-TREASURER, AUDREA MILLER-OFFICE MANAGER, DWIGHT RICHARDSON, OPERATION MANAGER AND GERALD WUETCHER, LEGAL COUNSEL.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the agenda for the October 29, 2018, special Board of Commissioners Meeting.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to review 2019 Christmas bonuses at the November meeting.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to begin depositing \$15,000.00 monthly into the USDA-RD Sinking Reserve account.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the financial report for the month of September and authorized payment of all vouchers.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to go into closed session at 12:00 p.m. pursuant to KRS 61.810(1)(f) to discuss personnel matters.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to return to open session at 12:55 p.m.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to adjourn the meeting.

Attested: \_\_\_\_\_

*Blain Click*

Signed

Secretary

*Jack Stickney*

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT NO. 1 BOARD OF COMMISSIONERS ("THE BOARD") MET IN SPECIAL SESSION THURSDAY NOVEMBER 29, 2018 AT 2:00 PM. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT: BLAIN CLICK-CHAIRMAN, JACK STICKNEY-SECRETARY, ROBERT "SKIP" JOHNSON-TREASURER, AUDREA MILLER-OFFICE MANAGER, DWIGHT RICHARDSON, OPERATION MANAGER AND GERALD WUETCHER, LEGAL COUNSEL.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the agenda for the November 29, 2018, special Board of Commissioners Meeting.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the minutes from the special meeting held on October 29, 2018.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to accept the legal service agreement with Rubin & Hayes for the purpose of the USDA, Rural Development bond reamortization.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to select United Health Care Choice Plus for the District health insurance plan effective December 1, 2018 and to exclude from the health insurance package any health reimbursement account.

ON MOTION OF STICKNEY AND SECONDED BY CLICK, all members of the Board voted to contract with Robert Abner with Christian & Sturgeon to conduct the District's next three annual audits.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to authorize Audrea Miller to sign the FCC contracts for the Sensus meter reading software.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to accept the financial statements and authorize payment of warrants as presented.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to adjourn the meeting.

Attested: \_\_\_\_\_

Signed

Secretary

*Jack Stickney*

*Blain Click*

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*



THE ESTILL COUNTY WATER DISTRICT NO. 1 BOARD OF COMMISSIONERS ("THE BOARD") MET IN SPECIAL SESSION FRIDAY DECEMBER 7, 2018 AT 2:00 PM. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT: BLAIN CLICK-CHAIRMAN, JACK STICKNEY-SECRETARY, ROBERT "SKIP" JOHNSON-TREASURER, AND AUDREA MILLER-OFFICE MANAGER.

From the roll call, it was determined that a quorum of the Board of Commissioners of Estill County Water District No. 1 was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the agenda for the December 7, 2018, special Board of Commissioners Meeting.

ON MOTION OF CLICK AND SECONDED BY STICKNEY, all members of the Board voted to adopt resolution 2018-7 authorizing and providing for the issuance of Estill County Water District No. 1 Waterworks Revenue Bonds, Series 2018A through F, for the purpose of reamortizing and reducing the interest rates of certain outstanding obligations of the District previously issued; and setting forth the terms and conditions upon which said obligations may be reissued and reamortized. A copy of this resolution is attached.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to adjourn the meeting.

Signed

Secretary

Attested:



*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

2018-7  
REPLACEMENT BOND RESOLUTION

**RESOLUTION OF THE ESTILL COUNTY WATER DISTRICT NO. 1  
AUTHORIZING AND PROVIDING FOR THE ISSUANCE OF THE ESTILL  
COUNTY WATER DISTRICT NO. 1 WATERWORKS REVENUE BONDS,  
SERIES 2018A THROUGH F, FOR THE PURPOSE OF REAMORTIZING  
AND REDUCING THE INTEREST RATES OF CERTAIN OUTSTANDING  
OBLIGATIONS OF THE DISTRICT PREVIOUSLY ISSUED; AND SETTING  
FORTH THE TERMS AND CONDITIONS UPON WHICH SAID  
OBLIGATIONS MAY BE REISSUED AND REAMORTIZED.**

WHEREAS, the waterworks system (the "System") of the Estill County Water District No. 1 (the "District") is owned and operated by said District pursuant to Chapters 58 and 74 of the Kentucky Revised Statutes (the "Act"); and

WHEREAS, the District presently has outstanding certain Prior RD Bonds (as hereinafter defined), which Prior RD Bonds are payable from and secured by a pledge of the revenues derived from the operation of the System; and

WHEREAS, all of the Prior RD Bonds were sold to and are presently held by the United States Department of Agriculture, acting through Rural Development ("RD"); and

WHEREAS, all of the Prior RD Bonds are in default as to the payment of principal and interest thereon; and

WHEREAS, it is the desire and intent of the District at this time to authorize the issuance of the Estill County Water District No. 1 Waterworks Revenue Bonds, Series A through F (collectively, the "Replacement Bonds") to replace and be substituted for and provide for the reamortization and reduction in interest rates of the Prior RD Bonds in order to allow the District to become current on its debt service payments; and

WHEREAS, RD Staff Instruction 1782-1 [specifically Sections 1782-20(l) and (m)] allows for RD to reamortize and readjust the interest rates on outstanding delinquent Water and Waste loans issued under the Water and Environmental Programs regulations, and

WHEREAS, the District, through assistance from the Kentucky RD office, has applied for and received approval from the RD National Office, pursuant to RD Staff Instruction 1782-1, to reamortize the principal and interest of, and adjust the interest rates on the outstanding Prior RD Bonds,

NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE BOARD OF COMMISSIONERS OF THE ESTILL COUNTY WATER DISTRICT NO. 1, AS FOLLOWS:

**Section 101. Definitions.** As used in this Resolution, unless the context requires otherwise:

*"Act"* refers to Chapters 58 and 74 of the Kentucky Revised Statutes.

*"Beginning Month"* refers to the month following the month in which the Replacement Bonds authorized herein are issued, substituted and delivered to RD.

*"Bond Counsel"* refers to an attorney or firm of attorneys recognized nationally as experts in the field of municipal bond law and shall be deemed to refer to Rubin & Hays, Louisville, Kentucky, or their successors.

*"Bondowner" or "Owner"* refer to registered Owners of the Replacement Bonds at the time issued and outstanding hereunder.

*"Bonds"* collectively refers to the Replacement Bonds and any other outstanding bonds of the District.

*"Bonds of 1991A" or "Series 1991A Bonds"* refer to the outstanding Estill County Water District No. 1 Waterworks Revenue Bonds of 1991, Series A, dated September 3, 1992, in the original authorized principal amount of \$521,000, bearing interest at the rate of 5.00% per annum.

*"Bonds of 1991B" or "Series 1991B Bonds"* refer to the outstanding Estill County Water District No. 1 Waterworks Revenue Bonds of 1991, Series B, dated September 3, 1992, in the original authorized principal amount of \$101,000, bearing interest at the rate of 5.00% per annum.

*"Bonds of 1996" or "Series 1996 Bonds"* refer to the outstanding Estill County Water District No. 1 Waterworks Revenue Bonds, Series 1996, dated January 30, 1997, in the original authorized principal amount of \$505,000, bearing interest at the rate of 4.50% per annum.

*"Bonds of 2000" or "Series 2000 Bonds"* refer to the outstanding Estill County Water District No. 1 Waterworks and Sewer Revenue Bonds, Series 2000, dated March 10, 2000, in the original authorized principal amount of \$975,000, bearing interest at the rate of 4.50% per annum.

*"Bonds of 2006" or "Series 2006 Bonds"* refer to the outstanding Estill County Water District No. 1 Water and Sewer Revenue Bonds, Series 2006, dated December 22, 2006, in the original authorized principal amount of \$945,000, bearing interest at the rate of 4.125% per annum.

*"Bonds of 2014" or "Series 2014 Bonds"* refer to the outstanding Estill County Water District No. 1 Waterworks Revenue Bonds, Series 2014, dated July 10, 2014, in the original authorized principal amount of \$1,699,000, bearing interest at the rate of 2.375% per annum.

*"Bond Resolution of 1991" or "1991 Bond Resolution"* refer to the Resolution authorizing the Bonds of 1991A and the Bonds of 1991B, duly adopted by the Board of Commissioners of the District on November 27, 1991.

*"Bond Resolution of 1996"* or *"1996 Bond Resolution"* refer to the Resolution authorizing the Bonds of 1996, duly adopted by the Board of Commissioners of the District on July 30, 1996.

*"Bond Resolution of 2000"* or *"2000 Bond Resolution"* refer to the Resolution authorizing the Bonds of 2000, duly adopted by the Board of Commissioners of the District on October 13, 1999.

*"Bond Resolution of 2006"* or *"2006 Bond Resolution"* refer to the Resolution authorizing the Bonds of 2006, duly adopted by the Board of Commissioners of the District on July 8, 2006.

*"Bond Resolution of 2014"* or *"2014 Bond Resolution"* refer to the Resolution authorizing the Bonds of 2014, duly adopted by the Board of Commissioners of the District on August 29, 2013.

*"Chairman"* refers to the elected or appointed Chairman or Chairperson of the Commission.

*"Code"* refers to the Internal Revenue Code of 1986, as amended, and the Treasury Regulations relating thereto.

*"Commission"* refers to the Board of Commissioners of the District, or such other body as shall be the governing body of said District under the laws of Kentucky at any given time.

*"District"* refers to the Estill County Water District No. 1 of Estill County, Kentucky.

*"Fiscal Year"* refers to the annual accounting period of the District, beginning on January 1, and ending on December 31, of each year.

*"Government"* refers to the United States of America, or any agency thereof, including RD.

*"Modification Agreement"* refers to the modification agreement by and between the District and RD, as owner of the outstanding Prior RD Bonds, dated as of the date of issuance of the Replacement Bonds.

*"Outstanding Bonds"* refers to the outstanding Bonds, and does not refer to, nor include, any Bonds for the payment of the principal and interest of which sufficient funds will have been deposited and earmarked for payment of Bonds; provided all Outstanding Bonds of any series held by the RD shall be deemed to constitute Outstanding Bonds until paid regardless of the deposit of funds to pay for same.

*"Prior RD Bonds"* refers collectively to the Bonds of 1991A, the Bonds of 1991B, the Bonds of 1996, the Bonds of 2000, the Bonds of 2006 and the Bonds of 2014.

*"Prior RD Bond Resolution"* refers collectively to the 1991 Bond Resolution, the 1996 Bond Resolution, the 2000 Bond Resolution, the 2006 Bond Resolution and the 2014 Bond Resolution.

*"RD"* refers to the United States Department of Agriculture, acting through Rural Development.

*"Replacement Bond Resolution"* or *"Resolution"* refer to this Resolution authorizing the issuance of the Replacement Bonds to replace and be substituted for the Prior RD Bonds.

*"Replacement Bonds"* collectively refers to the Estill County Water District No. 1 Waterworks Revenue Bonds, Series 2018 in the aggregate principal amount set forth in the Modification Agreement, consisting of Series A Bonds, Series B Bonds, Series C Bonds, Series D Bonds, Series E Bonds and Series F Bonds, all of which are authorized by this Resolution, to be dated as of the date of issuance thereof.

*"Secretary"* refers to the elected or appointed Secretary of the Commission.

*"System"* refers to the existing water system of the District, together with all extensions, additions and improvements to said System.

*"Treasurer"* refers to the elected or appointed Treasurer of the Commission.

All words and terms importing the singular number shall, where the context requires, import the plural number and vice versa. Unless otherwise indicated, references to Articles or Sections refers to those in this Resolution.

**Section 102. Authorization of Reamortization of Prior RD Bonds through the Issuance of the Replacement Bonds.** The Prior RD Bonds are currently in default as to the payment of principal and interest thereon. The District desires to reamortize the principal and interest due and owing on the Prior RD Bonds and reduce the current interest rates thereon through the issuance of the Replacement Bonds in order to allow the District become current on its debt service payments.

Accordingly, the District hereby authorizes the issuance of the Replacement Bonds which shall be substituted for and replace the outstanding Prior RD Bonds.

The Replacement Bonds shall be dated as of the date of delivery to RD; shall bear interest from such date at such interest rate as may be prescribed by RD; and shall be issued and delivered as prescribed in Section 107 hereof.

Interest on the Replacement Bonds shall be payable semiannually on February 1 and August 1 of each year, provided that the first interest payment period will cover interest only from the date of delivery of the Replacement Bonds to the ensuing February 1 or August 1, as the case may be. Principal of the Replacement Bonds shall be payable on February 1 of each of the respective years until maturity, as set out in Section 106 hereof.

**Section 103. Approval of Modification Agreement.** The District hereby approves the terms and conditions in the Modification Agreement and authorizes the Chairman to execute said Modification Agreement with the Corporate Seal of the District affixed thereto and attested by the signature of the Secretary.

**Section 104. Recognition of Prior RD Bonds.** The District hereby expressly recognizes and acknowledges that the District has previously created for the benefit and protection of the

owners of the Prior RD Bonds, a certain lien and pledge and certain security rights relating to the System, all as set forth in the Prior RD Bonds and the Prior RD Bond Resolution.

**Section 105. Replacement Bonds Shall be Payable Out of Gross Revenues.** The Replacement Bonds shall continue to be secured by and payable solely out of the gross revenues of the System as provided in the Prior RD Bond Resolution.

**Section 106. Principal Payments.** Principal payments due on the Replacement Bonds shall be as set forth in the Modification Agreement.

**Section 107. Issuance of Replacement Bonds; Bond Form.** RD shall take delivery of the Replacement Bonds in the form of one or more fully registered bonds, as set forth in **Exhibit A** attached hereto and incorporated herein, amounting in the aggregate to the principal amount of the Replacement Bonds authorized herein. The Replacement Bonds shall be numbered R-1 and consecutively upward thereafter. Such Replacement Bonds shall, upon appropriate execution on behalf of the District as prescribed, constitute the entire bond issue herein authorized, shall be negotiable (subject to registration requirements as to transferability), registered as to principal and interest and payable as directed by RD.

**Section 108. Place of Payment and Manner of Execution.** Both principal of and interest on the Replacement Bonds shall be payable at the place and in the manner set out in the form of such Replacement Bond. The Replacement Bonds shall be executed on behalf of the District by the manual or facsimile signature of the Chairman of the District, with the Corporate Seal of the District affixed thereto and attested by the manual or facsimile signature of the Secretary of said District.

If either of the officers whose signatures appear on the Replacement Bonds ceases to be such officer before delivery of said Replacement Bonds, such signatures shall nevertheless be valid for all purposes the same as if such officers had remained in office until delivery.

**Section 109. Provisions as to Prepayment.** The Replacement Bonds shall be subject to prepayment by the District at any time in accordance with any applicable RD regulations.

**Section 110. Arbitrage Limitations.** The District covenants and certifies, in compliance with the Code, on the basis of known facts and reasonable expectations on the date of adoption of this Resolution, that it is not expected that the proceeds of the Bonds will be used in a manner which would cause the Bonds to be "arbitrage bonds" within the meaning of Section 148 of the Code. The District covenants to the Owners of the Bonds that (1) the District will make no use of the proceeds of said Bonds which, if such use had been reasonably expected on the date of issue of such Bonds, would have caused such Bonds to be "arbitrage bonds"; and (2) the District will comply with all of the requirements of the Code to whatever extent is necessary to assure that the Bonds shall not be treated as or constitute "arbitrage bonds" and that the interest on the Bonds shall be excludable from gross income for federal income tax purposes.

Prior to or at the time of delivery of the Replacement Bonds, the Chairman and/or the Treasurer (who are jointly and severally charged with the responsibility for the issuance of the Replacement Bonds) are authorized to execute such certifications as shall be required by Bond

Counsel, setting out all known and contemplated facts concerning the anticipated construction, expenditures and investments, including the execution of necessary and/or desirable certifications of the type contemplated by Section 148 of the Code in order to assure that interest on the Replacement Bonds shall be excludable from gross income for federal income tax purposes and that the Replacement Bonds will not be treated as "arbitrage bonds".

**Section 111. Funds.** The District has provided for the flow of funds in the Prior RD Bond Resolution which provisions shall continue in force and inure to the security and benefit of the Replacement Bonds, the same as if such provisions and proceedings were set out in full herein

**Section 112. Prior Bond Resolution Provisions Applicable to the Replacement Bonds.** The District shall comply all of the provisions and covenants contained in the Prior RD Bond Resolution which shall remain in full force and effect, as same shall apply to the Replacement Bonds which provisions and covenants are hereby specifically ratified and confirmed.

**Section 113. Covenant of District to Take All Necessary Action To Assure Compliance with the Code.** In order to assure RD that such Replacement Bonds shall continue to be legal and that interest thereon will continue to be excludable from gross income for federal income tax purposes and exempt from all Kentucky income taxation, the District covenants to and with RD to take the following action:

(a) The District will (1) take all actions necessary to comply with the provisions of the Code necessary to assure that interest on the Replacement Bonds will be excludable from gross income for federal income tax purposes; (2) will take no actions which will violate any of the provisions of the Code; and (3) not use the proceeds of the Replacement Bonds for any purpose which will cause interest on the Replacement Bonds to become includable in gross income for federal income tax purposes.

(b) The District further certifies that the Replacement Bonds are not "private activity bonds" within the meaning of the Code.

(c) The District covenants and agrees to comply with the rebate requirements imposed by Section 148 of the Code, and in the event it is determined by the District, upon the advice of Bond Counsel, any fund associated with the Replacement Bonds is subject to said rebate requirements and does in fact generate earnings from "non-purpose investments" in excess of the amount which said investments would have earned at a rate equal to the "yield" on the Replacement Bonds, plus any income attributable to such excess, there shall be established a separate and special fund, which fund shall be designated the "Excess Earnings and Rebate Fund", which shall be utilized for the collection and payment of any excess generated from investments and the remittance thereof to the United States of America on or before the anniversary of the fifth (5th) year from the date of the Replacement Bonds, and once every five (5) years thereafter until the final retirement of the Replacement Bonds; the last installment, to the extent required, to be made no later than sixty (60) days following the date on which funds sufficient for the complete retirement of the Replacement Bonds are deposited with any escrow agent. The District further covenants to file any and all reports, if any, as may be required to be filed with the Government with regard to the

liability or non-liability of the District as to any such rebate requirements and to maintain records in regard thereto for the period of time required by applicable Treasury regulations.

**Section 114. Severability Clause.** If any section, paragraph, clause or provision of this Resolution shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the remaining provisions of this Resolution, which shall continue in full force and effect.

**Section 115. All Provisions in Conflict Repealed.** All motions, resolutions and orders, or parts thereof, in conflict with the provisions of this Resolution, are to the extent of such conflict hereby repealed. It is hereby specifically ordered and provided that any proceedings heretofore taken for the issuance of other bonds of the District payable or secured in any manner by all or any part of the income and revenues of said System or any part thereof, and which have not been heretofore issued and delivered, are hereby revoked and rescinded, and none of such other bonds shall be issued and delivered. The District covenants to correct by appropriate proceedings any required procedure previously taken invalidly.

**Section 116. Effective Immediately Upon Adoption.** This Resolution shall take effect and be effective immediately upon its adoption.

Adopted this December 7, 2018.

Estill County Water District No. 1



Chairman



(Seal of District)

Attest:



Secretary

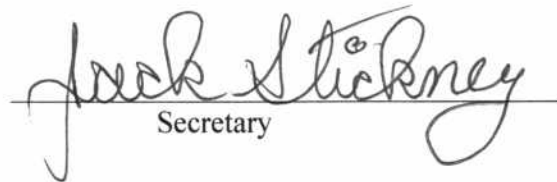


CERTIFICATION

I, the undersigned, hereby certify that I am the duly qualified and acting Secretary of the Estill County Water District No. 1, and that the foregoing Resolution is a true copy of a Resolution duly adopted by the Board of Commissioners of said District, signed by the Chairman of said District and attested under Seal by me as Secretary, at a properly convened meeting of said Board of Commissioners held on December 7, 2018, as shown by the official records of said District in my custody and under my control.

I further certify that said meeting was duly held in accordance with all applicable requirements of Kentucky law, including KRS 61.810, 61.815, 61.820 and 61.825, that a quorum was present at said meeting, that said Resolution has not been modified, amended, revoked or repealed, and that same is now in full force and effect.

IN TESTIMONY WHEREOF, witness my signature as Secretary and the official Seal of the District this December 7, 2018.

  
Secretary



**EXHIBIT A**

(FORM OF FULLY REGISTERED BOND)

**UNITED STATES OF AMERICA  
COMMONWEALTH OF KENTUCKY  
ESTILL COUNTY WATER DISTRICT NO. 1  
WATERWORKS REVENUE BONDS, SERIES 2018** \_\_

No. \_\_R-\_\_\_\_ Interest Rate: 2.375% \$\_\_\_\_\_

KNOW ALL PERSONS BY THESE PRESENTS:

That the Estill County Water District No. 1 (the "District"), acting by and through its Board of Commissioners (the "Commission"), a public body corporate in Estill County, Kentucky, for value received, hereby promises to pay to

\_\_\_\_\_

the registered owner hereof, or to its registered assigns, solely from the fund hereinafter identified, the sum of

\_\_\_\_\_ DOLLARS (\$\_\_\_\_\_ ),

on the first day of February, in years and installments as follows:

<u>Year</u>	<u>Principal</u>	<u>Year</u>	<u>Principal</u>	<u>Year</u>	<u>Principal</u>
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[Here the printer of the Current Bond will print the maturities of the Current Bonds purchased by the registered Owner]

and in like manner, solely from said fund, to pay interest on the balance of said principal sum from time to time remaining unpaid, at the Interest Rate specified above, semiannually on the first days of February and August in each year, beginning with the first February or August after the date of this Bond, until said sum is paid, except as the provisions hereinafter set forth with respect to prepayment may be and become applicable hereto, both principal and interest being payable, without deduction for exchange or collection charges, in lawful money of the United States of America, at the address of the registered owner shown on the registration book of the District.

This Bond is issued by the District under and in full compliance with the Constitution and Statutes of the Commonwealth of Kentucky, including Chapters 58 and 74 of the Kentucky Revised Statutes (collectively the "Act"), and pursuant to a duly adopted Resolution of the District

authorizing same (the "Replacement Bond Resolution") for the purpose of reamortizing the outstanding Estill County Water District No. 1 Waterworks Revenue Bonds, Series \_\_\_\_\_, dated \_\_\_\_\_ (the "\_\_\_\_\_ Bonds"), authorized by a Resolution adopted by the Commission of the District on \_\_\_\_\_ (the "\_\_\_\_\_ Bond Resolution"). This Bond is being issued to replace and be substituted for the \_\_\_\_\_ Bonds which are currently in default as to the payment of principal and interest thereon and reference is hereby made to the \_\_\_\_\_ Bond Resolution, which shall remain in full force and effect, for a description of the nature and extent of the security thereby created, the rights and limitations of rights of the registered owner of this Bond, and the rights, obligations and duties of the District,

This Bond is issued is payable from and secured by a pledge of the gross revenues to be derived from the operation of the waterworks system (the "System") all as provided for in the \_\_\_\_\_ Bond Resolution.

This Bond is subject to prepayment at any time in accordance with any applicable regulations of the United States Department of Agriculture.

This Bond does not constitute an indebtedness of the District within the meaning of any constitutional or statutory provisions or limitations and is payable solely out of the revenues of the System. As provided in the \_\_\_\_\_ Bond Resolution, the District covenants that so long this Bond is outstanding, the System will be continuously owned and operated by the District as a revenue producing public undertaking within the meaning of the aforesaid Act for the security and source of payment of this Bond, and that the District will fix, and if necessary adjust, from time to time, such rates for the services and facilities of the System and will collect and account for the revenues therefrom sufficient to pay promptly the principal of and interest on this Bond, to pay the cost of operation and maintenance of the System and to provide for the depreciation thereof.

This Bond shall be registered as to principal and interest in the name of the owner hereof, after which it shall be transferable only upon presentation to the Secretary of the District as the Bond Registrar, with a written transfer duly acknowledged by the registered owner or its duly authorized attorney, which transfer shall be noted upon this Bond and upon the registration book of the District kept for that purpose.

It is hereby certified, recited and declared that all acts, conditions and things required to exist, happen and be performed precedent to and in the issuance of this Bond, do exist, have happened and have been performed in due time, form and manner as required by law, and that the face amount of this Bond, together with all other obligations of the District, does not exceed any limit prescribed by the Constitution or Statutes of the Commonwealth of Kentucky.

IN WITNESS WHEREOF said Estill County Water District No. 1, by its Board of Commissioners, has caused this Bond to be executed by its Chairman, its corporate seal to be hereunto affixed, and attested by its Secretary, on the date of this Bond, which is

ESTILL COUNTY WATER DISTRICT NO. 1

By \_\_\_\_\_  
Chairman

Attest:

\_\_\_\_\_  
Secretary

(Seal of District)

PROVISION FOR REGISTRATION

This Bond shall be registered on the registration book of the District kept for that purpose by the Secretary, as Bond Registrar, upon presentation hereof to said Secretary, who shall make notation of such registration in the registration blank, and this Bond may thereafter be transferred only upon written transfer acknowledged by the registered owner or its attorney, such transfer to be made on said book and endorsed hereon.

Date of Registration	Name of Registered Owner	Signature of Bond Registrar

ASSIGNMENT

For value received, this Bond is hereby assigned, without recourse and subject to all of its terms and conditions, unto \_\_\_\_\_, this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_

By: \_\_\_\_\_

THE ESTILL COUNTY WATER DISTRICT NO. 1 BOARD OF COMMISSIONERS ("THE BOARD") MET IN REGULAR SESSION THURSDAY DECEMBER 27, 2018 AT 9:00 A.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING PERSONS PRESENT: BLAIN CLICK, CHAIRMAN; JACK STICKNEY, SECRETARY; ROBERT "SKIP" JOHNSON, TREASURER; AUDREA MILLER, OFFICE MANAGER; DWIGHT RICHARDSON, OPERATIONAL MANAGER; AND GERALD WUETCHER, LEGAL COUNSEL.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the agenda for the December 27, 2018 regular Board of Commissioners Meeting.

The Minutes of the November 29, 2018 special board meeting were presented to the Board. ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the minutes as presented.

The Minutes of the December 7, 2018 special board meeting were presented to the Board. ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the minutes as presented.

Robert Abner with Christian, Sturgeon & Associates PLC discussed the service that his firm would provide to the District. He stated that, in addition to conducting the 2018 audit, his firm would also prepare and submit the District's annual report to the Kentucky Public Service Commission. Mr. Abner stated that he would contact the previous auditor to obtain all working documents pertaining to the District's audit as well as the its depreciation schedule and 2017-year end trial balance. The Board stressed the importance of completing the audit in a timely manner. Mr. Abner said that he could have a draft version of the audit by March 31, 2019 but could not present a final opinion until the annual contribution requirements from the Kentucky Retirement System was issued.

The board discussed the Kentucky Public Service Commission's order in Case No. 2018-00276 authorizing the District to issue a new promissory note to Citizens Guaranty Bank to consolidate its existing loans with Citizen's Guaranty Bank. In its Order, the Public Service Commission states that Estill District No 1 must file with the Commission a detailed and comprehensive plan to correct its excessive water loss on or before April 1, 2019. Commissioner Click advised Operational Manager, Dwight Richardson, that he would be responsible for developing a workable plan that would set forth real and measurable objectives for the District to present prior to the Kentucky Public Service Commission's deadline.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to adopt resolution 2018-18 authorizing the execution of loan agreement, with Citizen's Guaranty Bank, to refinance several existing loans.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to authorize Audrea Miller to speak with Rodney Davis concerning the Sam Williams lawsuit. The Board members agreed that, unless Mr. Davis recommended that the District seek discretionary review of the Kentucky Court of Appeal's Opinion in No. 2016-CA-001251-MR, the District should not pursue further appeals but contact Mr. William's counsel to discuss settlement.

ON MOTION OF JOHNSON AND SECONDED BY CLICK, all members of the Board voted to approve the 2019 budget as presented.

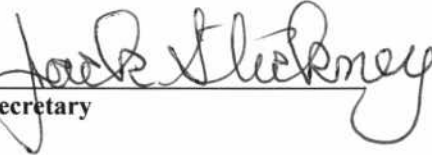
ON MOTION OF CLICK AND SECONDED BY JOHNSON, all members of the Board voted to authorize Gary Larrimore and Jim Smith, with Kentucky Rural Water Association, to conduct a budget training and management review for the District. Commissioner Stickney abstained from the vote.

The water loss report was presented to the Board, November's water loss was 40%.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to accept the financial report for the month of November 2018 and to approve the December 2018 pay warrants.

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to adjourn the meeting.

Signed  
Secretary



Attested:



*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF  
ESTILL COUNTY WATER DISTRICT NO. 1 AUTHORIZING  
EXECUTION OF LOAN AGREEMENT WITH CITIZENS  
GUARANTY BANK OF IRVINE, KENTUCKY TO REFINANCE  
SEVERAL EXISTING LOANS**

**RESOLUTION NO. 2018-18**

**WHEREAS**, Estill County Water District No. 1 has four outstanding loans with Citizens Guaranty Bank of Irvine, Kentucky;

**WHEREAS**, on January 29, 2015, Estill County Water District No. 1 issued a promissory note to Citizens Guaranty Bank (Note No. 03387) in the amount of \$100,305 at an interest rate of 3.85 percent and payable in four years;

**WHEREAS**, on January 24, 2017, Estill County Water District No. 1 issued a promissory note to Citizens Guaranty Bank (Note No. 24597) in the amount of \$110,330 at an interest rate of 4.10 percent and payable in four years;

**WHEREAS**, on October 31, 2017, Estill County Water District No. 1 issued a promissory note to Citizens Guaranty Bank (Note No. R88196) in the amount of \$110,254 at an interest rate of 3.85 percent and payable in four years;

**WHEREAS**, on February 22, 2018, Estill County Water District No. 1 issued a promissory note to Citizens Guaranty Bank (Note No. 37095) in the amount of \$18,453 at an interest rate of 4.50 percent and payable in four years;

**WHEREAS**, as of December 31, 2018, the total remaining balance of these loans will be approximately \$238,415;

**WHEREAS**, Estill County Water District No. 1 has been unable to meet the principal and interest payments on its loans to Rural Development and is currently considered delinquent in its payments on these obligations;

**WHEREAS**, Rural Development has agreed to reamortized and reschedule Estill County Water District No. 1's payment obligations and to do so at a lower rate of interest on the condition that Estill County Water District No. 1 refinance its existing loans with Citizens Guaranty Bank;

**WHEREAS**, Citizens Guaranty Bank has agreed to consolidate its existing loans to Estill County Water District No. 1, to extend the payment period to ten years, and to assess an initial interest rate of 3.0 percent subject to adjustment to the current market rate of interest on the third and seventh anniversaries of the execution of the loan consolidation agreement;

**WHEREAS**, on December 21, 2018, the Kentucky Public Service Commission by Order issued in Case No. 2018-00276 authorized Estill County Water District No. 1 enter into an agreement with Citizens Guaranty Bank to consolidate its existing loans with Citizen Guaranty Bank in accordance with the terms set forth above;



**WHEREAS**, it is in Estill County Water District No. 1's best interests to restructure its debt obligations with Citizens Guaranty Bank to permit the restructuring of its loan obligations to Rural Development and to allow Estill County Water District No. 1 adequate time to implement management and financial measures to reduce its expenses and to improve its financial condition;

**NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 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.

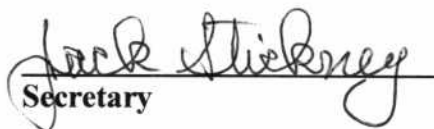
**Section 2.** The Chairman is hereby authorized and directed to execute at the earliest possible date an agreement with Citizens Guaranty Bank to consolidate its outstanding loans with Citizens Guaranty Bank under the terms set forth above and any necessary documents to implement such agreement.

**Section 3.** The Chairman, all appropriate Staff, and Estill County Water District No. 1's attorney are hereby further authorized and directed to take any and all other actions necessary to complete and facilitate the execution of such agreement consolidating Estill County Water District No. 1's existing loans with Citizens Guaranty Bank.

**ADOPTED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 at a meeting held on December 27, 2018 signed by the Chairman, and attested by the Secretary.**

  
Chairman

**ATTEST:**

  
Secretary

THE ESTILL COUNTY WATER DISTRICT NO. 1 BOARD OF COMMISSIONERS ("THE BOARD") MET IN SPECIAL SESSION WEDNESDAY, JANUARY 9, 2019 AT 1:00 PM. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT: BLAIN CLICK-CHAIRMAN, JACK STICKNEY-SECRETARY, ROBERT "SKIP" JOHNSON-TREASURER, DWIGHT RICHARDSON, OPERATIONAL MANAGER AND AUDREA MILLER-OFFICE MANAGER. GERALD WUETCHER-COUNSEL (VIA TELECONFERENCE)

From the roll call, it was determined that a quorum of the Board of Commissioners of Estill County Water District No. 1 was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the agenda for the January 9, 2019, special Board of Commissioners Meeting.

ON MOTION OF CLICK AND SECOND BY STICKNEY, all members of the Board voted to go into closed session, pursuant to KRS 61.810(1)(c), to discuss Estill District's response to the Court of Appeals decision in *Estill County Water District No.1 v. Williams*, No. 2016-CA-001251-MR (Dec. 7, 2018).

ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to reconvene the open meeting.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to authorize counsel to make and offer of settlement in the Williams case. Any final agreement will require Board approval.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to adjourn the meeting.

Signed

Secretary



Attested:



*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN REGULAR SESSION THURSDAY JANUARY 31, 2019 AT 9:00 A.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING PERSONS PRESENT: BLAIN CLICK, CHAIRMAN; JACK STICKNEY, SECRETARY; ROBERT "SKIP" JOHNSON, TREASURER; AUDREA MILLER, OFFICE MANAGER; DWIGHT RICHARDSON, OPERATIONAL MANAGER; AND GERALD WUETCHER, LEGAL COUNSEL.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the agenda for the January 31, 2019 regular Board of Commissioners Meeting.

The Minutes of the December 27, 2018 special board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the minutes as presented.

The Minutes of the January 9, 2019 special board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the minutes as presented.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to authorize the Chairman to sign the amended engineering contact, with Bell Engineering, for the purpose of drafting a Corrective Action Plan to submit to the Kentucky Public Service Commission no later than April 1, 2019 as directed in the PSC's Order of December 21, 2018 in Case No. 2018-00276.


The Board voted to authorize counsel to contact Michael Wilson with Citizens Guaranty Bank and negotiate revisions to the proposed the restructuring of the Citizens Guaranty Bank loans to adhere to the PSC's Order of December 21, 2018 in Case No. 2018-00276.


ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to accept the November financials and the December pay warrants.

ON MOTION OF CLICK AND SECONDED BY STICKNEY, all members of the Board voted to go into closed session pursuant to KRS 61.810 (1)(f) to discuss personnel matters.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted reconvene in regular session.

ON MOTION OF STICKNEY AND SECONDED BY CLICK, all members of the Board voted to adjourn the meeting.

Signed   
Secretary

Attested: 

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

THE ESTILL COUNTY WATER DISTRICT NO. 1 BOARD OF COMMISSIONERS ("THE BOARD") MET IN SPECIAL SESSION WEDNESDAY, FEBRUARY 6, 2019 AT 1:00 PM. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT: BLAIN CLICK-CHAIRMAN, JACK STICKNEY-SECRETARY, ROBERT "SKIP" JOHNSON-TREASURER, AND AUDREA MILLER-OFFICE MANAGER.

From the roll call, it was determined that a quorum of the Board of Commissioners of Estill County Water District No. 1 was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to appoint Audrea Miller as interim General Manager for the District. Ms. Miller will be the supervisor of the office & field personnel.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to give Audrea Miller a .50 raise effective immediately. Board will reevaluate Ms. Millers rate of pay at the April 2019 regular scheduled board meeting.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to adopt Resolution 2019-1 authorizing revisions to the proposed restructuring of existing loans with Citizens Guaranty Bank and an application to the public service commission for authorization to issue a promissory note containing those revisions.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to advertise for a general laborer.

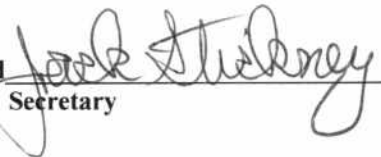
ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to adjourn the meeting.

Attested:



Signed

Secretary



*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

**A RESOLUTION OF THE BOARD OF COMMISSIONERS OF  
ESTILL COUNTY WATER DISTRICT NO. 1 AUTHORIZING  
REVISIONS TO THE PROPOSED RESTRUCTURING OF EXISTING  
LOANS WITH CITIZENS GUARANTY BANK OF IRVINE,  
KENTUCKY AND AN APPLICATION TO THE PUBLIC SERVICE  
COMMISSION FOR AUTHORIZATION TO ISSUE A PROMISSORY  
NOTE CONTAINING THOSE REVISIONS**

**RESOLUTION NO. 2019-1**

**WHEREAS**, Estill County Water District No. 1 (“Estill District”) has several outstanding promissory notes issued to Citizens Guaranty Bank of Irvine, Kentucky (“Citizens Guaranty Bank”);

**WHEREAS**, in August 2018 Estill District reached an agreement with Citizens Guaranty Bank to consolidate the outstanding amounts owed on the promissory notes which Citizens Guaranty Bank holds into one promissory note payable over ten years;

**WHEREAS**, on December 4, 2018, Estill District applied to the Public Service Commission for authorization to issue such promissory note to Citizens Guaranty Bank;

**WHEREAS**, the Public Service Commission docketed Estill District’s application as Case No. 2018-00276;

**WHEREAS**, on December 21, 2018, the Public Service Commission issued an order in Case No. 2018-00276 in which it authorized Estill District to issue a promissory note to Citizens Guaranty Bank under the terms set forth in Estill District’s application;

**WHEREAS**, Citizens Guaranty Bank has since advised Estill District that it cannot enter a loan agreement with Estill District under the terms set forth in Estill District’s application but has offered to enter a loan agreement under comparable terms;

**WHEREAS**, under Citizens Guaranty Bank’s alternative proposal, the remaining amounts owed on outstanding Estill District promissory notes held by Citizens Guaranty Bank would be consolidated into one note payable over ten years at an initial interest rate of three percent per annum subject to the following conditions: (1) the note’s interest rate would be adjusted to the current federal prime interest rate minus 2.5 percent every three years, (2) the adjusted interest rate could not decrease or increase more than two percent over the existing interest rate; (3) at no time could the note’s interest rate be less than three percent or greater than eight percent; and (4) no penalty would be imposed if Estill District paid the note in advance of note’s payment schedule;

**WHEREAS**, the terms of Citizens Guaranty Bank’s alternative proposal are comparable to those in its original proposal;

**WHEREAS**, KRS 278.300 requires Estill District to obtain the authorization of the Public Service Commission prior to issuing to Citizens Guaranty Bank any promissory note whose terms differ from those set forth in Estill District’s original application;

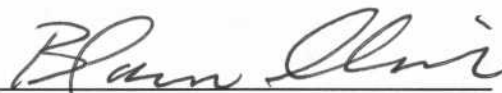
**NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 AS FOLLOWS:**

**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.** The Chairman is hereby authorized and directed to execute and file with the Public Service Commission at the earliest possible date an application for authorization to issue a promissory note to Citizens Guaranty Bank containing the terms set forth in Citizens Guaranty Bank's alternative proposal, or an appropriate motion requesting that the Order of December 21, 2018 in Case No. 2018-00276 be amended to permit the issuance of a promissory note to Citizens Guaranty Bank under such terms.

**Section 3.** Upon the Public Service Commission's issuance of authorization to Estill District to issue a promissory note to Citizens Guaranty Bank containing the terms set forth in Citizens Guaranty Bank's alternative proposal, the Chairman is authorized to execute on Estill District's behalf such a promissory note.

**ADOPTED BY THE BOARD OF COMMISSIONERS OF ESTILL COUNTY WATER DISTRICT NO. 1 at a meeting held on February 6, 2019 signed by the Chairman, and attested by the Secretary.**

  
\_\_\_\_\_  
Chairman

ATTEST:

  
\_\_\_\_\_  
Secretary

THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS (THE COMMISSION) MET IN REGULAR SESSION THURSDAY FEBRUARY 22, 2018 AT 3:00 P.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING OFFICERS AND MEMBERS PRESENT GREG WRIGHT, CHAIRMAN, JERRY ARNOLD, SECRETARY, WILLIAM BEARD, TREASURER, AUDREA MILLER, OFFICE MANAGER AND DWIGHT RICHARDSON, OPERATIONAL MANAGER

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF BEARD AND SECONDED BY ARNOLD and all members of the Board voting in the affirmative, that the agenda for, February 22, 2018 regular Board of Commissioners Meeting be approved.

The Minutes from the January 25, 2018 regular board meeting were presented to the Board with no corrections being found necessary. ON MOTION OF ARNOLD AND SECONDED BY BEARD and all members of the Board voting in the affirmative, that the minutes be approved as presented.

Shannon Chaney, with Citizens Guaranty Bank, was present for the board to sign the paperwork for the two-year loan for the utility truck.

Attorney, Gerald Wuetcher, was present to talk to the board about a settlement agreement with the Kentucky Public Service Commission. The board authorized Mr. Wuetcher to draft the agreements on behalf of the District as well as themselves. The agreement will state the following:

1. Within 90 days of the issuance of an order from the Public Service Commission accepting this Offer of Settlement, each of the Respondent Commissioners will resign from Estill District's Board of Commissioners.
2. The Respondent Commissioners will not accept any future appointment to Estill District's Board of Commissioners.
3. No fine or penalty shall be assessed against Estill District for the alleged violations of KRS 278.300 set forth in the Public Service Commission's Order of January 11, 2018.
4. No fine or penalty shall be assessed against any of the Respondent Commissioners for his conduct related to the alleged violations of KRS 278.300 set forth in the Public Service Commission's Order of January 11, 2018, including any allegation that the Respondent Commissioners collectively or individually aided or abetted any willful violation of KRS 278.300 by Estill District.
5. If this Offer of Settlement is accepted in its entirety, Respondents individually and jointly waive their right to a hearing in this matter and will not petition the Public Service Commission for rehearing or bring an action for review of any order accepting this Offer of Settlement.
6. Should the Public Service Commission issue an Order accepting this Offer of Settlement in its entirety and any Respondent fail to comply with the terms of this Offer of Settlement, such Respondent's failure shall be deemed a failure to comply with a lawful order of the Public Service Commission and such Respondent may be subject to the penalties of KRS 278.990(1).

In making this Offer of Settlement, the Respondents do not admit or acknowledge that Estill District has willfully violated KRS 278.300 or that the Respondent Commissioners aided or abetted any willful violation of KRS 278.300. Respondents incorporate by reference into this Offer of Settlement the statements contained in their respective responses to the Public Service Commission's Order of January 11, 2018.

The Public Service Commission should find that this Offer of Settlement is reasonable and in the public interest and should accept it without delay. It is in the best interests of Estill District and its ratepayers that this matter be resolved quickly and without incurring further expense. An expedited resolution of this matter will enable Estill District and its employees to devote their full and undivided attention to solving Estill District's serious operational and financial problems and to improving the quality and reliability of service to the Estill District's customers.

ON MOTION OF ARNOLD AND SECONDED BY BEARD and all members of the Board Page 58 of 59  
voting in the affirmative, that the meeting be adjourned.

Signed Joseph Arnold  
Secretary

Attested: Ray W. [Signature]

*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*



THE ESTILL COUNTY WATER DISTRICT BOARD OF COMMISSIONERS ("THE BOARD") MET IN REGULAR SESSION THURSDAY FEBRUARY 28, 2019 AT 9:00 A.M. IN THE CONFERENCE ROOM AT ITS OFFICES LOCATED AT 76 CEDAR GROVE ROAD, IRVINE, KENTUCKY, WITH THE FOLLOWING PERSONS PRESENT: BLAIN CLICK, CHAIRMAN; JACK STICKNEY, SECRETARY; ROBERT "SKIP" JOHNSON, TREASURER; AND AUDREA MILLER, GENERAL MANAGER; GERALD WUETCHER, LEGAL COUNSEL WAS PRESENT VIA TELECONFERENCE.

From the roll call, it was determined that a quorum of the Board of Commissioners of the Estill County Water District was present. The meeting was then opened for the transaction of business, at which time the following proceedings were had and entered for record:

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to approve the agenda for the February 28, 2019 regular Board of Commissioners Meeting.

The Minutes of the December 27, 2018 special board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the minutes as presented.

The Minutes of the February 6, 2019 special board meeting were presented to the Board. ON MOTION OF JOHNSON AND SECONDED BY STICKNEY, all members of the Board voted to approve the minutes as presented.

ON MOTION OF STICKNEY AND SECONDED BY JOHNSON, all members of the Board voted to authorize Audrea Miller to obtain funding, through Citizen's Guaranty Bank, to purchase two (2) new full-size service trucks through the state procurement contract. The total purchase shall not exceed \$60,000.00. Funding shall be in the form of a note payable for a period not to exceed two (2) years, but subject to being renewed for an additional two (2) year term.

ON MOTION OF CLICK AND SECONDED BY STICKNEY, all members of the Board voted to adjourn the meeting.

Signed

Secretary

Attested:





*\*Meeting agenda and sign in sheets are filed in the Districts office and can be made available for review upon request.*

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 29

Responding Witness: Audrea Miller

- Q-29. For the period from January 1, 2015, to the date of the issuance of this Order, discuss whether the water utility's board of commissioners has placed any deadlines or target dates on the utility for achieving a reduction in the amount of water loss.**
- A-29. Estill County Water District No. 1's Board of Commissioners has not yet established a water loss reduction goal or a target date to achieve that goal.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 30

Responding Witness: Audrea Miller

**Q-30. Provide a list of the utility 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-30. The most critical projects, in order of priority, are:

- A. Replacement of all customer meters;
- B. Installation of zonal master meters with telemetry expansion to all metering zones;
- C. Installation of electronic control valves at the New River Pump Station;
- D. Refurbishment or replacement of pump stations; and,
- E. Development of a hydraulic model of water distribution system.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 31

Responding Witness: Audrea Miller

**Q-31. Provide the total salary of the general manager/superintendent of the water utility for calendar years 2017 and 2018.**

A-31. In 2017 and 2018, the position of general manager or superintendent did not exist. An operations manager was responsible for the operation of Estill County Water District No. 1's distribution system. His salary is reflected in the table below.

<b>Year</b>	<b>Annual Salary</b>
2017	\$44,818.70
2018	\$45,949.21

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 32

Responding Witness: Audrea Miller

**Q-32. Provide a copy of the most recent signed employment contract between the general manager/superintendent and the utility.**

A-32. No employment contract exists.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 33

Responding Witness: Audrea Miller

**Q-33. State the average age, with the high and low ages, of the utility's distribution mains.**

A-33. Estill County Water District No. 1's records do not permit an estimate of the average age of the utility's distribution mains. The oldest mains were constructed in 1964 (55 years) and the most recent mains were constructed in 2008 (11 years).

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 34

Responding Witness: Audrea Miller

**Q-34. "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 the utility's service connections.**

A-34. See Response to Question 33.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 35

Responding Witness: Audrea Miller

**Q-35. Has the utility mapped the entire distribution area for service connections to include mapping of its system, and identifying parts of its system with repeated breaks?**

A-35. Yes.



**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 36

Responding Witness: Audrea Miller

**Q-36. Provide a copy of the utility's policy for dealing with apparent theft of water.**

A-36. Estill County Water District No. 1 does not currently have a written policy regarding theft of water service. Its current practice is to request that the party receiving unauthorized service compensate the water district for any damage to the water district's equipment, the cost of service visits to the location, and the unauthorized water service. (Estill County Water District No. 1 will estimate the monthly bills during the time unauthorized service was received.) If the requested amount is not paid, Estill County Water District No. 1 removes the service connection to the location.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 37

Responding Witness: Audrea Miller

**Q-37. Provide documentation of any request by the utility from January 1, 2017, to the date of the issuance of this Order to the county attorney or commonwealth attorney's office for the prosecution of any person for the theft of water.**

**a. State whether the utility provided information related to the request for prosecution to the county attorney or commonwealth attorney's office for this time frame.**

**b. If the response to Item 37a. above is confirmed, state to which office the utility provided the information, whether any action was taken on behalf of the utility to prosecute any person for theft of water, and provide copies of the documentation and correspondence related to the prosecution.**

A-37. a. No requests were made during this time period.

b. Not applicable.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 38

Responding Witness: Audrea Miller

**Q-38. Provide the utility's policy for determining whether a leak adjustment to a customer's account is warranted and identify the person(s) that approve leak adjustments.**

A-38. Estill County Water District No. 1's current practice is to require a customer seeking a leak adjustment to provide evidence that a repair to the customer's facilities has been made. Estill County Water District No. 1 has been reviewing its existing tariff and intends to file a revised tariff with the Public Service Commission on or about May 1. The revised tariff will set forth more stringent rules of eligibility for obtaining an adjustment. A copy of the portion of the revised tariff pertaining to leak adjustments is attached to this response.

The office manager is currently authorized to approve requests for a leak adjustment.

Estill County Water District No. 1  
(Name of Utility)

AA. Leak Adjustments. A Customer may make a request for a bill adjustment in the event of a hidden underground leak with the following conditions:

1. A hidden underground leak is defined as a leak in the customer service line between the meter and the premises.
2. Upon written request, leak adjustments may be granted to residential and commercial customers. The adjustment will be made prior to the payment of the then current water bill. Leak adjustments only apply between the meter and the residence in which the line has actually been repaired.
3. The customer must provide a plumber's statement or list of materials showing that the leak has been repaired.
4. After verification of repairs by utility, the bill will be adjusted by comparing usage during the leak billing period to the average usage for the past 6 billing periods.
5. During the lifetime of the customer's water service line, only two leak adjustments will be permitted. Each of these adjustments may cover a maximum of two billing periods. Before a third adjustment can be considered, the entire service line from the meter box to the house or structure must be replaced and evidence of this fact submitted to the utility before the third adjustment will be given. If plastic pipe is used for any repair underground water service lines, it must be no less than 200 psi, CTS pipe. **THE USE OF RADIATOR CLAMPS, KING NIPPLES, OR THE EQUIVALENT CANNOT BE ACCEPTED.** Adjustments are figured by the difference between an average water bill and the bill that reflects the leak. The adjustment is based on the utility assuming 50% of the loss and the customer is responsible for the other 50% of the loss plus the average bill. Even though an adjustment is to be considered, the customer is still responsible for the bill and should they be disconnected for non-payment, the entire amount plus the current reconnect fee must be paid before service will be restored and any adjustment made, will be credited to the account.

AB. Ownership of Mains, Services and Appurtenances.

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DATE OF ISSUE \_\_\_\_\_  
Month / Date / Year

DATE EFFECTIVE \_\_\_\_\_  
Month / Date / Year

ISSUED BY \_\_\_\_\_  
(Signature of Officer)

TITLE \_\_\_\_\_

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION  
IN CASE NO. \_\_\_\_\_ DATED \_\_\_\_\_

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 39

Responding Witness: Audrea Miller

**Q-39. State whether the utility's tariff permits the utility to adjust late charges when making a leak adjustment.**

A-39. No. Estill County Water District No. 1's tariff requires a customer to make full payment of outstanding bill by the due date. If a customer requests a leak adjustment and pays the adjusted amount prior to the due date, no late charged is assessed. If no request for an adjustment is made prior to the due date and full payment of the billed amount is not made, a late charge is assessed.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 40

Responding Witness: Audrea Miller

- Q-40. Provide a copy of the utility's most recent Leak Adjustment Worksheet that was used by the utility and explain what software is being used by the utility to generate the Leak Adjustment Worksheet. If the utility is using Microsoft Excel to generate the Leak Adjustment Worksheet, then provide a copy of the most recent Leak Adjustment Worksheet used by the utility in electronic format with all rows unprotected and all formulas intact.**
- A-40. Estill County Water District No. 1 does not use a worksheet to calculate the amount of the adjustment.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 41

Responding Witness: Audrea Miller

**Q-41. State whether the utility has conducted a comprehensive water audit, and if so, provide a copy of the most recent water audit.**

A-41. Estill County Water District No. 1 has not conducted a comprehensive water audit.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 42

Responding Witness: Audrea Miller

- Q-42. Provide a copy of the utility's procedure for monitoring and documenting withdrawals from the utility'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 the utility's system from January 1, 2018, to the date of the issuance of this Order, 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 Order, state the actions the utility implemented to correct the failure.**
  - c. Provide the date on which the utility 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 the utility 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-42. Estill County Water District No. 1's tariff is silent on fire department withdrawals. The Water District intends to propose revisions to its tariff to address this issue. See Attachment 1 to this Response. Estill County Water District No. 1 officials have contacted local fire departments, advised each of the need to report its withdrawal, and requested each to provide usage information.**
- a. No fire department has filed an estimate during this period.
  - b. Estill County Water District No. 1 has taken no action as of this date against non-reporting fire departments.
  - c. Estill County Water District No. 1's current tariff does not provide for the assessment of a penalty.
  - d. See Attachment 2 to this Response.



e. Fire protection water usage for the fourth quarter of 2018 is:

October – 38,545  
November – 39,659  
December – 33,875

These usage amounts are based upon the assumption that fire department usage is equal to 0.3 percent of total sales. Public Service Commission Staff and Kentucky Rural Water Association provided assumption.

Estill County Water District No. 1  
(Name of Utility)

AE. Fire Departments.

Any city, urban-county, charter county, fire protection district, or volunteer fire protection district may withdraw water from the utility's water distribution system for the purposes of fighting fires or training firefighters at no charge on the condition that it maintains estimates of the amount of water used for fire protection and training during the calendar month and reports the amount of this water usage to the utility no later than the 5<sup>th</sup> day of the following calendar month.

Any city, county, urban-county, charter county, fire protection district, or volunteer fire protection district that withdraws water from the utility's water distribution system for fire protection or training purposes and fails to submit the required report on water usage in a timely manner shall be assessed the cost of the water.

A non-reporting user's usage shall be presumed to be 0.3 percent of the utility's total water sales for the calendar month. A non-reporting user may present evidence of its actual usage to rebut the presumed usage. The utility shall consider this evidence and may adjust the presumed usage amount accordingly.

The non-reporting user shall be billed for the usage at the lowest usage block rate regardless of customer classification that the utility charges.

A non-reporting user shall also be assessed a penalty of **\$10.00** for each failure to submit a report in a timely manner.

AF. Fire Hydrants

1. The location, installation, and the responsibility for maintenance of fire hydrants, public and private fire protection facilities, connecting mains, and their ownership may be subject to negotiation between the utility and the applicant/customer. Fire hydrants and public and private fire protection facilities shall be installed as required by the utility and if owned by the utility shall be subject to any conditions the Public Service Commission may impose, based upon the compensation received for this service.

AG. Water Main Extensions.

DATE OF ISSUE \_\_\_\_\_  
Month / Date / Year

DATE EFFECTIVE \_\_\_\_\_  
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**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 43

Responding Witness: Audrea Miller

- Q-43. Explain how the utility accounts for flushing when determining water loss for its system.**
- A-43. At the time of the flushing, the operator performing the flushing estimates the amount of water use and records it on the monthly flushing log.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 44

Responding Witness: Audrea Miller

**Q-44. Provide the type of flushing equipment that the utility uses.**

A-44. Estill County Water District does not use flushing equipment.

**ESTILL COUNTY WATER DISTRICT NO. 1**

**Response to Commission's Order of March 12, 2019 – Appendix C  
Case No. 2019-00041**

Question No. 45

Responding Witness: Audrea Miller

**Q-45. Provide the utility's system flushing records, by month, from January 1, 2018, to the date of the issuance of this Order, and describe the formula relied upon, identifying all variables, and all assumptions and workpapers utilized to produce this information.**

A-45. See Attachment to this Response.







# Monthly Hydrant Flushing Report (Flushing for other than DBP maintenance)

Estill County Water Dist. (name of Water System)

Month: April  
Year: 2018

Kv0330123 (PWSID)

unit conversion factor: 29.83  
coefficient value: 0.95

Formula:  $GPM = 29.83 \text{ cd}^2 \sqrt{p}$

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pitot Pressure	GPM	Gallons Flowed	Estimated Flow if Pitot not used
3/21/2018	Redlick Rd.	flushing	20.00	2.5	30	970	19,402	
4/2/2018	Horns River	flushing	20.00	0.8	75	138	2,761	
4/6/2018	Barnes Mnt.Rd.	flushing	20.00	0.8	100	181	3,627	
4/12/2018	Coral Ave.	flushing	15.00	0.8	80	162	2,433	
4/13/2018	Spout Springs	flushing	30.00	0.8	100	181	5,441	
4/13/2018	Spout Springs	flushing	25.00	4.0	30	2483	62,087	

Total Gallons for Month: 95,751











