

Appendix # C

Case #2019-00041

Dated: March 12, 2019

8. Copies provided for preventive maintenance program for the plant, pump and storage facilities.

James Blanton

Big Sandy Water District Tank Inspections

Location: Quarry Branch

Tank Type: Welded Metal

Size gallons: 75,000

Date Constructed: 1995

Date of last cleaning: 11/2014

Does ground slope away from tank?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Is ground soggy around tank?	Yes	<input checked="" type="radio"/> No
Is concrete foundation cracked?	Yes	<input checked="" type="radio"/> No
Is the concrete foundation level?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Is there a gap between riser base and concrete?	Yes	<input checked="" type="radio"/> No
Condition of anchor bolts OK?	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Tank		
Any disfiguration in tank walls or roof?	Yes	<input checked="" type="radio"/> No
Are any weld seams concave?	Yes	<input checked="" type="radio"/> No
Any water leaking from tank?	Yes	<input checked="" type="radio"/> No
Is there any metal loss by pitting?	Yes	<input checked="" type="radio"/> No
Condition of paint	<input checked="" type="radio"/> Good	Fair <input type="radio"/> Poor

Amount of surface showing rust?	<u>A few spots</u>	
Any ponding of water on roof?	Yes	<input checked="" type="radio"/> No

Is there a safety climbing device or cage?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Is there a target on the tank?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Does the target work properly?	Yes	<input checked="" type="radio"/> No
Does the utility have a climbing harness?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
How often does the utility climb tank?	Daily	Weekly <input type="radio"/> Monthly

Other Only when we have the manpower to do so.

Condition of the overflow	<input checked="" type="radio"/> Good	Fair	Poor
Does the overflow have a screen or flapper?	Screen	<input checked="" type="radio"/> Flapper	Neither
Rip Rap to prevent erosion of overflow?		<input checked="" type="radio"/> Yes	No

Comments: TANK is in Good shape.

Sign Jim Blanton

Date 1/9/2019



Big Sandy Pump Station Inspections

Deephole Rd

Type of Pumps

Centrifugal

Turbine

Number of pumps

1

Size of motors hp

7 1/2

Rating of pump gpm

32

Year Pump Station was constructed:

2000

Are there any problems that are visible?

Yes

No

Explain

Are there any coupling alignment problems?

Yes

No

Does coupling require grease?

Yes

No

Have bearings been greased?

Yes

No

Date

10/11/2018

Is there sufficient packing?

Yes

No

Are all hold-down bolts on pumps tightened?

Yes

No

Is there an excessive noise from the pump?

Yes

No

Is there any repainting needed?

Yes

No

Are there any signs of corrosion?

Yes

No

Explain

Small amount at base of Pump

Will one pump meet daily requirements?

Yes

No

Do both pumps need to operate together?

Yes

No

Is there a written inspection record of pump stations?

Yes

No

How often?

Just inspection forms

Condition of Building:

Sign

Jim Blanton

Date

10/11/2018

Appendix # C

Case #2019-00041

Dated: March 12, 2019

9. We do not have enough employees to be able to assign to certain duties. All employees repair leaks, read meters and detect and fix leaks.

James Blanton

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

- 10. Zone meters are checked every possible day that we can read them. Also the telemetry is checked daily. Some days we have to read customer meters and don't have a handheld available to read the zone meters. Also, if we have a major leak, we may not have the manpower.**

**James Blanton**

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

11. Total number of completed water line leak repairs from Sept 1, 2018 to Feb 28, 2018 is 151 see attached. We are just now doing the February Water Loss the reading of meters and billing process for this cycle was just posted. March will not be finished until May.

**Bobbi Burton**

### Water Line Leak Repairs

	Main Lines	Service Lines	Meter Bottoms/Regulators/Valves	Pumphouse
<b>2018</b>				
September	9	10	2	
October	7	8	2	1
November	5	9	5	
December	8	12	6	
<b>2019</b>				
January	8	10	6	
February	19	10	14	
<b>Totals</b>	<b>56</b>	<b>59</b>	<b>35</b>	<b>1</b>

# Break out

## Leaks and Flushings Sep-18

KACR Leaks			KACR Flushings	
	9/6/2018	Glancy Frk meter bottom 7gpm	60,480	9/4/2018 Hultz Rd 2,000
1 main	9/9/2018	Durbin Rd - Creek bank broke off took 4" line	75,000	9/26/2018 Pigeon Roost 20 mins. 2000
2 main	9/11/2018	Seedtick - 80' of 3" line creek bank 100gpm	65,000	
		Blaine Creek - water leak	same	TOTAL 4000
1 ser.	9/13/2018	Bolts Fork - 20gpm	374,400	
2 ser.	9/14/2018	Mill Branch - leak 1" service line 5gpm	100,800	
3 ser	8/31-9/14	Pine Ct - leak 10gpm (15 days)	216,000	
4 ser	9/15/2018	Mill Branch - leak 15gpm	151,200	
5 ser	7/3-9/26	Burchett Br water leak 7-8gpm	299,520	
6 ser	8/15-9/27	Hwy 60 water leak 5gpm	108,000	Fire Departments
7 ser	9/18-9/27	N St Hwy 207 water leak 10gpm	259,200	Sept Big Sandy VFD 3,500
8 ser	9/21/2018	Hwy 707 3/4" line	151,200	East Fork VFD 0
	9/26/2018	E US Hwy 60 - meter bottom leaking 3gpm	112,320	Norton Br VFD 500
3 main	9/24/2018	Long Br - 60' 4" creek bank broke off	50,000	
	9/24-10/1	Rt 854 - couldn't find to turn off.	12,100	4000
9 ser	9/24/2018	St Hwy 773 10gpm	345,600	
4 main	9/28/2018	Diamond Links coupling by 3" 90	21,600	
ser		Blaine Crk - 3/4" service line 10gpm	100,800	
	9/28/2018	Needmore - reg leaking 3gpm	120,960	
			2,624,180	
Louisa Leaks			Louisa Flushings	
5 main	9/7/2018	See Br 4" line split	75,000	9/18/2018 Chaffin Hwy 2565 2,500
6 main	9/11/2018	Raven Rock - 3" line split under road 20gpm	316,800	
1 main		Raven Rock - 3" coupling 10gpm	75,000	
4 main	9/13/2018	Cedgap - County hit 3"	75,000	
10 ser	9/5-9/21	Cedgap 3/4" leak 5gpm	151,200	
9 main	9/27/2018	Beasley Br - water leak 40gpm	50,000	
			743,000	Fire Departments
				Sept Cherryville VFD No Report
				Lowmansville VFD 0

9 main  
10 service  
2 meter/reg.

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Leaks & Flushings  
Oct-18

KARC Leaks

	10/1/2018	Jerry Riffe small leak	
ser	10/6/2018	Highway 207 - service line leak 20gpm	172,800
ser	10/1-10/9	S St Hwy 773 spline 3/4" 10gpm (14 days)	200,000
ser	10/2-10/12	Rt 854 3/4" line split (corp stop) 15gpm	216,000
main	10/13/2018	Bear Crk/Blue Ribbon - leak 8" bell leaking	200,000
ser	10/1-10/12	Hwy 707 3/4" line split 10gpm (7 days)	100,000
ser	10/18/2018	Glancy Frk small leak in meter	51,840
main	10/19/2018	Glancy Fork - 3" line washed out	160,000
main	10/24/2018	Long Branch - bubbling up out of blacktop	50,000
main	10/31/2018	Glancy Fork - 3" line replaced line loss	5,000
ser	10/3-10/31	Wilson Crk 3/4" line 4gpm	161,280
ser	10/24-10/31	St Rt 854 leak 7gpm	70,560
			1,327,480

KARC Flushings

10/2/2018	James Holt	Rt 3 20 mins.	2,500
10/15/2018	Smith	Burchett Br 30 mins.	3,000
10/25/2018	Smith	Hultz Rd	1,500

Fire Departments

October	Big Sandy VFD	7,000
	East Fork VFD	no report
	Norton Br VFD	0
	<b>TOTAL</b>	<b>7,000</b>

Louisa Leaks

main	10/5/2018	Highway 581 - creek crossing	200,000
		Hay Br - leak at meter (drip)	5,000
ser	10/2-10/9	S Side Loop - 3/4" line 10gpm (5 days)	70,000
	10/9/2018	S Highway 3 - meter bottom	25,000
		Cedgap - pump leaking	45,000
main	10/25/2018	Morgans Crk 3" creek crossing replaced	20,000
main		pouring out where we replaced	3,000

Louisa Flushings

10/11/2018	Keens Boyd	Chestnut	1,000
10/12/2018	John Smith	Nats Crk	2,000
10/15/2018	Valero	Holt St 30mins@100gpm	3,000

Fire Departments

October	Cherryville VFD	no report
	Lowmansville VFD	5,250
	<b>TOTAL</b>	<b>5,250</b>

368,000

17 main  
8 serv.

1 pump





Leaks and Flushings  
Nov-18

KRAC Leaks

ser 1	11/1-11/7	Wilson Creek 3/4" line 4gpm	40,320
ser 2	11/1-11/8	St Rt 854 approx 7gpm	80,640
ser 3	11/5/2018	Buchanan Chapel 3/4" leak 10gpm	72,000
ser 4		St Rt 3 nut leaking 2gpm	<del>15,000</del> 14,400
ser 5	11/7/2018	Mill Br - 3/4" leak 10gpm	72,000
main 1	11/11/2018	Blue Ribbon - 6" leak	200,000
main 2	11/14/2018	Lynnwood Dr - 3" line 75gpm	108,000
ser 6		Rt 60 pigtail leaking	15,000
main 3	11/19/2018	Leak on Rt 60 - 6" line (2 days)	500,000
main 4	11/19/2018	Dave Ln leak 2" line 20gpm	547,200
	11/20/2018	St Hwy 773 - valve leaking	10,000
ser 7	11/21/2018	Sycamore Ln 3/4" line 15gpm	21,600
main	11/22-11/23	Hwy 828 & Rt 1 3" line & bell 10gpm	43,200
ser 8	11/23/2018	Rt 3 3/4" line leak	150,000
main 5	11/29/2018	Long Branch - 2" valve leaking	25,000
ser 9	11/8-11/30	St Rt 854 leak 22 days	253,440

2,152,800

KRAC Flushings

11/6/2018	Cherrywood Dr	3,000
11/14/2018	Tennis Ct	5,000
11/14/2018	White Oak Dr	2,500
11/15/2018	Goldenrod	2,500
11/19/2018	Joel Stevens - Spankem Branch	4,000
	Bill Stevens - Highway 207 Jim ts	8,000
11/26/2018	Jobs - Highway 828 Bill & Tom ts	3,000
	US Hwy 60 10x100gpm	1,000
		29,000

Fire Departments

Nov-18	Big Sandy VFD	0
	East Fork VFD	0
	Norton Br VFD	

Dead Meters

Nov-18	Eric Borders	4,000
	Floyd Badgett	4,300
	Matt Synder	2,900
	Majone Bush	2,200
	Dreama Greer	4,200
	Ernest Watkins	900

Total 18,500

Louisa Leaks

11/1/2018	Hwy 23 - s-pipe leaking 5gpm	216,000
11/2/2018	Greenbriar Rd - meter bottom 1gpm	8,640
11/2-11/7	Hwy 644 - valve leaking (dripping)	1,000
11/13/2018	Pt. Section - leak Randy's ts	1,000
		226,640

Louisa Flushings

Fire Departments

Nov-18	Cherryville VFD	no report
	Lowmansville VFD	0

5 main  
9 serv.  
5 s pipe meter

11111

11111

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1 1 111 11111

Dec-18  
Leaks and Flushings

**KARC Leaks**

8/28-12/11	Callahan Rd - valve leaking	100,000
ser 1	12/5/2018 Rabbit Ln - 1" line leaking 20gpm 3 hrs	86,400
ser 2	12/6/2018 - St Rt 854 leak at meter	20,000
ser 3	12/6/2018 Rt 854 3/4" line 7gpm	50,000
main	12/6/2018 Left Frk Mrgs Crk - 3" wrap leaking in creek	20,000
ser 4	12/7/2018 Leak in Rush (Les)	20,000
ser 5	12/11/2018 US Hwy 60 water leak 8gp0m	750,000
ser 6	12/13/2018 Long Br - water leak	20,000
ser 7	12/17-12/18 Spankem Br - 3/4" line 20gpm	60,000
main 8	12/21/2018 Rush 207 South - 3" line washed out	100,000
main 9	12/19/2018 Blaine Crk - 4" line hit by contractor	100,000
ser 10	Panther Ln leak	20,000
main 11	12/20/2018 Blaine Crk - 4" line big slip 50gpm	50,000
main 12	2 more leaks can't get to - valved off	100,000
main 13	12/20/2018 Long Branch	100,000
serv 14	12/20-12/26 Runyan Rd - 3/4" service line 7gpm	15,600
ser 15	12/27/2018 Silver Run 3/4" line 40gpm	100,000
ser 16	12/31/2019 Friendship Rd - s-pipe leaking 56rpm	15,000
	<b>Total</b>	<b>1,726,400</b>

**Louisa Leaks**

ser 1	12/3-12/5 Hylton Rd - leak 15gpm (4-days)	80,000
ser 2	12/7/2018 Hwy 2037 - valve leaking	3,100
main 3	12/10/2018 Cedgap 3" line split	50,000
ser 4	12/7/2018 Torchlight - leak 15gpm	15,000
ser 5	12/13/2018 Highway 581 - meter bottom (Rusty)	106rpm 20,000
ser 6	9/28-12/13 Hwy 644 valve leaking outside	10,000
ser 7	Hwy 581 valve leaking	10,000
main 8	12/30/2018 Hewlett Br - 6" line split 20' joint (Wells Group)	100,000
	<b>Total</b>	<b>288,100</b>

**KARC Flushings**

12/3/2018	Hwy 828 70x75mins	5,250
12/12/2018	Hwy 828 30minsx3gpm	90
12/19/2018	15mins. <i>les</i>	450
12/31/2018	Silver Run	1,000
	<b>Total</b>	<b>6,790</b>

**Fire Department**

Dec-18 Big Sandy VFD	0
East Fork VFD	0
Norton Br VFD	0
<b>Total</b>	<b>0</b>

**Dead Meters**

Sean Harpold	3,500
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**Louisa Flushings**

12/19/2018	Thompson Frk Rd	2,000
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**Fire Departments**

Dec-18 Cherryville VFD	no report
Lowmansville VFD	7000
<b>Total</b>	<b>7,000</b>

**Dead Meters**

Charles Hill	5,200
Jerry Wells	6,700
Tom Stone	200
<b>Total</b>	<b>12,100</b>

8 main  
12 serv.  
6 mms

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II

III

III

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**Leaks and Flushings**  
Jan-19

**KRAC Leaks**

**KRAC Flushings**

main	1/2/2019	Spankem Br/Virginia Dr - 3/4" line pulled apart 25gpm	10,000	1/25/2019	[redacted] Raquel Br	1,000
	1/4/2019	[redacted] Fighting Frk meter bottom	5,000	1/29/2019	[redacted] E US Hwy 60	3,000
ser	1/7/2019	[redacted] Wilber Rd - 1" service line (20 GPM)	15,000			
ser	12/18-1/15	[redacted] E US Hwy 60 - service line 10gpm 28 days	400,000			
main	1/10/2018	[redacted] Fighting Frk 3" line slip	120,000			
	1/10-1/14	[redacted] Trace Rd - water around meter	0			
ser	1/16/2019	[redacted] Spankem Br - 3/4" line broke	10,000			
		Blaine Creek - check valve leaking	50,000			
ser	1/18/2019	[redacted] Zeldia leak 25gpm	110,000			
	1/22/2019	[redacted] Cedar Pt regulator & S-pipe	10,000			
ser		[redacted] Nursery Dr - 3/4" service line 6gpm	160,000			
	1/25/2019	[redacted] Bush Ln meter bottom	10,000			
main	1/25/2019	Queen Ln - 2" line leak 2" bell pulled apart 30gpm	120,000			
ser	1/27/2019	Pinehurst - leak (weekend)	420,000			
main	1/28/2019	Cedar Dr - 3"x2" reducer leaking	100,000			
ser	1/29/2019	Wilson Creek - leak (Rusty's TS)	10,000			
main		Elijah Br - 3" bell pulled apart 25gpm	150,000			
ser	1/31/2019	[redacted] Trace Rd - 3/4" line 5gpm	50,000			
		<b>Total</b>	<b>1,800,000</b>			

**Fire Departments**

Jan	Big Sandy VFD	0
	East Fork VFD	0
	Norton Br VFD	1,000

**Dead Meters**

Jan	[redacted]	5,900
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**Louisa Leaks**

**Louisa Flushings**

main	1/2/2019	Elk Ln - leak 2" line busted in creek	100,000			
main	1/3/2019	Elk Ln - Co. Road Dept hit 2" line	50,000			
ser	1/16/2019	[redacted] Crystal Ln 1" line 25gpm	50,000			
main		Elk Ln - repaired 2" in creek	50,000			
	1/31/2019	[redacted] Hwy 2033 meter bottom & reg 10gpm	15,000			
	1/31/2019	[redacted] Bailey Ln - meter bottom 10-12gpm	30,000			
ser	10	State Rt 3 & Stanly Ln - 1" line 30gpm	50,000			
		<b>Total</b>	<b>295,000</b>			

**Fire Departments**

Jan	Cherryville VFD	no report
	Lowmansville VFD	6,000

Main 8  
Serv. 10  
Reg/Meter 6

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**Feb-19  
Leaks & Flushing**

KRAC Leaks			Flushings		
Ser	2/1/2019 Blanton - Pinehurst water leak 15gpm	?	25,000	2/6/2019 Timberline - flushed 2 1/2 @ 20gpm	3,000
	Kathleen Hardwick - St Rt. 3 meter bottom busted	?	20,000	2/11/2019 kCopley - Arthur Rd 30mins@3gpm	90
Ser	Brooks - Blaine Crk 3/4" 10gpm	(1 1/2 days)	10,000	2/12/2019 Spankem Br - Flushing	5,000
Ser	Butchers - Blaine Crk 3/4" 5gpm	2 Days	30,000	2/13/2019 Clay Jack - Les	5,000
M	2/2/2019 Silver Run - 4" past Hedrick		100,000	Little Cat - original BO	3,000
Ser	Trace Rd - 3/4" line split 10gpm		75,000	Tigger Br	3,000
	2/4/2019 Hamilton - Needmore - reg & meter bottom		95,000	End of Little Cat Side	3,000
main	2/5/2019 Thomas - Homestead 8" coupling 10gpm		100,000	2/25/2019 Cochran - Pondview	2,425
	2/5/2019 Stewart - Long Br reg leaking 4gpm		15,000	2/27/2019 Russell - Mockingbird	4,000
	Salyers - Shanty Br meter bottom 1gpm		5,000		
	Jordan - St Hwy 773 reg leaking 10gpm		10,000		
main	2/9/2019 Thomas - Rt 60 bottom 8" line		100,000		
main	Thompson - Blaine Creek Rd		72,000		
	2/8/2019 Coal Dock - setter leaking		10,000		
main	2/13/2019 Dillon - Lakewood Village - 25-35gpm		50,000	<b>Fire Department</b>	
Ser	2/15/2019 McCall - Wilson Crk		45,300	Feb Big Sandy VFD	0
main	2/13/2019 Little Cat - 4" line in creek		100,000	East Fork VFD	0
main	2/15/2019 Dixons - St Rt 854 - 8" wrap leaking 40gpm		100,000	Norton Br VFD	12,000
main	2/13/2019 Route 3 b/4 Clay Jack		20,000		
main	2/7-2/19 Runyon - Spankem Br 1" line split under road 15gpm		150,000		
Ser	2/21/2019 Friendship - 3/4" service line leaking @ corp 15gpm		150,000	<b>Dead Meters</b>	
main	Friendship - 8" line wrap leaking 15gpm		100,000		
Ser	2/22/2019 Wolfe- Burchett Br - 10gpm		40,000		
main	2/22/2019 90 degree elbow - Callahan Ridge/Spurlock		200,000		
main	2/25/2019 Spankem Branch - Leak		30,000		
Ser	2/25/2019 Highway 207 - 3/4 service line 5gpm		10,000		
main	2/28/2019 Highway 3399 - leak		50,000		
main	2/1-2/28 Hwy 707/Burl Branch		175,000		
			<b>1,797,300</b>		

20,515

12,000



**Louisa Leaks**

**Flushings**

2/4/2019 Saul - Mattie Road - meter bottom 2,000

2/6/2019 Blankenship - Timberlake Dr 2,000

Brown - Meads Br - meter bottom & reg 10,000

2/8/2019 Torchlight 6,000

Tingler - S Hwy 3 - regulator busted 2,000

2/18/2019 Fugett - Torchlight 3,500

2/4/2019 Bartley - S Hwy 3 - meter bottom 10,000

2/20/2019 Adams - Long Fork 30mins. 3,000

*Serv* 2/3/2019 Boyd - Hwy 23 40-50gpm 30,000

*main* 2/5/2019 Torchlight - 3" bell pulled apart 20gpm 30,000

*Serv* Torchlight - 3/4" line split 5gpm 10,000

**Fire Department**

2/15/2019 Salyers - Fullers valve leaking thru 26,200

Cherryville

2/19/2019 Boyd Fuel Stop - reg leaking 3gpm 2,000

Feb Lowmansville 1,400

2/21/2019 Ferrell - Hwy 1760 meter bottom 20gpm 20,000

*main* 2/23/2019 Pt. Section Booster - 6" line split 30,000

*main* 2/24/2019 Ash Branch - 3" line washed out 50,000

*main* Hinkle - Gem Ln - hit 1" line 2,000

2/27/2019 Post Office - setter leaking - 2,000

*main* 2/29/2019 South Rt.3 - sleeve blewout 100,000

335,200

~~11,500~~

~~1,400~~





Appendix # C

Case #2019-00041

Dated: March 12, 2019

12. Copies provided that were generated to investigate leaks reported by customers from September 1, 2018 thru March 12, 2019.

Bobbi Burton

Big Sandy Water District  
**WORK ORDER 21742**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 9/5/2018  
Status Regular  
Scheduled 09/05/18 10:05 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38695845	1550415808	1958		
Description	3/4" line leak fixed 5gpm			
Comment				
Requested By	Todd	Assigned To	Bill, Tom, and Todd	Completed By Bill, Tom, and Todd
Start Date	09/05/18 02:27 PM			Completed Date 09/21/18 02:27 PM

Notes

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21747**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 9/6/2018  
Status Regular  
Scheduled 09/06/18 09:19 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 81579615	1490185546	2658		
Description	Neighbor called said leak around meter			
Comment	could not find any water			
Requested By	Customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	09/06/18 03:41 PM			Completed Date 09/06/18 03:41 PM

Notes

SECRET

SECRET

SECRET

SECRET



Big Sandy Water District  
**WORK ORDER 21750**

Account # ~~0011-00560-000~~  
Name ~~Price, Lucian~~  
Address ~~14 Glancy Trk Denton, KY 41132-8964~~  
Telephone ~~(606) 698-5926~~ Job #

Order Date 9/6/2018  
Status Scheduled  
Scheduled 09/06/18 01:19 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34723110	1486137296	2633		
<b>Description</b>	2" water in the driveway and yard. Coming from the meter well. Meter bottom			
<b>Comment</b>	split. Meter did turn just a little then stopped when turned back on. Approx. 7g			
<b>Requested By</b>	Neighbor <del>Carrie Leonard</del>	<b>Assigned To</b>	Jimmy Blanton	<b>Completed By</b> Jimmy Blanton
<b>Start Date</b>	09/06/18 03:35 PM			<b>Completed Date</b> 09/06/18 03:35 PM

Notes

SECRET

SECRET

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SECRET

Big Sandy Water District  
**WORK ORDER 21752**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED] #14129  
Telephone [REDACTED] Job #

Order Date 9/6/2018  
Status Scheduled  
Scheduled 09/06/18 03:01 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38695893	1471523568	3915	0	

Description low pressure

Comment showed leak on her side reading 3927

Requested By customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 09/06/18 08:17 AM

Completed Date 09/06/18 08:17 AM

Notes

Signature \_\_\_\_\_

██████████  
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Big Sandy Water District  
**WORK ORDER 21753**

Account # [REDACTED]  
Name Fannin, Homer Lee  
Address 12856 N Highway 3 Louisa, KY 41230  
Telephone (606) 686-2143 Job #

Order Date 9/6/2018  
Status Scheduled  
Scheduled 09/06/18 03:12 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 45045588	1490133936	3636	0	

Description water keeps pooling in front of mailbox on road

Comment customer leak on his side Les told Mr [REDACTED]

Requested By customer Assigned To Les Blanton

Completed By Les Blanton

Start Date 09/06/18 08:21 AM

Completed Date 09/06/18 08:21 AM

Notes

Signature \_\_\_\_\_

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21755**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED] RD Louisa, VA [REDACTED] 90  
Telephone [REDACTED] Job #

Order Date 9/7/2018  
Status Now  
Scheduled 09/07/18 08:37 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 40617661	1482384510	1758		
Description	Called in a leak approximately 1/4 mile up See Branch Rd on the right.			
Comment	Todd too. 4" line split.			
Requested By	customer	Assigned To	Bill, Tom and Les	Completed By Bill, Tom and Les
Start Date	09/07/18 12:56 PM			Completed Date 09/07/18 12:56 PM

Notes

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Big Sandy Water District  
**WORK ORDER 21774**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 9/12/2018  
Status Scheduled  
Scheduled 09/12/18 03:28 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 76551989	1490150657	5020		

Description customer knows there is a leak but wants meter checked and a reading got  
Comment \$15.00 service call will be charged to account. Reading 5035 on 9/12/18  
Requested By customer Assigned To Les Blanton Completed By Les Blanton  
Start Date 09/12/18 10:57 AM Completed Date 09/12/18 10:57 AM

Notes

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Big Sandy Water District  
**WORK ORDER 21775**

Account # [REDACTED]  
Name [REDACTED] Bradley, Theima  
Address [REDACTED] 23705 Bolts Fork Rd Rush, KY 41169  
Telephone [REDACTED] (606) 928-9003 Job #

Order Date 9/13/2018  
Status Scheduled  
Scheduled 09/13/18 10:10 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 74249649	1490194526	1219	0	

Description Pull in driveway - corner of house you will hear it. Fixed leak 20gpm.

Comment

Requested By customer Assigned To Less, Tom and Todd Completed By Tom and Les  
Start Date 09/13/18 07:59 AM Completed Date 09/13/18 08:00 AM

Notes

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Big Sandy Water District  
**WORK ORDER 21789**

Account # 0006-13400-001  
Name Grayson, William  
Address 429 Nursery Dr Rush, KY 41169  
Telephone (606) 923-0195 Job #

Order Date 9/18/2018  
Status Scheduled  
Scheduled 09/18/18 09:39 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 46267141	1490145220	6238	0	
Description	Customer said water coming out of meter well since Saturday - forgot to call.			
Comment	9/28/18. Still looks like groundwater.			
Requested By	Customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	09/18/18 12:05 PM			Completed Date 09/28/18 12:05 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21791**

Account # 0007-06450-003  
Name Mickiff, Paula  
Address 74 N State Highway 207 Rush, KY 41159  
Telephone (606) 547-6846 Job #

Order Date 9/18/2018  
Status Regular  
Scheduled 09/18/18 10:30 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 44296641	1490194400	3519	0	
Description	small leak - Fixed leak 10gpm			
Comment				
Requested By	Jimmy	Assigned To	Less, Tom and Todd	Completed By Less, Tom and Todd
Start Date	09/18/18 12:01 PM			Completed Date 09/27/18 12:01 PM

Notes

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[REDACTED]



Big Sandy Water District  
**WORK ORDER 21828**

Account # [REDACTED]  
Name [REDACTED] Sparks, David  
Address [REDACTED] 16329 Silver Run Rd Catlettsburg, KY 41120  
Telephone [REDACTED] (606) 739-6760 Job #

Order Date 9/20/2018  
Status Scheduled  
Scheduled 09/20/18 03:41 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948234	1471648814	4988	0	
<b>Description</b>	Water over meter well - not drying up. Thinks we may have a leak.			
<b>Comment</b>	leak on customers side very small cust has been informed as per Jimmy			
<b>Requested By</b>	customer	<b>Assigned To</b>	Jimmy Blanton	<b>Completed By</b> Jimmy Blanton
<b>Start Date</b>	09/20/18 03:53 PM			<b>Completed Date</b> 09/20/18 03:54 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21834**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 9/21/2018  
Status Scheduled  
Scheduled 09/21/18 12:30 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79790217	1471526928	5419	0	
Description	in front of house may have caused the road to drop off.			
Comment	3/4" line split.			
Requested By	customer	Assigned To	Randy, Bill and Tommy	Completed By Randy, Bill and Tommy
Start Date	09/21/18 10:12 AM		Completed Date	10/12/18 10:12 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21846**

Account # 0021-28899-001  
Name Thompson, Russell  
Address 1955 Highway 1760 Louisa, KY 41230  
Telephone (606) 673-3523 Job #

Order Date 9/24/2018  
Status Scheduled  
Scheduled 09/24/18 03:18 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34722996	1490168382	2385	0	

Description Customer said water spraying in meter well. He turned off but says this is on our side. Please check when fixed to see if turning. Customer's leak.

Requested By customer Assigned To Todd Completed By Todd  
Start Date 09/24/18 07:58 AM Completed Date 09/24/18 07:58 AM

Notes

Signature \_\_\_\_\_

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Big Sandy Water District  
**WORK ORDER 21854**

Account # 0007-08900-001  
Name Rice, Zaida  
Address 5277 E US Highway 60 Rush, KY 41168  
Telephone (606) 474-5749 Job #

Order Date 9/26/2018  
Status Scheduled  
Scheduled 09/26/18 01:47 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 78762127	1487950483	2454	0	

Description Has checked their side not showing a leak - still very wet. Please check.

Comment Meter bottom leaking 3gpm

Requested By customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 09/26/18 03:20 PM

Completed Date 09/28/18 03:20 PM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 21856**

Account # 0023-22999-001  
Name Skeens, Robert  
Address 650 Beasley Branch Rd Ulysses, KY 41262  
Telephone (606) 793-7815 Job #

Order Date 9/27/2018  
Status Scheduled  
Scheduled 09/27/18 10:19 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891368	1490160380	2446	0	
Description	very low pressure checked with neighbor, Jim Bevins, pressure low also			
Comment	We had a leak - about 30gpm			
Requested By	customer	Assigned To	Less, Tom and Todd	Completed By Less, Tom and Todd
Start Date	09/27/18 12:12 PM			Completed Date 09/27/18 12:12 PM

Notes



Big Sandy Water District  
**WORK ORDER 21867**

Account # [REDACTED]  
Name [REDACTED] Adkins, Archie  
Address [REDACTED] 58 Strawberry Ct Callettsburg, KY 41129  
Telephone [REDACTED] (606) 686-2223 Job #

Order Date 10/2/2018  
Status Scheduled  
Scheduled 10/02/18 09:52 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34722871	1490148536	2905	0	
<b>Description</b> Possible leak at the meter. Ground water 10/10 cust called back said lk @meter				
<b>Comment</b> Bill/Tom/Randy dug up could not find leak 10/12/2018				
<b>Requested By</b> customer		<b>Assigned To</b> Bill and Tommy		<b>Completed By</b> Bill and Tommy
<b>Start Date</b> 10/02/18 10:27 AM		<b>Completed Date</b> 10/02/18 10:27 AM		

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21880**

Account # 0007-10600-001  
Name Sergeant, Jack  
Address 6904 Wilson Creek Rd Grayson, KY 41143  
Telephone (606) 316-6727 Job #

Order Date 10/3/2018  
Status Regular  
Scheduled 10/03/18 12:16 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 36386980	1547972540	43	0	

Description Said leak is a lot worse than it was. 3/4" service line 4gpm

Comment

Requested By Customer Assigned To Jimmy, Les and Todd Completed By Jimmy, Les and Todd

Start Date 10/03/18 11:23 AM Completed Date 11/07/18 11:23 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21962**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 10/18/2018  
Status Scheduled  
Scheduled 10/18/18 02:39 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 76551994	1490171786	1419	0	

Description Customer had plumber there said we need to check meter. Todd checked said she has a leak on her side of the meter. Reading 1429 on 10/19/2018.

Requested By customer Assigned To Todd Completed By Todd  
Start Date 10/18/18 09:20 AM Completed Date 10/19/18 09:20 AM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 21965**

Account # 0009 05230-001  
Name Knight, Deanna  
Address 36 Panther Ln Catlettsburg, KY 41129  
Telephone (606) 686-2274 Job #

Order Date 10/18/2018  
Status Scheduled  
Scheduled 10/18/18 02:58 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891518	1490160524	2918		
<b>Description</b>	we fixed and 1" line in January & cust thinks it is leaking again. 10/19 Didn't			
<b>Comment</b>	any H2O check again at later date. No leak.			
<b>Requested By</b>	customer	<b>Assigned To</b>	Tommy Cornwell	<b>Completed By</b> Tommy Cornwell
<b>Start Date</b>	10/18/18 10:04 AM			<b>Completed Date</b> 12/12/18 10:04 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21972**

Account # 0005-24540-001  
Name Young, Donald & Carolyn  
Address 19014 State Route 854 Rush, KY 41168  
Telephone 928-6019 Job #

Order Date 10/19/2018  
Status Scheduled  
Scheduled 10/19/18 09:10 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 44296671	1486320216	3901		
<b>Description</b>	steady stream of water coming out of well informed may chg \$15 srv call etc...			
<b>Comment</b>	Not sure keep check on it.			
<b>Requested By</b>	customer	<b>Assigned To</b>	Bill and Tommy	<b>Completed By</b> Bill and Tommy
<b>Start Date</b>	10/19/18 09:31 AM			<b>Completed Date</b> 10/19/18 09:31 AM

Notes

Signature \_\_\_\_\_

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[REDACTED]

Big Sandy Water District  
**WORK ORDER 21975**

Account # 0012-00349-001  
Name Stevens, Lois  
Address 122 Jerry Riffe Ridge Rd Louisa, KY 41230  
Telephone (606) 686-2559 Job #

Order Date 10/19/2018  
Status Scheduled  
Scheduled 10/19/18 10:34 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77363010	1490119258	7714	0	

Description Guy that mows her grass thinks there is a leak here in the ditch line.

Comment Bill & Tom checked Thanksgiving (dry)

Requested By customer

Assigned To Bill and Tommy

Completed By Bill and Tommy

Start Date 10/19/18 12:41 PM

Completed Date 11/22/18 12:41 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22009**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 10/24/2018  
Status Regular  
Scheduled 10/24/18 12:49 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77362977	1490140142	7730	0	

Description In driveway. Small leak between pole and culvert. Approx. 7gpm

Comment

Requested By Customer Assigned To Jimmy, Les and Todd Completed By Jimmy, Les and Todd

Start Date 10/24/18 12:54 PM Completed Date 11/08/18 12:54 PM

Notes

Signature \_\_\_\_\_

[REDACTED]  
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[REDACTED]



Big Sandy Water District  
**WORK ORDER 22016**

Account # 0010-08450-001  
Name Hughes, Jerry  
Address 1510 Morgans Creek Rd Louisa, KY 41230  
Telephone (606) 686-2549 Job #

Order Date 10/25/2018  
Status Scheduled  
Scheduled 10/25/18 10:56 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891618	1484695310	11308	0	
Description	Water pouring out where we fixed line.			
Comment	Turned Off			
Requested By	customer	Assigned To	Tommy Cornwell	Completed By Tommy Cornwell
Start Date	10/25/18 01:19 PM			Completed Date 10/25/18 01:19 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22024**

Account # 0010-09600-005  
Name Johnson, Bill  
Address 340 Highway 707 Louisa, KY 41230  
Telephone (606) 686-2440 Job #

Order Date 10/26/2018  
Status Scheduled  
Scheduled 10/26/18 03:37 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84898029	1490114076	3373		

Description Changed regulator.

Comment

Requested By customer Assigned To Tom and Rusty Completed By Tom and Rusty

Start Date 10/26/18 12:35 PM Completed Date 10/26/18 12:35 PM

Notes

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Big Sandy Water District  
**WORK ORDER 22059**

Account # 0013-20100-001  
Name Boyds Fuel Stop-School  
Address 20858 Highway 23 Louisa, KY 41230  
Telephone (606) 483-3557 Job #

Order Date 11/1/2018  
Status Now  
Scheduled 11/01/18 10:41 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 85370670	1490488256	4611	0	

Description S-pipe leaking 5gpm.

Comment

Requested By Jim Blanton

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 11/01/18 10:15 AM

Completed Date 11/01/18 10:16 AM

Notes

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Big Sandy Water District  
**WORK ORDER 22060**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 11/1/2018  
Status Scheduled  
Scheduled 11/01/18 11:59 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34722871	1490148536	2905	0	
Description	checked this on 10/2/18 bill tom randy dug up 10/12 no leak ground water			
Comment	never water stand around meter recheck & call 615-0306. No leak.			
Requested By	customer	Assigned To	Tommy Cornwell	Completed By Tommy Cornwell
Start Date	11/01/18 08:24 AM			Completed Date 11/21/18 08:24 AM

Notes

Signature \_\_\_\_\_

[REDACTED]  
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Big Sandy Water District  
**WORK ORDER 22067**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED]      Job #

Order Date 11/2/2018  
Status Scheduled  
Scheduled 11/02/18 01:47 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77362964	1550399222	1901	0	

Description Valve leaking pretty good. - Dripping per Tom  
Comment

Requested By customer      Assigned To Bill and Tommy      Completed By Bill and Tommy  
Start Date 11/02/18 12:30 PM      Completed Date 11/07/18 12:30 PM

Notes

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Big Sandy Water District  
**WORK ORDER 22068**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 11/2/2018  
Status Scheduled  
Scheduled 11/02/18 02:06 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 81579666	1545047336	306		

Description triangle not turning & water is running from bottom of meter

Comment Meter bottom - 1gpm

Requested By customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 11/02/18 10:47 AM

Completed Date 11/02/18 10:47 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22069**

Account # 0009-04550-001  
Name Courtney Farrell Dean  
Address 54 Buchanan Chapel Rd Catlettsburg, KY 41129  
Telephone (606) 686-2513 Job #

Order Date 11/5/2018  
Status Scheduled  
Scheduled 11/05/18 08:08 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891592	1490132564	4916	0	
Description Fixed leak on 3/4" line 10gpm				
Comment				
Requested By customer		Assigned To Bill, Tommy and Rusty		Completed By Bill, Tommy and Rusty
Start Date 11/05/18 10:54 AM		Completed Date 11/05/18 10:54 AM		

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22073**

Account # 0001-02801-001  
Name Miller, Phillip  
Address 5805 State Route 3 Catlettsburg, KY 40309  
Telephone (606) 739-4088 Job #

Order Date 11/5/2018  
Status Scheduled  
Scheduled 11/05/18 09:51 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948207	1471563936	6414	0	
Description	At the meter customer says coupling leaking says this is ours???? Nut leaking			
Comment	2gpm in the setter.			
Requested By	customer	Assigned To	Tom and Rusty	Completed By Tom and Rusty
Start Date	11/05/18 11:10 AM			Completed Date 11/05/18 11:10 AM

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Big Sandy Water District  
**WORK ORDER 22079**

Account # 0010-05300-001  
Name Fann, Rodney H  
Address 670 Big Cat Fork Rd Louisa, KY 41230  
Telephone (606) 422-3592 Job #

Order Date 11/5/2018  
Status Scheduled  
Scheduled 11/05/18 02:57 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891670	1490123054	1199	0	
Description	Customer has used 23,800 gallons. They had a leak changed reading from			
Comment	1179 to 1199 on 11/5/2018.			
Requested By	customer	Assigned To	Todd and Rusty	Completed By Todd and Rusty
Start Date	11/05/18 11:14 AM			Completed Date 11/05/18 11:14 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22091**

Account # 0009-05950-001  
Name Osborne, John  
Address 584 Mill Branch Rd Cateletsburg, KY 41129  
Telephone (606) 686-2465 Job #

Order Date 11/7/2018  
Status Scheduled  
Scheduled 11/07/18 08:34 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 37262134	1490147612	3125	0	

Description leak in road in front of meter down from where you worked before

Comment Fixed leak on 3/4" service line 10gpm

Requested By customer Assigned To Bill, Tommy and Rusty Completed By Bill, Tommy and Rusty

Start Date 11/07/18 11:13 AM Completed Date 11/07/18 11:13 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22094**

Account # 0020-00350-002  
Name Reed, Josh  
Address 484 Highway 644 Louisa, KY 41230  
Telephone (606) 254-7991 Job #

Order Date 11/7/2018  
Status Scheduled  
Scheduled 11/07/18 11:47 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891413	1490155202	957	0	
Description	landlord phoned triangle is turning leak @ connect can't fix because too close			
Comment	Todd talked to Cust is going to call T if he still has anything wrong			
Requested By	customer	Assigned To	Todd	Completed By Todd
Start Date	11/09/18 03:13 PM			Completed Date 11/09/18 03:13 PM

Notes

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Big Sandy Water District  
**WORK ORDER 22099**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 11/8/2018  
Status Scheduled  
Scheduled 11/08/18 07:59 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891531	1490166570	2000		

Description Leak in yard. Very small leak. Done

Comment

Requested By customer Assigned To Jimmy Blanton Completed By Jimmy Blanton

Start Date 11/08/18 01:31 PM Completed Date 12/06/18 01:31 PM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 22105**

Account # [REDACTED]  
Name [REDACTED] Stella Natural Resources, Inc.  
Address [REDACTED] 5992 Old Route 23 Rd Catlettsburg, KY 41129  
Telephone [REDACTED] (606) 547-8678 Job #

Order Date 11/9/2018  
Status Scheduled  
Scheduled 11/09/18 01:13 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 31652071	1481259348	9620	0	

Description Had called them about usage 14,500gallons. Said water coming up out of meter  
Comment well.

Requested By customer Assigned To Bill and Tommy Completed By Bill and Tommy  
Start Date 11/09/18 01:48 PM Completed Date 11/09/18 01:48 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22119**

Account # 0003-06551-001  
Name Wellman, Bert  
Address 8622 Lynnwood Dr Catlettsburg, KY 41129-8038  
Telephone (606) 739-5873 Job #

Order Date 11/14/2018  
Status Scheduled  
Scheduled 11/14/18 08:04 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38245569	1545038436	1220		
Description	Neighbors meter well pouring water over the top.			
Comment	Leak on 3" line 75gpm.			
Requested By	customer	Assigned To	Tom, Les and Rusty	Completed By Tom, Les and Rusty
Start Date	11/14/18 01:47 PM			Completed Date 11/14/18 01:47 PM

Notes

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Big Sandy Water District  
**WORK ORDER 22124**

Account # 0007-04450-002  
Name Nunley, Alex  
Address 7094 E US Highway 60 Rush, KY 41168-886  
Telephone (606) 547-6332 Job #

Order Date 11/14/2018  
Status Scheduled  
Scheduled 11/14/18 12:12 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 82072554	1490138776	133		
<b>Description</b>	Says this is on our side of meter. Leak is at the connection. Pigtail/bluemax			
<b>Comment</b>	was leaking. Water Co installed so I repaired need to charge just a min. bill.			
<b>Requested By</b>	customer	<b>Assigned To</b>	Todd & Jim	<b>Completed By</b> Todd & Jim
<b>Start Date</b>	11/14/18 08:49 AM			<b>Completed Date</b> 11/14/18 08:49 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22143**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 11/19/2018  
Status Scheduled  
Scheduled 11/19/18 12:25 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77494575	1551701376	1774	0	

Description Hit waterline. Customer hit his own service line.

Comment

Requested By customer Assigned To Tom and Rusty Completed By Tom and Rusty

Start Date 11/19/18 08:04 AM Completed Date 11/19/18 08:04 AM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 22146**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 11/19/2018  
Status Regular  
Scheduled 11/19/18 02:31 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 80863819	1450198736	4276	0	

Description Right past his house on the right. Fixed leak.

Comment

Requested By Jimmy Assigned To Tommy Cornwell Completed By Tommy Cornwell

Start Date 11/19/18 08:25 AM Completed Date 11/19/18 08:25 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22172**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 11/21/2018  
Status Scheduled  
Scheduled 11/21/18 02:10 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 43384302	1490117786	7830	0	
Description	cust reports leak on Sycamore not theirs but near. Fixed leak on 3/4" line			
Comment	15gpm.			
Requested By	customer	Assigned To	Bill, Tommy and Rusty	Completed By Bill, Tommy and Rusty
Start Date	11/21/18 08:23 AM			Completed Date 11/21/18 08:23 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22182**

Account # [REDACTED]  
Name [REDACTED] Webb, Josh & Lisa  
Address [REDACTED] 1069 Fullers Ridge Rd Louisa, KY 41230  
Telephone [REDACTED] (604) 416-0012 Job #

Order Date 11/26/2018  
Status Scheduled  
Scheduled 11/26/18 09:06 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 73758906	1546273872	2		
Description	Dead meter also! Meter is not dead. New house also no leak - ditch is full of mud.			
Comment	mud.			
Requested By	customer	Assigned To	Jimmy and Les	Completed By Jimmy and Les
Start Date	11/26/18 01:33 PM		Completed Date	12/06/18 01:33 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22218**

Account # [REDACTED]  
Name [REDACTED] Earley, Wanda & Charles  
Address [REDACTED] 122 Rabbit Ln Catlettsburg, KY 41129  
Telephone [REDACTED] (606) 213-8301 Job #

Order Date 12/3/2018  
Status Scheduled  
Scheduled 12/03/18 07:44 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 40061029	1483704213	3356		

Description Was told there would be a charge  
Comment Leak on their side. Billed customer \$15

Requested By customer Assigned To Tommy Cornwell Completed By Tommy Cornwell  
Start Date 12/03/18 01:56 PM Completed Date 12/03/18 01:56 PM

Notes

Signature \_\_\_\_\_

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[REDACTED]

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Big Sandy Water District  
**WORK ORDER 22239**

Account #  
Name  
Address  
Telephone

Order Date 12/5/2018  
Status Scheduled  
Scheduled 12/05/18 03:25 PM  
Order Type Water Leak

Description 1" line leaking  
Comment fixed leak 20 gal min

Job #

Requested By \_\_\_\_\_ Assigned To Tommy Cornwell Completed By Tommy Cornwell

Start Date 12/05/18 08:12 AM Completed Date 12/05/18 08:12 AM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 22254**

Account # 0006-08450-001  
Name Whitley, Raymond R  
Address 16428 State Route 854 Rush, KY 41168  
Telephone (606) 928-3022 Job #

Order Date 12/6/2018  
Status Scheduled  
Scheduled 12/05/18 01:20 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77362977	1490140142	7775	0	

Description lives next to Cooper & there is water everywhere. Repaired leak at the meter.

Comment

Requested By customer Assigned To Jimmy and Les Completed By Jimmy and Les  
Start Date 12/06/18 08:54 AM Completed Date 12/06/18 08:54 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22252**

Account #  
Name  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 12/5/2018  
Status Scheduled  
Scheduled 12/05/18 12:22 PM  
Order Type Water Leak

Description Fixed Leak 20 gal min

Comment

Requested By \_\_\_\_\_ Assigned To Tommy Cornwell Completed By Tommy Cornwell

Start Date 12/05/18 12:24 PM Completed Date 12/05/18 12:24 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22260**

Account # 0021-10249-003  
Name Tackett, Nicholas & Holly  
Address 27 Cedgap Rd Louisa, KY 41230  
Telephone (606) 477-1154 Job #

Order Date 12/10/2018  
Status Scheduled  
Scheduled 12/10/18 12:16 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 46569492	1483715790	2388		
Description	Road fell in and the water is pouring. Dug out line repaired. split covered			
Comment	back up.			
Requested By	Holly Tackett 673-3625	Assigned To	Bill, Tommy and Rusty	Completed By Bill, Tommy and Rusty
Start Date	12/10/18 02:46 PM			Completed Date 12/10/18 02:46 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

[REDACTED]



Big Sandy Water District  
**WORK ORDER 22266**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 12/11/2018  
Status Scheduled  
Scheduled 12/11/18 11:22 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 81345392	1490163758	1221	0	

Description between her 2 accounts  
Comment at the corner of driveway approx 8 gpm will repair today  
Requested By customer Assigned To Jimmy and Les Completed By Jimmy and Les  
Start Date 12/11/18 03:11 PM Completed Date 12/11/18 03:11 PM

Notes

Signature \_\_\_\_\_

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Big Sandy Water District  
**WORK ORDER 22278**

Account # 0005-23760-001  
Name Maroudis, Sean  
Address 22155 Long Branch Rd Rush, KY 41168  
Telephone (606) 929-5202 Job #

Order Date 12/13/2018  
Status Scheduled  
Scheduled 12/13/18 10:46 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 76106150	1551860966	7855	0	
Description	New meter 76106510 Ert #1551860966 reading 1 on 12/13/18. Old reading			
Comment	7855.			
Requested By	Assigned To	Les Blanton	Completed By	Les Blanton
Start Date	12/13/18 10:47 AM		Completed Date	12/13/18 10:47 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22279**

Account # 0023-06849-001  
Name Adkins, Charles & Lois  
Address 8380 Ky Route 581 River, KY 41254  
Telephone (606) 297-282 Job #

Order Date 12/13/2018  
Status Now  
Scheduled 12/13/18 10:57 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 82072559	1490156078	8306	0	

Description Water squirting out of meter. Changed meter bottom.

Comment

Requested By customer Assigned To Rusty Austin Completed By Rusty Austin  
Start Date 12/13/18 03:30 PM Completed Date 12/13/18 03:30 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22325**

Account # [REDACTED]  
Name Childers, Joseph  
Address 19700 State Route 854 Rush, KY 41168  
Telephone (606) 928-9295 Job #

Order Date 12/18/2018  
Status Scheduled  
Scheduled 12/18/18 08:38 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891268	1551685328	3764	0	

Description Think this maybe under blacktop. Checked ground water.

Comment

Requested By Jimmy Assigned To Les Blanton Completed By Les Blanton

Start Date 12/18/18 02:16 PM Completed Date 12/18/18 02:16 PM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 22326**

Account # 0007-07750-003  
Name Jenkins, Ruth & Glen  
Address 6604 E US Highway 60 Rush, KY 41168-8823  
Telephone (606) 474-6160 Job #

Order Date 12/18/2018  
Status Scheduled  
Scheduled 12/18/18 08:39 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79790121	1551850788	9723		

Description Service line at the meter. Leak on service line. Old reading 9773 1/15/19. 10gp

Comment We fixed leak 1/15/19. New meter 79790121 Ert #1551850788 reading 1.

Requested By Jimmy Assigned To Les Blanton Completed By Les Blanton

Start Date 12/18/18 02:23 PM Completed Date 12/26/18 02:23 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22352**

Account # 0009-05230-001  
Name Knight, Deanna  
Address 36 Panther Ln Gatletsburg, KY 41129  
Telephone (606) 686-2274 Job #

Order Date 12/19/2018  
Status Scheduled  
Scheduled 12/19/18 03:42 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891518	1490160524	2964		
<b>Description</b> 2 leaks 1 in same place(middle of driveway) as before(fixed in October)				
<b>Comment</b> other 1 is before you get to this 1. Fixed leak				
<b>Requested By</b> customer		<b>Assigned To</b> Les Blanton		<b>Completed By</b> Les Blanton
<b>Start Date</b> 12/19/18 10:04 AM		<b>Completed Date</b> 12/20/18 10:04 AM		

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 22370**

Account # 0003-03501-001

Name Burns, James

Address 6927 Silver Run Rd Catlettsburg, KY 41129-8377

Telephone (606) 739-4540

Job #

Order Date 12/27/2018

Status Scheduled

Scheduled 12/27/18 08:44 AM

Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
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WT 83948711	1471560656	4075	0	
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Description between turn from Alley Br & their home according to a tree srv that are trim tr

Comment 40gpm fixed.

Requested By customer

Assigned To Rusty and Bill

Completed By Rusty and Bill

Start Date 12/27/18 01:18 PM

Completed Date 12/27/18 01:18 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22371**

Account # 0003-02501-001  
Name Robinette, Joan  
Address 17150 Arthur Rd Callettsburg, KY 41129  
Telephone (606) 739-5666 Job #

Order Date 12/27/2018  
Status Scheduled  
Scheduled 12/27/18 10:56 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 40061012	1484465284	123	0	
<b>Description</b> Right by driveway, culvert. No leak (spring)				
<b>Comment</b>				
<b>Requested By</b> customer		<b>Assigned To</b> Rusty and Bill		<b>Completed By</b> Rusty and Bill
<b>Start Date</b> 12/27/18 02:21 PM		<b>Completed Date</b> 12/27/18 02:21 PM		

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 22379**

Account # 0001-04001-001  
Name Slayton, Gary  
Address 6509 Stanley Ln Catlettsburg, KY 41129  
Telephone (606) 739-0042 Job #

Order Date 12/28/2018  
Status Scheduled  
Scheduled 12/28/18 11:00 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948223	1487752870	7557	0	
<b>Description</b>	near driveway ditch H2O gushing our leak or his? please call & make sure not			
<b>Comment</b>	using H2O when checking NO LEAK JUST GROUND WATER			
<b>Requested By</b>	customer	<b>Assigned To</b>	Randy and Tommy	<b>Completed By</b> Randy and Tommy
<b>Start Date</b>	12/28/18 12:00 PM			<b>Completed Date</b> 12/28/18 12:00 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22382**

Account # 0004-02600-001  
Name Ross, Jerry  
Address 4976 Friendship Rd Catlettsburg, KY 41129  
Telephone (606) 928-3357 Job #

Order Date 12/31/2018  
Status Scheduled  
Scheduled 12/31/18 08:08 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948718	1471569136	4512	0	

Description Beside the driveway. Replaced s-pipe  
Comment

Requested By customer Assigned To Tom and Les Completed By Tom and Les  
Start Date 12/31/18 12:00 AM Completed Date 01/09/19 03:53 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22412**

Account # 0002-08350-001  
Name Kirk, Carl  
Address 28498 Amber Lea Ln Callettsburg, KY 41129  
Telephone (606) 739-4302 Job #

Order Date 1/7/2019  
Status Scheduled  
Scheduled 01/07/19 11:42 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 36387039	1547220318	1151	0	

Description Call him at (606) 739-4302. His leak per Tom.

Comment

Requested By cus Assigned To Tommy Cornwell Completed By Tommy Cornwell

Start Date 01/07/19 08:35 AM Completed Date 01/07/19 08:35 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22416**

Account # [REDACTED]  
Name [REDACTED] McCoy, Jennifer  
Address [REDACTED] 4017 Kendell Ln Catlettsburg, KY 41129  
Telephone [REDACTED] (606) 254-9541 Job #

Order Date 1/7/2019  
Status Scheduled  
Scheduled 01/07/19 12:45 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948585	1471642998	4640	0	
<b>Description</b>	Said meter is full of water. They dipped it out said it was not turning. Thinks			
<b>Comment</b>	it maybe something on our side. Ground water.			
<b>Requested By</b>	customer	<b>Assigned To</b>	Bill and Tommy	<b>Completed By</b> Bill and Tommy
<b>Start Date</b>	01/07/19 08:59 AM			<b>Completed Date</b> 01/07/19 08:59 AM

Notes





Big Sandy Water District  
**WORK ORDER 22422**

Account # [REDACTED]  
Name [REDACTED] Moore, Vaughn  
Address [REDACTED] 1784 Wilber Rd Blaine, KY 41124  
Telephone [REDACTED] (606) 652-9350 Job #

Order Date 1/7/2019  
Status Scheduled  
Scheduled 01/07/19 03:24 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77494427	1490155664	1257	0	
Description	Customer called said we have a water leak by the road. At all 3 meters			
Comment	1782 Wilber Rd, 1784 Wilber Rd, 1786 Wilber Rd. Moved meter's 5' fixed leak.			
Requested By	Customer	Assigned To	Bill and Tommy	Completed By Bill, Tom and Les
Start Date	01/07/19 09:09 AM			Completed Date 01/10/19 09:09 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22446**

Account # [REDACTED]  
Name [REDACTED] Star School  
Address [REDACTED] E US Highway 60 Rush, KY 41168  
Telephone [REDACTED] (606) 474-5756 Job #

Order Date 1/10/2019  
Status Regular  
Scheduled 01/10/19 10:37 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT			0	
WT 70311033	1487926211	600		
WT 70311033h	1487926210	6932		

Description Old 1" tap. Small leak  
Comment No Leak

Requested By Jim Blanton Assigned To Jimmy Blanton Completed By Jimmy Blanton

Start Date 01/10/19 02:59 PM Completed Date 01/10/19 02:59 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22449**

Account # [REDACTED]  
Name [REDACTED] Deborde, Matthew  
Address [REDACTED] 305 Fighting Frk Grayson, KY 41149  
Telephone [REDACTED] (606) 474-8598 Job # [REDACTED]

Order Date 1/10/2019  
Status Regular  
Scheduled 01/10/19 11:45 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 75502519	1490187346	12350	0	
Description	[REDACTED] George Fanning called said where [REDACTED] driveway comes out there is a leak			
Comment	Also Randy. Repaired 3" line.			
Requested By	Customer	Assigned To	Jimmy and Les	Completed By Jimmy and Les
Start Date	01/10/19 11:48 AM			Completed Date 01/10/19 11:48 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22530**

Account #

Name **Mail Carrier**

Address **429 Nursery Dr**

Telephone

Job #

Order Date 1/22/2019

Status Regular

Scheduled 01/22/19 11:37 AM

Order Type Water Leak

Description Possible leak. Yep a leak - called Randy. Bill, Tom, Rusty and Randy repaired.

Comment

Requested By Customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 01/22/19 08:26 AM

Completed Date 01/22/19 08:26 AM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 22545**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 1/25/2019  
Status Scheduled  
Scheduled 01/25/19 08:32 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38335093	1490149150	2374		
Description	Has off because there is 2 leaks. Please check			
Comment	meter bottom			
Requested By	customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	01/25/19 08:40 AM		Completed Date	01/25/19 08:40 AM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 22557**

Account # [REDACTED]  
Name Salyers, John  
Address 16000 Bowling Dr Catlettsburg, KY 41129-9053  
Telephone (606) 615-1877 Job #

Order Date 1/29/2019  
Status Scheduled  
Scheduled 01/29/19 09:12 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77494594	1487437358	2810		
Description	[REDACTED] John Salyers (father) called & said water standing all around			
Comment	& inside of well Jimmy checked & took pic NO LEAK no water in yard or well			
Requested By	customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	01/29/19 01:39 PM		Completed Date	01/29/19 01:39 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22570**

Account # 0004-03200-001  
Name Thompson, Alichia  
Address 4329 Friendship Rd Catlettsburg, KY 41129  
Telephone (606) 928-7694 Job #

Order Date 1/31/2019  
Status Scheduled  
Scheduled 01/31/19 08:12 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77494436	1487938682	3976	0	

Description Leak in service line on our side  
Comment Les worked this job also fixed leak 10-15 gpm  
Requested By Jimmy Assigned To Bill, Tommy and Rusty Completed By Bill, Tommy and Rusty  
Start Date 02/21/19 08:40 AM Completed Date 02/21/19 08:40 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22577**

Account # 0005-10850-001  
Name Blevins, Clayton  
Address 16226 Trace Rd Rush, KY 41168-7914  
Telephone (270) 363-9247 Job #

Order Date 1/31/2019  
Status Regular  
Scheduled 01/31/19 12:53 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948657	1483715572	14349	0	

Description fixed

Comment

Requested By Les

Assigned To Les Blanton

Completed By Les Blanton

Start Date 01/31/19 01:31 PM

Completed Date 01/31/19 01:31 PM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 22580**

**Account #**

**Name**

**Address**

**Telephone**

**Job #**

**Description** 707/Burl Branch Blow off

**Comment** Got it to shut off - 3/5/19

**Requested By** Jimmy

**Assigned To** Tommy Cornwell

**Completed By** Tommy Cornwell

**Start Date** 01/31/19 02:40 PM

**Completed Date** 03/05/19 02:40 PM

**Order Date**

1/31/2019

**Status**

Scheduled

**Scheduled**

01/31/19 03:35 PM

**Order Type**

Water Leak

**Notes**

**Signature** \_\_\_\_\_

THE UNIVERSITY OF CHICAGO

Department of Chemistry  
5780 South University Avenue  
Chicago, Illinois 60637

Office of the Dean  
5780 South University Avenue  
Chicago, Illinois 60637

Dear Mr. [Name]:

[The main body of the letter contains several paragraphs of text that are extremely faint and illegible due to the quality of the scan. The text appears to be a formal letter, possibly a letter of appointment or a letter of recommendation, given the context of the header information.]

Big Sandy Water District  
**WORK ORDER 22585**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 2/1/2019  
Status Scheduled  
Scheduled 02/01/19 10:25 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84897759	1490149284	7595		

Description small leak in front of house  
Comment fixed

Requested By Les Assigned To Les Blanton Completed By Les Blanton  
Start Date 02/01/19 01:30 PM Completed Date 02/01/19 01:30 PM

Notes

Signature \_\_\_\_\_

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Big Sandy Water District  
**WORK ORDER 22605**

Account # 0020-17140-001  
Name Egett, Ralph & Sylvia  
Address 1912 Torchlight Rd Louisa, KY 41230-5697  
Telephone (606) 673-3142 Job #

Order Date 2/5/2019  
Status Regular  
Scheduled 02/05/19 09:36 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 94974225	1487200272	771		

**Description** 2 leaks-one by guardrail and across the hill past red barn about 300' -he said

**Comment** there is oil line. Randy helped. Dug up line and repaired in both places.

**Requested By** Customer

**Assigned To** Rusty and Bill

**Completed By** Rusty and Bill

**Start Date** 02/05/19 08:20 AM

**Completed Date** 02/05/19 08:20 AM

**Notes**

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22606**

Account # 0007-00200-004  
Name Thomas, Pam & Rodney  
Address 134 Homstead Dr Rush, KY 41168  
Telephone (606) 371-9083 Job #

Order Date 2/5/2019  
Status Scheduled  
Scheduled 02/05/19 12:00 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38696037	1547221524	4079		
Description	bottom. Leak is on mainline, not at the meter - its marked with blue flag.			
Comment	8" line coupling - 10gpm.			
Requested By	Jimmy	Assigned To	Jimmy and Les	Completed By Jimmy and Les
Start Date	02/05/19 11:22 AM			Completed Date 02/08/19 11:22 AM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 22622**

Account # 0010-09200-001  
Name Runyon, Rhoda  
Address 1063 Spankem Cat Fork Rd Louisa, KY 41230  
Telephone (606) 686-1341 Job #

Order Date 2/7/2019  
Status Regular  
Scheduled 02/07/19 01:42 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83227340	1490146356	24481	0	

Description Service line under road. Les and Randy helped to. Service line put new line  
Comment in leaking 10gpm. Leaking 12 days.

Requested By Jimmy Assigned To Bill, Tommy and Rusty Completed By Bill, Tommy and Rusty  
Start Date 02/07/19 03:11 PM Completed Date 02/19/19 03:11 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22626**

Account # 0020-17125-001  
Name Prince, Daniel & Karen  
Address 1314 Torchlight Rd Louisa, KY 41230-5508  
Telephone (606) 939-4463 Job #

Order Date 2/8/2019  
Status Regular  
Scheduled 02/08/19 02:25 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 94855915	1487200364	3499		
Description	Said it appears to be leaking where we fixed leak and water is dirty please flus			
Comment	Flushed 6,000 gallons 1 1/2 hrs.			
Requested By	Customer	Assigned To	Todd	Completed By Todd
Start Date	02/08/19 08:40 AM			Completed Date 02/08/19 08:40 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22628**

Account # 0023-15675-001  
Name Barker, Tammy A  
Address 855 Youngs Branch Rd Lowmansville, KY 41230  
Telephone (606) 424-2145 Job #

Order Date 2/11/2019  
Status Regular  
Scheduled 02/11/19 09:01 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 73410340	1487443824	1474		

Description Around meter. No leak 2/13 cust phoned again seemed sure this leak on our side

Comment Rusty checked again - no leak.

Requested By Customer Assigned To Rusty Austin Completed By Rusty Austin  
Start Date 02/11/19 09:00 AM Completed Date 02/11/19 09:00 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22639**

Account # 0007-07100-001  
Name Sallie, Evelyn  
Address 706 N State Highway 207 Rush, KY 41168  
Telephone (606) 474-9757 Job #

Order Date 2/13/2019  
Status Scheduled  
Scheduled 02/13/19 08:22 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77494535	1487749610	2814	0	
<b>Description</b>	leak is where state hwy broke line & fixed b4 informed cust to call hwy dept			
<b>Comment</b>	see if they fix again 2/12 read 2844 les shut off & Jimmy called them			
<b>Requested By</b> jimmy	<b>Assigned To</b> Les Blanton	<b>Completed By</b> Les Blanton		
<b>Start Date</b> 02/12/19 08:31 AM	<b>Completed Date</b> 02/12/19 08:31 AM			

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 22644**

Account # 0011-00090-001  
Name Johnson, Tiffany  
Address 20113 Rhonda Ct Rush, KY 41168  
Telephone (606) 928-8881 Job #

Order Date 2/13/2019  
Status Scheduled  
Scheduled 02/13/19 12:56 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77494408	1486713830	2789		
<b>Description</b>	was called by office high usage knows has leak looked cannot find will we come			
<b>Comment</b>	cust informed about \$15 charge etc....said ok with that has leak on cust side			
<b>Requested By</b>	customer	<b>Assigned To</b>	Les Blanton	<b>Completed By</b> Les Blanton
<b>Start Date</b>	02/13/19 03:24 PM			<b>Completed Date</b> 02/13/19 03:24 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22646**

Account # 0001-12851-002  
Name Dillon, Dwight  
Address 6242 Lakewood Village Dr Cateletsburg, KY 41129  
Telephone (606) 739-5726 Job #

Order Date 2/13/2019  
Status Scheduled  
Scheduled 02/13/19 02:31 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948835	1471563010	6436	0	

Description Between her house and the house that burnt down.

Comment 25-35gpm

Requested By customer

Assigned To

Completed By

Start Date 02/13/19 09:37 AM

Completed Date 02/13/19 09:37 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22650**

Account # 0007-07100-001  
Name Sallie, Evelyn  
Address 706 N State Highway 207 Rush, KY 41163  
Telephone (606) 474-9757 Job #

Order Date 2/14/2019  
Status Scheduled  
Scheduled 02/14/19 09:55 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77494535	1487749610	2814	0	

Description Greg st hwy dept phoned says we have a problem come check

Comment Gave them compression end for setter.

Requested By customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 02/14/19 09:38 AM

Completed Date 02/14/19 09:38 AM

Notes

Signature \_\_\_\_\_

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22654**

Account # 0007-11000-001  
Name McCall, Delmar  
Address 6636 Wilson Creek Rd Grayson, KY 41143  
Telephone (606) 474-8034 Job #

Order Date 2/15/2019  
Status Emergency  
Scheduled 02/15/19 08:12 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38245565	1490139262	2829	0	
Description	Turned off last night due to water leak. Reading 3282 on 2/15/19			
Comment	Usage 45,300 gallons. Found while looking for leaks @ 12:30am			
Requested By	customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	02/15/19 08:14 AM			Completed Date 02/15/19 08:14 AM

Notes





Big Sandy Water District  
**WORK ORDER 22698**

Account # 0013-20100-001  
Name Boyds Fuel Stop School  
Address 20858 Highway 23 Louisa, KY 41230  
Telephone (606) 483-3557 Job #

Order Date 2/19/2019  
Status Scheduled  
Scheduled 02/19/19 11:38 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 85370670	1490488256	4622	0	

Description Regulator leaking - replaced 3gpm.

Comment

Requested By Jim Boyd Assigned To Les Blanton Completed By Les Blanton

Start Date 02/19/19 03:18 PM Completed Date 02/19/19 03:18 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22722**

Account # 0007-13700-002  
Name Davis, Bobby  
Address 773 Fighting Frk Grayson, KY 41143  
Telephone (606) 225-3264 Job #

Order Date 2/25/2019  
Status Scheduled  
Scheduled 02/25/19 11:17 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 75505381	1490187430	2288	0	
Description	Coming up out of the ground right by road.			
Comment	Les worked on this also repaired 3" water line band clamp was loose			
Requested By	customer	Assigned To	Bill, Tommy and Rusty	Completed By Bill, Tommy and Rusty
Start Date	02/25/19 02:06 PM			Completed Date 02/25/19 02:06 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22729**

Account # 0010-00051-001  
Name Blackburn, Egle  
Address 2588 Highway 1496 Loursa, KY 41230  
Telephone (606) 686-2123 Job #

Order Date 2/26/2019  
Status Scheduled  
Scheduled 02/26/19 01:35 PM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38695880	1490148868	4210	0	

Description Contractor hit water line putting in guardrail.

Comment Repaired 3" water line

Requested By Customer Assigned To Bill, Tommy and Rusty Completed By Bill, Tommy and Rusty

Start Date 02/26/19 02:08 PM Completed Date 02/26/19 02:08 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 22791**

Account # 0012-04899-001  
Name Downey, Jessie  
Address 7867 Spankem Branch Rd Louisa, KY 41230  
Telephone (606) 686-3366 Job #

Order Date 3/11/2019  
Status Regular  
Scheduled 03/11/19 09:28 AM  
Order Type Water Leak

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79790222	1490146318	1276	0	
Description	Where it was leaking last night. No leak per Jimmy. Told customer if it			
Comment	continues to let us know.			
Requested By	Customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	03/11/19 12:08 PM			Completed Date 03/11/19 12:08 PM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 22791**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED]

Order Date 3/11/2019  
Status Regular  
Scheduled 03/11/19 09:28 AM  
Order Type Water Leak

Job #

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79790222	1490146318	1276	0	
Description	Where it was leaking last night. No leak per Jimmy. Told customer if it			
Comment	continues to let us know.			
Requested By	Customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	03/11/19 12:08 PM			Completed Date 03/11/19 12:08 PM

Notes

Signature \_\_\_\_\_



**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

- 13. No, we do not have a policy that addresses the process and the length of time it should take for the utility to fix a known or reported leaking water line.**

**James Blanton**

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**14. We purchased (14 years ago) and still own a flow meter and listening device.**

**James Blanton**

Appendix # C

Case #2019-00041

Dated: March 12, 2019

15. Only the operators attend the training seminars for their continuing education hours. If there is a local seminar, we can/will send more employees.

James Blanton

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

16. We do not have a policy, but we do go over the billing register to check customer accounts for low and high usages. Once a month we print zero usages on account for maintenance employees to check for dead meters.

**Teresa Brown**

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**17. We do not produce water, purchase water only.**

**James Blanton**

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

18. We have attached master meter tests and results from the utilities we purchase water from.
- Ashland** – Meter was changed out on 3/25/2019 by Ashland. Guts were replaced Ashland Water has not furnished test results for the previous guts.
  - Kenova** – Unable to provide information at this time.

If we receive any of the above information, we will forward onto you.

**James Blanton**





**Definitive Testing Services**  
Lexington, Kentucky

**Certified Meter Test Results**

Meter Size	Meter MFG	MFG Model	Serial Number	Trans Ponder	BEFORE REPAIR TEST RESULTS				AFTER REPAIR TEST RESULTS				Test/Parts
					High Flow	Med Flow	Low Flow	Avg Test	High Flow	Med Flow	Low Flow	Avg Test	
13"	Sensus	OMNI	72124276	N/A	100.6	NOT RECD	101	100.8					1-Certified by Field Meters Test
2													
3													
4													
5		Meter Reading Before Test:	369492.06										
6		Meter Reading After Test:	369499.00										
7													
8													
9													
10	Comments: Meters meet PSC and AHD requirements												
11	Bug Sandy												
12	Diamond Ridge												
13													
14													
15													

Customer: Rattlesnake Ridge L.L.C. Dist Date Tested: 1.16.17  
 Received By: \_\_\_\_\_ Tested By: W0883 MJK Fall Date: \_\_\_\_\_



**Definitive Testing Services**  
Lexington, Kentucky

**Certified Meter Test Results**

Meter Size	Meter MFG	MFG Model	Serial Number	Trans Poplar	BEFORE REPAIR TEST RESULTS				AFTER REPAIR TEST RESULTS				Test/Parts	
					High Flow	Med Flow	Low Flow	Avg Test	High Flow	Med Flow	Low Flow	Avg Test		
13"	Sensus OMNI	72124276		N/A	100.6	NOT REQ	101	100.8						1-Certified by Field Meters Test
2														
3														
4														
5		Meter Reading Before Test:	369492.06											
6		Meter Reading After Test:	369499.06											
7														
8														
9														
10	Comments: Meter meets PSC and AllRA requirements													
11	By Sandy													
12	Diamond Ridge													
13														
14														
15														

Date Tested: 1-16-17

Tested By: W083 Max Bell

Date

Customer: Pattersons Ridge 2105. Dist

Received By

Page

DATE: 10/10/1950

NAME: [Handwritten Name]

[Handwritten notes]

[Handwritten notes]

[Handwritten notes]

DATE	TOTAL NUMBER OF HOURS										TOTAL NUMBER OF MINUTES									
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
10/10/50																				
10/11/50																				
10/12/50																				
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10/31/50																				



Division of Research  
 Bureau of Labor Statistics  
 U.S. DEPARTMENT OF LABOR

STANDARD FORM NO. 1001

CANNONSBURG WATER DISTRICT

1606 Cannonsburg Road

Ashland, KY 41102

Office: (606) 928-9808

Cell: (606) 694-5482

Fax: (606) 928-4788

[www.cannonsburgwater.com](http://www.cannonsburgwater.com)

Order #	Line #	Part #	Description	Manufacture Date	Serial #	Customer Register ID	Low	Mid	High	Ship Date	Install Date
404380	3	T31XXXG1DAXX	MTR 3 OMNI T2 MNCS/TURB 1GAL PULSE 100G WHL3A AMR	7/28/2016	81892205	74819070	100.1	99.9	100	7/29/2016	8/11/2017

# Large Meter Test Results

**Meter Description:** 3 In. IIP Turb  
**Part Number:** ET4BRWG3SG90  
**Customer Number:** 03576100  
**Customer Name:** NEPTUNE EQUIPMENT CO. - KY  
**Dial:** 100 Gal.  
**Register:** ARB  
**Turb Gear:** 29/25  
**Disk Gear:** 0  
**Serial Number Range:** 70353330 to 70353333

Flow	Accuracy
5	98
8	101.5
30	101
450	98.9

Done

2 of 7

# Large Meter Test Results

Meter Number: 7035484      Test Date: 4/25/14      Meter Description: 4 in. Turb.      Part Number: ECUWVG5840      Dial: 100 Gal.      Registers: ARB      Turb Gear: 30.26      Disk Gear: 44/38  
 Order No: 5897296      Line Number: 1      Date Packed: 4/25/14      Customer Number: 03576100      Customer Name: NEPTUNE EQUIPMENT CO. KY      Serial Number Range: 7035484 to 7035485

Flow	Accuracy
5	101.3
3	100.3
7	99.1
11	98.5
15	98.1
19	98.3
23	99.3
27	99.4
35	99.8
700	99.1



Done

3 of 7

Trial Number: 70448812  
 Test ID: 1092217027  
 Order No: 5288022  
 Line Number: 6  
 Test Date: 9/22/17  
 Date Packed: 9/25/17  
 Meter Description: 1 In III Turb  
 Part Number: 1148RWG5SG90  
 Customer Number: 03528100  
 Customer Name: NEPTUNE EQUIPMENT CO. KY  
 Dial: 100 Gal  
 Register: ARB  
 Turb Gear: 29.25  
 Disk Gear: 0  
 Serial Number Range: 70148812 to 70348812

Flow	Accuracy
5	96.2
8	100.4
30	100.3
450	98.9



Done

4 of 7

## Large Meter Test Results

al Number: 70353330

<b>Test ID:</b> 1010218016	<b>Test Date:</b> 1 2 18	<b>Meter Description:</b> 3 In. HP Turb	<b>Part Number:</b> ET4BRWG3SG90	<b>Dial:</b> 100 Gal	<b>Register:</b> ARB	<b>Turb Gear:</b> 29 25	<b>Disk Gear:</b> 0
<b>Order No:</b> 5291004	<b>Line Number:</b> 1	<b>Date Packed:</b> 1 3 18	<b>Customer Number:</b> 03576100	<b>Customer Name:</b> NEPTUNE EQUIPMENT CO - KY		<b>Serial Number Range:</b> 70353330 to 70353333	

Flow	Accuracy
5	95.2
8	100.7
30	100
450	98.8

y, March 29, 2019

Page 1





Done

5 of 7

## Large Meter Test Results

---

**Number:** 70353331  
**Test ID:** 1010218017      **Test Date:** 12/18      **Meter Description:** 3 In. HP Turb      **Part Number:** ET4RRWG35G90      **Dial:** 100 Gal      **Register:** ARB      **Turb Gear:** 29:25      **Disk Gear:** 0  
**Order No:** S291004      **Line Number:** 3      **Date Packed:** 13/18      **Customer Number:** 01576100      **Customer Name:** NEPTUNE EQUIPMENT CO - KY      **Serial Number Range:** 70353330 to 70353333

Flow	Accuracy
5	95.7
8	100.7
30	100.3
450	99.2

March 29, 2019

Page 1



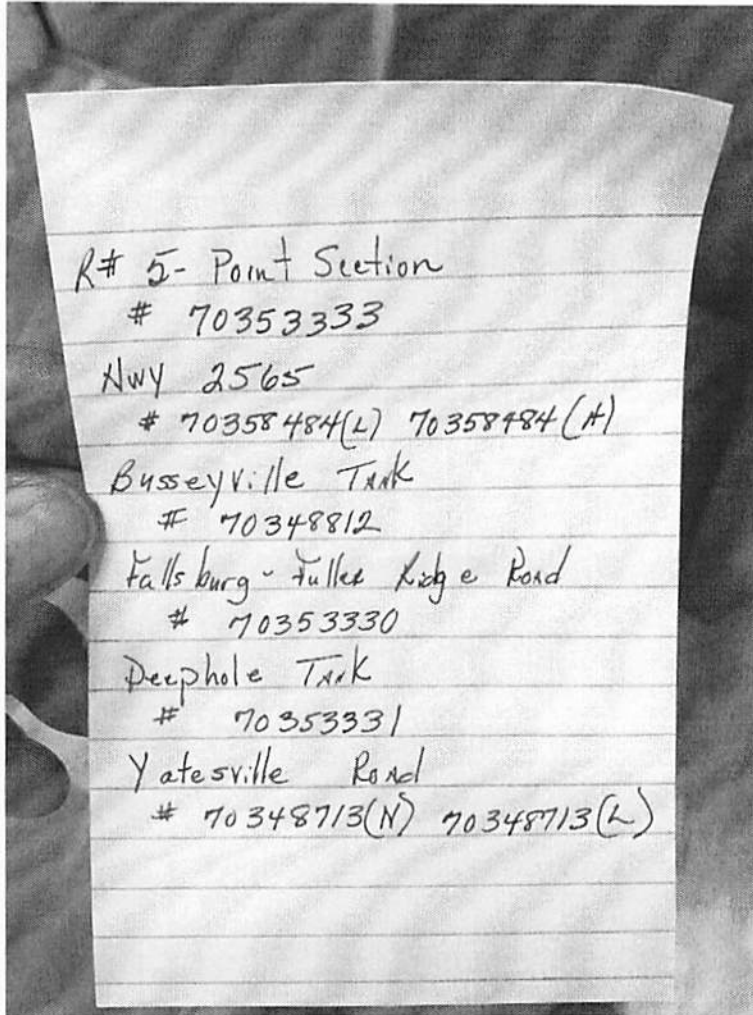
Done

# 6 of 7 Large Meter Test Results

Dial Number: 70348713  
 Test ID: 209217057    Test Date: 9/25/17  
 Order No: S28922    Line Number: 4    Date Packed: 9/26/17  
 Meter Description: 3 In. Tri Flow  
 Part Number: EC3URWQ3SC90  
 Customer Name: NEPTUNE EQUIPMENT CO - KY  
 Register: ARB    Dial: 100 Gal.  
 Turb Gear: 41/36    DIAP Gear: 30/26  
 Serial Number Range: 70348713 to 70348713

Flow	Accuracy
25	99.7
15	101
9	99.7
10	98.3
11	93.7
12	90.5
15	99.3
18	99.2
25	99.5
350	99.7





**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

19. We do not sell to other water companies. All of our 2" or larger meter customers are called and a good time for both parties is set up for the meter test. We do own a portable test meter (Badger) that we use for our meter testing. The 5/8 x 3/4" and 1" household meters are switched out with new or rebuilt meters. We test all meters at our office. If the meter test is good and the electronic head is good, it is put back into service. If the meter test is bad, we rebuild the meter, retest and then put back into service. With the lack of manpower, we can only change out meters when we have time, due to leaks, meter reading and other work orders.

**James Blanton****Appendix # C**

Case #2019-00041

Dated: March 12, 2019

20. We have changed out 390 meters since January 2018.

Bobbi Burton

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**21. Neptune Meters Model T-10 are used.**

**James Blanton**

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**22. We do not use SCADA.**

**James Blanton**

Appendix # C

Case #2019-00041

Dated: March 12, 2019

23. Yes we use Micro-Comm Telemetry within our system.

James Blanton



**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

24. All meters are read monthly, starting on the first working day of the month. After the readings are complete we go back to do rechecks which includes high readings and no readings.

**James Blanton**

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**25. The only training needed for the meter readers is on the handheld that reads the meters. All meter readers can and do know how to work the handhelds.**

**James Blanton**

Appendix # C

Case #2019-00041

Dated: March 12, 2019

26. Yes, we do utilize zone meters. All paperwork is included in the packet.

James Blanton

Dec. 2018

	Yatesville High	Usage	Yatesville Low	Usage	Fullers Ridge	Usage	Deephole Rd	Usage	Par Section	Usage	Busseyville	Usage
1	1237.4	2.3	3812.5	13.0	6221.3	20.6	1735.5	4.8	15835.8	53.3	44152.2	174.5
2		2.3		12.9		20.5		4.8		53.4		174.4
3		2.3		13.0		20.6		4.8		53.3		174.5
4		2.3		12.9		20.5		4.8		53.4		174.4
5	1246.6		3864.3		6311.6		1754.9		16052.3		44850.0	210.4
6												210.4
7												210.4
8												210.4
9		2.5		12.9		19.5		6.6		54.6		210.4
10	1259.3	2.4	39288.5	12.9	6408.9	12.3	1788.2	5.3	16325.1	56.3	45902.3	211.6
11	1266.7	2.6	3941.7	13.8	6486.2	23.3	1793.5	5.9	16386.4	57.6	46113.8	162.7
12	1264.3	2.2	3455.3	12.8	6449.5	26.0	1799.4	4.9	16439.0	52.6	46279.5	148.3
13		2.2		12.8		26.0		4.9		52.6		148.3
14	1268.8	2.8	3980.9	13.1	6501.5	26.8	1809.2	5.0	16544.3	57.4	46576.1	150.1
15		2.8		13.1		26.8		5.1		57.4		150.2
16		2.8		13.1		26.8		5.0		57.4		150.1
17	1277.3	2.2	4020.3	13.3	6582.1	27.6	1824.4	4.6	16716.5	56.2	47021.6	144.9
18		2.3		13.3		27.6		4.0		56.3		145.0
19	1281.8	3.2	4046.9	13.5	6637.3	27.4	1832.4	4.8	16829.0	58.7	47311.5	153.3
20		3.2		13.5		27.4		4.8		58.8		153.3
21		3.2		13.5		27.4		4.8		58.7		153.3
22		3.2		13.5		27.5		4.8		58.8		153.3
23		3.2		13.5		27.4		4.8		58.7		153.3
24		3.2		13.5		27.4		4.8		58.8		153.3
25		3.2		13.5		27.4		4.8		58.7		153.3
26	1304.3	3.0	4141.2	13.7	6829.3	28.3	1865.8	5.5	17240.2	48.4	48384.5	163.5
27	1309.3	1.9	4154.2	12.5	6852.6	25.5	1871.3	5.7	17288.6	60.9	48548.0	145.1
28	1309.2	2.0	4167.4	12.0	6883.1	45.0	1878.7	6.8	17349.5	62.8	48693.1	148.4
29		2.0		12.0		45.0		6.8		62.8		149.0
30		2.0		12.0		45.0		6.8		62.8		148.9
31	1315.1	2.4	42035.2	12.6	7018.1	24.9	1894.0	4.4	17537.9	52.2	49139.9	142.0
	(77.7)	(2.5)	(391.6)	(12.6)	(796.8)	25.7	(163.5)	(5.3)	(1702.1)	(54.9)	(4987.7)	(160.9)

Sp. Kim Branch 12/27/18 233464  
 Avg. 7 days 3335.2  
 12/28/18 258506  
 (25,042)  
 12/31/18 327206  
 (22,900)  
 (27,0)  
 11/9/19 948,200  
 R. H. C. Smith (30.6)

Dec 2018

	Garner	Usage	Middleton's	Usage	Rt 3/Smith	Usage	Quarry Br	Usage	Williams Crk	Usage
1	24262.9	63.7	17376.1	61.6	109153	62.2	13838.8	49.7	641.7	32.5
2		63.7		61.6		62.2		49.6		32.5
3		63.7		61.6		62.2		49.7		32.5
4		63.7		61.6		62.2		49.6		32.5
5	245179	59.6	176225		111642		14037.5		7718	32.0
6		59.6								32.0
7		59.6								32.0
8		59.6								32.0
9		59.6		60.8		62.7		47.0		32.0
10	24816.1	60.7	17926.7	62.9	11477.8	62.5	14272.3	49.3	931.6	32.2
11	24876.8	61.2	17989.6	62.9	11545.3	59.9	14321.6	59.0	962.8	32.1
12	24938.0	62.6	18057.5	49.2	11605.2	64.7	14320.6	52.0	994.9	33.2
13		62.6		49.3		64.7		52.0		33.2
14	25063.2	70.1	18156.0	39.6	11734.6	65.3	14484.6	55.4	1061.3	32.4
15		70.1		39.6		65.3		55.4		32.4
16		70.1		39.6		65.3		55.4		32.4
17	25273.6	67.6	18274.8	33.3	11930.6	65.8	14650.8	57.7	1158.5	29.6
18		67.7		33.3		65.9		57.7		29.6
19	25408.9	73.0	18346.4	38.5	12062.3	68.0	14766.2	72.7	1217.7	36.2
20		73.0		38.5		68.0		72.7		36.3
21		73.0		38.5		68.0		72.7		36.2
22		73.0		38.5		68.0		72.7		36.3
23		73.0		38.5		68.0		72.7		36.2
24		73.0		38.5		68.0		72.7		36.3
25		73.0		38.5		68.0		72.7		36.2
26	25920.2	77.9	18615.8	41.9	12538.1	71.9	15275.2	76.3	1471.5	32.6
27	25998.1	88.6	18657.7	47.3	12610.0	78.0	15351.5	86.5	1504.1	39.3
28	26086.7	67.9	18705.0	36.8	12688.0	65.3	15938.0	70.2	1543.4	31.0
29		67.9		36.9		65.3		70.2		31.0
30		67.9		36.9		65.3		70.2		31.0
31	26290.6	73.2	18815.6	40.0	12883.8	71.8	15648.6	76.3	1636.3	

(2027.7) (65.4) (1439.5) (46.4) (1968.5) 63.5 (1809.8) (58.3) (994.6) (32.1)

	Christie's	Usage	Bowling Dr	Usage	Columbia Gas	Usage	Calgon	Usage	Burnaugh	Usage
1	9401.1	66.2	46342.4	62.4	18414.9	2.0	97755.6	49.8		
2		66.2		69.3		2.0		49.8		
3		66.2		69.4		2.0		49.8		
4		66.2		69.3		2.0		49.8		
5	9666.5		46619.9		18422.9		97954.9			
6										
7										
8										
9		70.0		71.7		2.2		51.6		
10	10016.5	73.0	46978.6	76.4	18434.0	2.3	98212.8	58.3		
11	10089.5	72.0	47055.0	79.4	18436.3	2.1	98271.1	53.5		
12	10161.5	75.4		79.4		2.1		53.5		
13		75.4		79.4		2.1		53.5		
14	10312.4	73.5	47293.3	84.5	18442.8	2.4	98431.6			
15		73.5		84.5		2.4				
16		73.5		84.5		2.4				
17	10533.0	47.0	47546.8	83.5	18450.0	2.7	98523.2	49.3		
18		47.0		83.6		2.7		49.3		
19	10627.0	95.3		83.6		2.7		49.3		
20		95.3		83.5		2.7		49.3		
21		95.3		83.5		2.7		49.3		
22		95.3		83.6		2.7		49.3		
23		95.3		83.5		2.7		49.3		
24		95.3		83.6		2.7		49.0		
25		95.3		83.5		2.7		49.3		
26	11294.0	74.5	48298.9	116.5	18474.3	2.8	99017.3	52.3		
27	11368.5	90.5	48415.4	68.8	18478.1	2.4	99026.6	42.5		
28	11458.0	76.5	48484.2	83.6	18480.5	2.9	99118.8	46.0		
29		70.5		83.6		2.9		45.9		
30		70.5		83.6		2.9		46.0		
31	11670.5	76.5	48755.2	84.4	18489.3	2.8	99256.2	52.3		

(2269.4) (73.2) (2392.8) (77.2) (74.4) (2.4) (1501.1) (48.4)

January 2019

	Garner	Usage	Middleton's	Usage	Rt 3/Smith	Usage	Quarry Br	Usage	Williams Crk	Usage
1	26363.7	73.2	18855.5	40.1	12955.7	71.8	15719.2	70.4	1670.9	34.3
2		73.2		40.0	13027.5	71.9	15789.6	70.3	1705.2	34.3
3		73.2		40.1	13099.4	71.8	15859.9	70.4	1739.5	34.3
4	26583.3	72.5	18975.8	38.3	13171.2	71.8	15930.3	70.3	1773.8	34.3
5		72.5		38.3	13243.0	71.9	16000.6	70.4	1808.1	34.3
6		72.5		38.3		71.8	16071.0	70.3	1842.4	34.3
7	26800.8	71.7	19090.7	39.6	13386.7	69.9	16141.3	64.2	1876.7	39.1
8		71.7		39.6		69.9		64.2		39.1
9		71.7		39.6		69.9		64.2		39.1
10	27016.0	70.6	19209.7	35.4	13596.5	76.6	16333.9	63.5	1994.1	30.9
11	27086.6	75.1	19245.1	36.5	13673.1	70.1	16397.4	64.8	2025.0	34.3
12		75.1		36.5		70.1		64.8		34.3
13		75.1		36.5		70.1		64.8		34.3
14	27312.0	71.0	19354.7	171.6	13883.5	76.7	16591.9	63.1	2128.0	30.6
15	27383.0	73.2	19526.3	163.2	13960.2	72.6	16655.0	72.8	2158.6	33.1
16		73.2		163.2		72.6		72.8		33.1
17		73.2		163.2		72.6		72.8		33.1
18		73.2		163.2		72.6		72.8		33.1
19		73.2		163.2		72.6		72.8		33.1
20		73.2		163.2		72.6		72.8		33.1
21	27822.7	86.4	20505.5	52.2	14395.9	83.5	17091.7	83.1	2357.7	35.8
22	27909.1	85.2	20557.7	64.2	14479.4	78.1	17174.8	82.5	2393.5	31.3
23	27994.3	82.5	20621.9	53.0	14587.5	76.5	17262.3	82.1	2424.8	29.6
24	28076.8	88.9	20674.9	53.2	14634.0	80.1	17349.4	89.9	2454.4	32.5
25	28165.7	94.0	20728.1	54.5	14714.1	82.1	17439.3	79.7	2486.9	34.3
26		94.0		54.5		82.1		79.7		34.3
27		94.0	<del>20891.8</del>	54.5		82.1		79.7		34.3
28	28447.8	66.6	20891.8	51.6	14960.6	71.6	17678.5	75.4	2589.8	31.7
29	28514.4		20943.4		15032.2		17753.9		2621.5	
30		70.8		52.7		71.6		85.2		36.2
31	28655.9	67.0	21048.8	61.0	15175.3	66.7	17924.3	84.1	2693.8	34.3

(2,292.2) (73.9) (2,193.3) (70.7) (2,219.6) (71.6) (2,205.1) (71.1) (1,022.9) (33.0)

	Christie's	Usage	Bowling Dr	Usage	Columbia Gas	Usage	Calgon	Usage	Burnaugh	Usage
1	11747.0	76.5	48819.7	84.4	18491.8	2.8	99309.3	52.3		
2		76.5		84.4		2.8		52.3		
3	11906.0	76.5	48988.5	84.4	18597.4	2.8	99413.9	52.3		
4	119765	72.8		84.4	18500.2	2.8	99466.2	52.3		
5		72.8	49157.3	84.4		2.8		52.3		
6		72.8		84.4		2.8		52.3		
7	12210.0	80.1	49326.1	82.7	18508.6	2.4	99623.1	53.4		
8		80.1		82.7		2.4		53.4		
9		80.1		82.7		2.4		53.4		
10	12450.5	74.5	49574.2	81.6	18516.0	2.6	99783.5	46.9		
11	12525.0	79.0	49655.8	81.8	18518.6	2.4	99830.4	41.7		
12		79.0		81.8		2.4		41.7		
13		79.0		81.8		2.4		41.7		
14	12762.0	73.0	49901.2	80.4	18525.8	2.4	99955.6	67.8		
15	12835.0	75.7	49981.6	84.1	18528.2	2.0	10006037	46.0		
16		75.7		84.1		2.0		46.0		
17		75.7		84.1		2.0		46.0		
18		75.7		84.1	18534.4	3.1	10000144	56.7		
19		75.7		84.1		3.1		56.7		
20		75.7		84.1		3.1		56.7		
21	13289.5	92.0	50486.4	102.3	18543.7	3.6	00299.4	53.2		
22	13371.5	94.5	50588.7	102.7	18547.3	4.1	352.6	51.2		
23	13466.0	90.0	50692.4	89.8	18551.4	3.5	403.8	50.1		
24	13556.0	90.0	50782.2	82.8	18554.9	4.3	453.9	57.9		
25	13646.0	86.7	50865.0	86.1	18559.1	3.4	511.8	52.4		
26		86.7		86.1		3.4		52.4		
27	13888.2	82.4	51123.3	86.1	18569.5	3.4	669.1	52.4		
28	363.8	85.6	51123.3	85.3	18569.5	4.2	1669.1	54.6		
29	121.9		51208.6		18573.7		723.7			
30		88.5		91.0		5.2		55.6		
31	2988	94.4	51390.6	75.0	18584.1	5.8	834.8	55.9		

(2,440.0) (78.7) (2,570.9) (82.9) (92.3) (3.0) (1,988.1) (64.0)



Jan 2019

	Spankern Usage	Yates High Usage	Yates Low Usage	Fullers Usage	Deephole Usage	Pt. Section Usage	Bussey Usage							
1	354.3	27.0	4216.2	12.6	1317.5	2.5	7013.1	24.9	1902.9	4.5	17597.1	59.3	49301.5	162.0
2		27.0		12.6		2.4		24.9		4.5		59.2		162.0
3		27.0		12.6		2.5		24.9		4.5		59.3		162.0
4		27.0		12.6		2.4		24.9		4.4		59.2		162.0
5		27.0		12.6		2.5		24.9		4.5		59.3		162.0
6		27.0		12.6		2.4		24.9		4.4		59.2		162.0
7	516.3	22.6	4291.8	12.6	1332.2	2.2	7192.5	20.3	1929.6	4.7	17952.6	61.5	50273.5	146.0
8		22.6		12.6		2.2		20.3		4.7		61.5		146.0
9		22.6		12.4		2.2		20.3		4.7		61.5		146.0
10	584.3	22.1	4329.8	12.8	1339.8	2.7	7253.4	14.7	1943.8	4.9	19137.3	43.8	50711.5	141.0
11	606.4		4342.6		1341.5		7268.1		1948.7		18181.1		50852.5	
12														
13		24.5		13.1		3.1		17.7		5.5		62.2		155.9
14	679.8	23.1	4381.8	12.5	1350.8	1.7	7321.2	20.6	1965.2	4.7	18367.7	59.0	51320.2	158.0
15	702.9		4394.3		1352.5		7341.8		1969.9		18426.7	63.2	51478.2	
16												63.2		
17												63.2		
18												63.2		
19												63.2		
20		17.5		12.5		2.2		19.0		5.0		63.2		165.4
21	808.1	16.1	4469.6	13.4	1366.2	3.0	7456.3	22.6	2000.0	4.9		63.2	52471.1	178.8
22	824.2	21.4	4483.1	12.8	1369.2	2.0	7478.9	24.4	2004.9	9.6	18865.9	68.3	52649.9	188.1
23	845.6	21.4	4495.9	12.6	1371.2	1.8	7503.3	19.0	2014.5	4.4	18937.2	65.0	52838.0	172.8
24	867.0	21.1	4508.5	12.8	1378.9	2.4	7522.3	13.8	2019.2	5.3	19002.2	70.4	53015.8	172.9
25	888.1	22.5	4521.3	13.1	1375.4	2.6	7535.1	19.1	2024.5	5.1	19072.6	67.9	53193.7	188.1
26		22.5		13.1		2.6		19.1		5.1		67.9		188.1
27		22.5		13.1		2.6		19.1		5.1		67.9		188.1
28	955.8	21.2	4560.8	12.4	1383.2	1.7	7592.5	25.6	2037.8	3.5	19276.3	52.4	53758.2	167.5
29	977.0		4573.2		1384.9		7618.1		2043.3		19328.9		53925.7	
30		23.8		13.6		2.7		21.1		4.4		81.3		187.4
31	1024.5	22.2	4600.3	14.1	1390.2	3.9	7660.3	33.1	2052.2	4.3	19491.4	74.1	54300.5	184.4

January 2019

December 11

Bowling Drive  
01-00051-000 thru 01-04251-999  
01-06151-000 thru 01-07251-999  
01-08001-000 thru 01-15601-999  
03-00051-000 thru 03-00201-999  
03-02501-000 thru 03-04801-999

Usage  
203,400  
65,500  
429,900  
13,300  
156,200  
Total 868,300

Smith's Route 3  
10-13550-000 thru 10-13600-999  
11-00050-000 thru 11-01650-999  
11-01750-000 thru 11-04700-999  
11-04850-000 thru 11-14700-999

Usage  
7,100  
114,200  
165,500  
591,200  
Total 878,000

Friendship  
04-02450-000 thru 04-10900-999  
04-00050-000 thru 04-00850-999  
05-16200-000 thru 05-16850-999  
05-24700-000 thru 05-26700-999

Usage  
543,500  
43,100  
21,700  
197,900  
Total 806,200

Yatesville  
10-05100-000  
10-08850-999

Total 286,100

Columbia Gas  
01-04301-000 thru 01-06101-999  
01-07301-000 thru 01-07951-999  
02-00000-000 thru 02-00300-999

Usage  
98,900  
21,200  
12,500  
Total 132,500

Fullers Ridge  
13-00000-000  
13-99999-999

Total 703,100

Buchanan  
09-01250-000 thru 09-06420-999

Usage  
680,100

Deephole Rd  
14-00000-000  
14-99999-999

Total 187,500

Garner Hill  
05-00000-000 thru 05-16150-999

Usage  
1,088,700

Point Section  
20-00000-000  
20-14449-999

Total 1,060,900

Middletons  
05-21000-000 thru 05-24690-999

Usage  
622,300

Highway 2565  
20-14450-000  
20-15500-999

Total 120,700

11-01700-000 thru 11-01715-999

Usage  
5,800  
Total 628,100

Quarry Branch  
09-06450-000 thru 09-10500-999  
10-00000-000 thru 10-04900-999  
10-08900-000 thru 10-13375-999  
11-04750-000 thru 11-04800-999

Usage  
248,200  
482,000  
300,500  
3,000  
Total 1,033,700

Busseyville  
20-15501-000  
23-99999-999

Total 3,699,100

Christies Flow Meter  
07-00100-000 thru 07-13550-999  
07-13800-000 thru 07-14900-999  
08-00050-000 thru 08-00700-999

Total

Usage  
835,500  
75,700  
62,900  
974,100

Williams Creek Flow Meter  
07-13600-000 thru 07-13750-999  
08-00750-000 thru 08-11150-999

Total

Usage  
6,500  
654,000  
660,500

Books 1-4, 5

7,831,500

Book 9

988,400

Book 10

802,900

Book 11

879,700

Total

10,502,500

Book 12

319,500

Books 6-8

2,006,100

Louisa

6,057,400

GRAND TOTAL

18,885,500

Kenova 11,194,700

Ashland 10,012,000

Cannonsburg 4,979,600

Rattlesnake 948,200

Louisa 8,134,900

January Usage

Bowling Drive  
 01-00051-000 thru 01-04251-999  
 01-06151-000 thru 01-07251-999  
 01-08001-000 thru 01-15601-999  
 03-00051-000 thru 03-00201-999  
 03-02501-000 thru 03-04801-999

Usage  
213,500  
54,000  
402,600  
12,300  
165,100  
 Total 852,500

Smith's Route 3  
 10-13550-000 thru 10-13600-999  
 11-00050-000 thru 11-01650-999  
 11-01750-000 thru 11-04700-999  
 11-04850-000 thru 11-14700-999

Usage  
8,900  
121,500  
197,900  
618,800  
 Total 947,000

Friendship  
 04-02450-000 thru 04-10900-999  
 04-00050-000 thru 04-00850-999  
 05-16200-000 thru 05-16850-999  
 05-24700-000 thru 05-26700-999

Usage  
166,100  
44,200  
31,200  
191,400  
 Total 932,900

Yatesville  
 10-05100-000  
 10-08850-999

Total 321,900

Columbia Gas  
 01-04301-000 thru 01-06101-999  
 01-07301-000 thru 01-07951-999  
 02-00000-000 thru 02-00300-999

Usage  
94,500  
20,900  
20,100  
 Total 136,000

Fullers Ridge  
 13-00000-000  
 13-99999-999

Total 537,000

Buchanan  
 09-01250-000 thru 09-06420-999

Usage  
418,700

Deephole Rd  
 14-00000-000  
 14-99999-999

Total 180,300

Garner Hill  
 05-00000-000 thru 05-16150-999

Usage  
1,146,500

Point Section  
 20-00000-000  
 20-14449-999

Total 1,240,800

Middletons  
 05-21000-000 thru 05-24690-999  
 11-01700-000 thru 11-01715-999

Usage  
1,105,100  
116,900  
 Total 1,622,000

Highway 2565  
 20-14450-000  
 20-15500-999

Total 153,400

Quarry Branch  
 09-06450-000 thru 09-10500-999  
 10-00000-000 thru 10-04900-999  
 10-08900-000 thru 10-13375-999  
 11-04750-000 thru 11-04800-999

Usage  
241,900  
473,000  
313,200  
4,300  
 Total 1,032,400

Busseyville  
 20-15501-000  
 23-99999-999

Total 3,192,400

Christies Flow Meter  
 07-00100-000 thru 07-13550-999  
 07-13800-000 thru 07-14900-999  
 08-00050-000 thru 08-00700-999

Usage  
912,100  
45,300  
70,400  
 Total

Williams Creek Flow Meter  
 07-13600-000 thru 07-13750-999  
 08-00750-000 thru 08-11150-999

Usage  
5,100  
112,700  
 Total

Books 1-4, 5

8,941,600

Book 9

721,600

Book 10

820,100

Book 11

959,300

Total

11,442,600

Book 12

367,400

Books 6-8

2,226,600

Louisa

5,625,800

GRAND TOTAL

19,662,400

Kennedy 12,599,100  
 Rattlesnake 801,400  
 Cannonburg 4,240,600  
 Ashland 11,470,250

Louisa 816,100  
 37,353,450  
 2,000,000  
 17,651,050

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**27. We do not use a hydraulic model to evaluate the pressure zones and flow in the utility's distribution system.**

**James Blanton**

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**28. Yes the Maintenance Supervisor reports the water loss reduction efforts to the water utility's board of commissioners. The water loss is reported at every monthly meeting. All reports are included in this packet.**

**Teresa Brown**

**Bobbi Burton**

## Employees Looking for Leaks

2018 Date	Area	Hrs.	Employees
1-Jan	Rush	4	1
3-Jan	Cunningham Hill	8 1/2	3
5-Jan	Bolts Fork	2 1/2	2
6-Jan	None specified	9	4
7-Jan	Quarry Branch	9	4
9-Jan	Rush (Shawhan Ln)	3	2
10-Jan	Bolts Fork	3 1/2	2
12-Jan	Raven Rock	4	2
15-Jan	Bolts Fork	5 1/2	4
17-Jan	Bowling Drive	5 1/2	6
18-Jan	Cunningham Hill	4	4
20-Jan	St. Hwy 773	5 1/2	3
21-Jan	Shop Br	6 1/2	2
30-Jan	Bolts Fork	3 1/2	1
12-Feb	Garner, Middleton, Route 3	2 1/2	5
15-Feb	Rush	2	2
17-Feb	Morgans Crk	11	4
18-Feb	Yatesville	9 1/2	3
22-Feb	4-Mile Rd	3 1/2	4
23-Feb	Donithon	4 1/2	4
	Alley Br	1	3
25-Feb	Cunningham Hill	2	2
26-Feb	Gamer	2	3
27-Feb	Brushy	2	2
	Arland Delong	2	3
	Gamer	1	2
28-Feb	Arland Delong	3 1/2	4
6-Mar	Bowling Drive	3	4
	Buchanan	1 1/2	3
7-Mar	Quarry Branch	2	2
8-Mar	Rush	3	1
9-Mar	Bowling Drive	2 1/2	2
10-Mar	Cunningham Hill/Quarry Br	2	3
14-Mar	Donithon	2 1/2	4
20-Mar	None specified	5 3/4	1
21-Mar	Bowling Drive	3	3
22-Mar	Wilber Rd	5 1/2	1
23-Mar	Wilber Rd	4 1/4	1
26-Mar	Arland Delong	6	4
27-Mar	Gamer	6	4
29-Mar	Donithon	2 1/2	4
30-Mar	Fullers Ridge	3	3
2-Apr	Highway 2565	3 1/2	2
3-Apr	Bowling Drive	4	2
5-Apr	Rush Hill	3	3
10-Apr	Garner & Rt 60	2	6
12-Apr	Cedgap	4	5
15-Apr	Cunningham Hill	2	2



Date	Area	Hours	Employees
16-Apr	Quarry Br/Cunningham Hill	4	5
23-Apr	Blaine Creek	1 1/2	2
25-Apr	Arland Delong	7 1/2	4
26-Apr	Arland Delong	4	5
7-May	Arland Delong	4 1/2	3
22-May	Highway 1690	8	3
	Highway 1690	3 1/2	3
3-Jun	Route 60	4 1/2	3
4-Jun	Route 60	2	2
5-Jun	Blevins Fork	3 1/2	2
6-Jun	Bowling Drive	2	3
11-Jun	Garner	1	4
15-Jun	Route 3	1	2
22-Jun	Route 60	1	1
3-Jul	S Highway 3	2 1/2	3
6-Jul	Bowling Drive	1 1/2	1
10-Jul	Bowling Drive	1	3
	Rush	1/2	1
13-Jul	Arland Delong	1 1/2	3
26-Jul	Middleton	3 1/2	5
27-Jul	Route 3	1/2	4
30-Jul	Bowling Drive	1 1/2	1
	Columbia Gas	2 1/2	3
31-Jul	Alley Br	3	3
6-Aug	Arland Delong	5 1/2	4
10-Aug	Bolts Fork	1 1/2	3
	Gillum Br	1	2
16-Aug	Bowling Drive	5 1/2	1
18-Aug	State Route 3	2 1/2	3
23-Aug	Highway 23	2 1/2	1
24-Aug	State Hwy 773	1	2
9-Sep	Raven Rock	2	4
9-Sep	Durbin Rd	2	5
10-Sep	Raven Rock	4	5
11-Sep	Blaine Creek	3 1/2	5
12-Sep	Cunningham Hill	2 1/2	3
14-Sep	Cunningham Hill	3	4
18-Sep	Cunningham Hill	3	4
19-Sep	Cunningham Hill	3 1/2	3
24-Sep	Long Branch	1	4
4-Oct	Cunningham Hill	3	5
5-Oct	Arland Delong	2	5
16-Nov	Route 60	4	6
16-Nov	Rush	2 1/2	4
20-Nov	Route 60	2 1/2	2
22-Nov	Hwy 828 / Route 1	4	4
23-Nov	Spankem Br	6	2
23-Nov	Route 1	6	2
26-Nov	State Hwy 773	1	3
26-Nov	Spankem Br	1 1/2	4

<b>Date</b>	<b>Area</b>	<b>Hours</b>	<b>Employees</b>
28-Nov	Long Branch	1 1/2	6
29-Nov	Long Branch	1 1/2	4
30-Nov	Long Branch	2 1/2	3
4-Dec	Long Branch	2	3
10-Dec	Long Branch	1	3
11-Dec	Cedgap	2 1/2	3
12-Dec	Arland Delong	6	4
	Long Branch	2	1
17-Dec	Jerry Riffe Rdg	4	3
	Spankem Br	4 1/2	3
18-Dec	Spankem Br	4	3
21-Dec	Rush	2	4
28-Dec	Garner	2	3
30-Dec	Fullers Ridge	6	3

<b>Date</b>	<b>Area</b>	<b>Hours</b>	<b>Employees</b>
28-Nov	Long Branch	1 1/2	6
29-Nov	Long Branch	1 1/2	4
30-Nov	Long Branch	2 1/2	3
4-Dec	Long Branch	2	3
10-Dec	Long Branch	1	3
11-Dec	Cedgap	2 1/2	3
12-Dec	Arland Delong	6	4
	Long Branch	2	1
17-Dec	Jerry Riffe Rdg	4	3
	Spankem Br	4 1/2	3
18-Dec	Spankem Br	4	3
21-Dec	Rush	2	4
28-Dec	Garner	2	3
30-Dec	Fullers Ridge	6	3

2019

Date	Area	Hours	Employees
2-Jan	Elk Lane	3 1/2	6
	Spankem Branch	3 1/2	2
9-Jan	Highway 707	2	2
	Rush	3	2
10-Jan	Buchanan	7	2
15-Jan	Callahan, Silver Run		
	Dog Fork, Alley Branch	1 1/2	2
16-Jan	Spankem Branch	2	3
16-Jan	Quarry Branch	2 1/2	2
18-Jan	Highway 23	2	4
21-Jan	Cedgap	3 1/2	3
21-Jan	Glancy Frk / Katy Br	5 1/2	3
22-Jan	Buchanan / Deephole	5	6
23-Jan	Quarry Branch	3	5
24-Jan	Route 3	2	5
24-Jan	Christies	7 1/2	1
	Spankem Branch	3	6
25-Jan	Bowling Dr / Cunningham Hill	8	5
26-Jan	Bowling Dr	6	4
27-Jan	Christies	4	2
28-Jan	Wilson Creek	3 1/2	5
28-Jan	US 60	2	4
29-Jan	Quarry Branch	6	2
	Highway 1496	4	5
	Highway 23	4	3
	Wilson Creek	3	3
30-Jan	US 60 / Bowling Dr	8	6
31-Jan	Bear Creek	6	6
9-Feb	Quarry Branch	4	3
10-Feb	Middletons	1	4
12-Feb	Quarry Branch	4	4
14-Feb	Christies	3	6
19-Feb	Louisa	3	1
20-Feb	Buchanan	7	4
23-Feb	Point Section	10	4
28-Feb	Seedtick	2	1
1-Mar	Route 3	1	1
4-Mar	Spankem Branch	2	3
8-Mar	Spankem Branch	1 1/2	2
9-Mar	Blaine Creek	2	5
10-Mar	Highway 3399	5 1/2	4

BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF JANUARY 25, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, January 25, 2018. The meeting was called to order by Paul Thomas, Chairman, at 9:05 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

Paul Thomas

Charles Shockey

Bill Haran

Larry Shockey

David Salisbury

OTHERS:

David Blair-BSWD

Teresa Brown-BSWD

Roger Hall-Attorney

Joe Sisler-Sisler-Maggard Engineering

MINUTES APPROVED

The minutes of the December 20, 2017 regular meeting were approved as mailed. The motion was made by David Salisbury, seconded by Larry Shockey. Motion carried.

BILLS

Motion made by David Salisbury, seconded by Charles Shockey, to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by Charles Shockey, seconded by Larry Shockey, to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by Charles Shockey, seconded by Larry Shockey, to acknowledge water loss report. Motion carried.

Motion made by Bill Haran, seconded by Charles Shockey, to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

OLD BUSINESS

Phase V—motion made by David Salisbury, second by Charlie Shockey to approve pay requests from Sisler-Maggard (Cunningham Hill) for \$661.50, Sisler Maggard (digitize blueprints) for \$485.00. Motion carried.

Highway 2565—complete, except for tie-in to Louisa. Joe called highway department said they don't know when they will complete.

Cunningham Hill—motion made by Larry Shockey, seconded by Charlie Shockey authorizing Joe Sisler to order pump from Straeffer Pump for \$18500.00 Motion carried.

NEW BUSINESS

Motion made by Bill Hardin, seconded by Larry Shockey to go into executive session for personnel reasons. Motion carried.

Motion made by Larry Shockey, seconded by Charlie Shockey to come out of executive session with no action taken. Motion carried.

Motion made by Bill Hardin, seconded by Charlie Shockey to hire William Brooks as a full-time employee with benefits and 3 weeks paid vacation. Motion carried.

Motion made by Charlie Shockey, seconded by Larry Shockey to put James Blanton's phone on answering machine for after hour calls. Motion carried.

Motion made by Bill Hardin, seconded by Larry Shockey to leave commissioner positions as they are:  
Paul Thomas—Chairman  
Bill Hardin—Vice-Chairman  
David Salisbury—Secretary  
Charlie Shockey—Treasurer  
Larry Shockey—Asst. Secretary & Asst. Treasurer

Motion made by David Salisbury, seconded by Charlie Shockey to adjourn meeting at 10:20 a.m. Motion carried.

BY: [Signature]  
David Salisbury, Secretary  
Big Sandy Water District

Date Approved: 2-21-2018

BY: [Signature]  
Paul Thomas, Chairman  
Big Sandy Water District

BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF FEBRUARY 21, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, February 21, 2018. The meeting was called to order by [redacted] Thomas, Chairman, at 9:05 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

[redacted] Thomas  
[redacted] Charles Shockey  
[redacted] Bill Hardin  
[redacted] Larry Shockey  
[redacted] David Salisbury

OTHERS:

[redacted] David Blair-BSWD  
[redacted] Teresa Brown-BSWD  
[redacted] Joe Sister-Sister Standard Engineering

MINUTES APPROVED

The minutes of the January 25, 2018 regular meeting were approved as mailed. The motion was made by [redacted] David Salisbury, seconded by [redacted] Charlie Shockey. Motion carried.

BILLS

Motion made by [redacted] David Salisbury, seconded by [redacted] Charlie Shockey to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by [redacted] Bill Hardin, seconded by [redacted] Larry Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by [redacted] Charlie Shockey, seconded by [redacted] Larry Shockey to acknowledge water loss report. Motion carried.

Motion made by [redacted] Bill Hardin, seconded by [redacted] Larry Shockey to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

OLD BUSINESS

Phase V—motion made by [redacted], second by [redacted] to approve pay requests from Sisler-Maggard (Phase V) for \$4445.50, Sisler Maggard (digitize blueprints) for \$1577.68. Motion carried.

Highway 2565—complete, except for tie-in to Louisa.

Cunningham Hill—pump should be shipped on 13<sup>th</sup> of March.

NEW BUSINESS

Motion made by [redacted], seconded by [redacted] to declare 2001 Chevrolet as surplus and advertise for bids. Motion carried.

Motion made by [redacted], seconded by [redacted] to get quotes and purchase ¾ ton, 4-wheel drive, regular cab pickup. Motion carried.

Motion made by [redacted], seconded by [redacted] to purchase hydrant for Rosie's for \$3050.82. Motion carried.

Discussed [redacted] on Rebecca Lynn, they have had pressure problems on and off since December 2017. They have their own pump, BSWD has had the same pressure there for the last 3 years, but their pump tore up and they got a new one.

Motion made by [redacted], seconded by [redacted] to go into executive session for personnel reasons. Motion carried.

Motion made by [redacted], seconded by [redacted] to come out of executive session with no action taken. Motion carried.

Motion made by [redacted], seconded by [redacted] to adjourn meeting at 10:30 a.m. Motion carried.

BY: [redacted]  
[redacted] Secretary  
Big Sandy Water District

Date Approved: 3/21/18

BY: [redacted]  
[redacted] Chairman  
Big Sandy Water District



BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF MARCH 21, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, March 21, 2018. The meeting was called to order by [REDACTED], Chairman, at 9:00 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

[REDACTED]  
[REDACTED] Thomas  
[REDACTED] Charles Shockey  
[REDACTED] Bill Hardin  
[REDACTED] Larry Shockey  
[REDACTED] David Salisbury

OTHERS:

[REDACTED]-BSWD  
[REDACTED] Attorney

MINUTES APPROVED

The minutes of the February 21, 2018 regular meeting were approved as mailed. The motion was made by [REDACTED], seconded by [REDACTED]. Motion carried.

BILLS

Motion made by [REDACTED], seconded by [REDACTED] to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by [REDACTED], seconded by [REDACTED] to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by [REDACTED] seconded by [REDACTED] to acknowledge water loss report. Motion carried.

Motion made by [REDACTED] seconded by [REDACTED] to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

OLD BUSINESS

Phase V—still waiting

Highway 2565—complete, except for tie-in to Louisa.

Cunningham Hill—motion made by [redacted] seconded by [redacted] to approve pay request from Sisler-Maggard Engineering for \$1310.00. Motion carried.

NEW BUSINESS

Need to advertise for state bids on new ¾ ton, 4-wheel drive, regular cab pickup.

[redacted] Charlie Shockey, Bill Hardin and Larry Shockey will be attending training (PSC) on 17<sup>th</sup> of April.

Motion made by [redacted] Paul Thomas, seconded by [redacted] Charlie Shockey to go into executive session for personnel reasons. Motion carried.

Motion made by [redacted] Charlie Shockey, seconded by [redacted] Larry Shockey to come out of executive session with no action taken. Motion carried.

Motion made by [redacted] David Salisbury, seconded by [redacted] Larry Shockey to adjourn meeting at 10:15 a.m. Motion carried.

BY: [redacted signature]  
[redacted] David Salisbury, Secretary  
Big Sandy Water District

Date Approved: 4-18-2018

BY: [redacted signature]  
[redacted] Paul Thomas, Chairman  
Big Sandy Water District

[REDACTED]

BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

[REDACTED]

MINUTES OF APRIL 18, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, April 18, 2018. The meeting was called to order by Paul Thomas, Chairman, at 9:10 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

Paul Thomas  
Charles Shockey  
Bill Hardin  
Larry Shockey  
David Salisbury

OTHERS:

David Blair-BSWD  
Teresa Brown-BSWD  
Roger Hall-Attorney  
De Siste-Sister-Maggard Engineering

MINUTES APPROVED

The minutes of the March 21, 2018 regular meeting were approved as mailed. The motion was made by David Salisbury, seconded by Larry Shockey. Motion carried.

BILLS

Motion made by David Salisbury, seconded by Charlie Shockey to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by Larry Shockey, seconded by Charlie Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by Larry Shockey, seconded by David Salisbury to acknowledge water loss report. Motion carried.

Motion made by Bill Hardin, seconded by Charlie Shockey to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

OLD BUSINESS

Phase V—mapping has been approved. Motion made by [redacted] seconded by [redacted] to approve pay request from Sisler-Maggard Engineering for \$1672.50. Motion carried.

Highway 2565—complete, except for tie-in to Louisa.

Cunningham Hill—motion made by [redacted], seconded by [redacted] to approve pay request from Sisler-Maggard Engineering for \$960.00. Motion carried. Discussed changing location of pump station.

Received one bid for new truck from [redacted] for a Ford F-250 for \$46,889.00. No action taken. Motion made by [redacted], seconded by [redacted] to rebid as advertised before. Motion carried.

Received 4 bids on 2001 Chevrolet:	[redacted] Bill Stevens	\$675.00	[redacted]
	[redacted] Les Blanton	\$500.00	[redacted]
	[redacted] Charlie Smith	\$800.00	[redacted]
	[redacted] David Grubb	\$1210.00	[redacted]

Motion made by [redacted] seconded by [redacted] to accept bid for \$1210.00 from David Grubb. Motion carried.

NEW BUSINESS

[redacted] Bill Stevens last day was April 13<sup>th</sup>. Need to interview perspective employee from applications we have received. New employee will need to have background check and a drug test. New employee will be hired at \$12.00 an hour.

Motion made by [redacted] seconded by [redacted] to make Les Blanton's pay \$13.50 an hour. Motion carried.

Motion made by [redacted] seconded by [redacted] to adjourn meeting at 10:45 a.m. Motion carried.

BY: [redacted]  
David Salisbury, Secretary  
Big Sandy Water District

Date Approved: 5-16-2018

BY: [redacted]  
Paul Thomas, Chairman  
Big Sandy Water District

BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF MAY 16, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, *May 14*, 2018. The meeting was called to order by *Paul Thomas* Chairman, at 9:05 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

*Paul Thomas*  
*Charles Shockey*  
*Bill Hardin*  
*Larry Shockey*  
*David Salisbury*

OTHERS:

*David Blair*-BSWD  
*Teresa Brown*-BSWD  
*Roger Hall* Attorney  
*Joe Sisler-Sisler-Vanguard Engineering*

MINUTES APPROVED

The minutes of the April 18, 2018 regular meeting were approved as mailed. The motion was made by *David Salisbury*, seconded by *Larry Shockey*. Motion carried.

BILLS

Motion made by *David Salisbury*, seconded by *Charlie Shockey* to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by *Bill Hardin*, seconded by *Larry Shockey* to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by *Bill Hardin* seconded by *Charlie Shockey* to acknowledge water loss report. Motion carried.

Motion made by *Bill Hardin*, seconded by *Larry Shockey* to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

OLD BUSINESS

Phase V—money should be available October 1<sup>st</sup>, 2018. Motion made by Charlie Shockey, seconded by Larry Shockey to approve pay request from Sisler-Maggard Engineering for \$2452.50. Motion carried.

Highway 2565—complete, except for tie-in to Louisa.

Cunningham Hill—motion made by Larry Shockey, seconded by Bill Hardin to approve pay request from Sisler-Maggard Engineering for \$430.00. Motion carried. Motion made by Bill Hardin, seconded by Charlie Shockey giving Roger Hall authorization to write up perpetual easement for Cunningham Hill Tank. Motion carried.

It will be September before we can order a truck.

NEW BUSINESS

Motion made by Charlie Shockey, seconded by Larry Shockey to renew insurance with Blue Cross Blue Shield with employee paying 13% of policy. Motion carried.

David Blair informed commissioners he hired Todd Hackett at \$12.00 an hour and he started work May 7, 2018.

Motion made by David Salisbury, seconded by Charlie Shockey to adjourn meeting at 10:20 a.m. Motion carried.

BY: [Redacted Signature]  
David Salisbury, Secretary  
Big Sandy Water District

Date Approved: 6-20-2018

BY: [Redacted Signature]  
Paul Thomas, Chairman  
Big Sandy Water District

[REDACTED] [REDACTED]  
BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF JUNE 20, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, June 20, 2018. The meeting was called to order by Paul Thomas, Chairman, at 9:05 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

Paul Thomas

Charles Shockey

Bill Hardin

Larry Shockey

David Salisbury

OTHERS:

David Blair-BSWD

Teresa Brown-BSWD

Roger Hall-Attorney

Joe Sisler-Sisler-Maggard Engineering

MINUTES APPROVED

The minutes of the May 16, 2018 regular meeting were approved as mailed. The motion was made by David Salisbury, seconded by Larry Shockey. Motion carried.

BILLS

Motion made by David Salisbury, seconded by Charlie Shockey to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by Bill Hardin, seconded by Larry Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by Larry Shockey, seconded by Charlie Shockey to acknowledge water loss report. Motion carried.

Motion made by Bill Hardin, seconded by Charlie Shockey to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

OLD BUSINESS

Phase V—Joe will need Jimmy or Bill to check blueprints for blue max pipe that needs to be replaced. Motion made by Charlie Shockey, seconded by Larry Shockey to approve pay request from Sisler-Maggard Engineering for \$1215.50 (Phase V) and for \$139.41 (digitize blueprints). Motion carried.

Highway 2565—complete, except for tie-in to Louisa.

Cunningham Hill—motion made by Charlie Shockey, seconded by Larry Shockey to approve pay request from Sisler-Maggard Engineering for \$724.00. Motion carried. David is still trying to get information for easement.

NEW BUSINESS

Motion made by Bill Hardin, seconded by Charlie Shockey to accept insurance proposal from Nelson Insurance for our commercial package including umbrella and automobile in the amount of \$19308.35. Motion carried.

Motion made by Bill Hardin, seconded by Charlie Shockey to accept insurance proposal from Nelson Insurance with KEMI for out worker's compensation in the amount of \$5667.38. Motion carried.

David Blair informed commissioners that programmer that we have is no longer working—no action taken.

Motion made by David Salisbury, seconded by Larry Shockey to approve 2017 Audit. Motion carried.

David Blair informed commissioners that Jimmy Strickland on Seed Tick wants to know where we would put tap. Commissioners said we would go 50' from main line or to property line whichever is closer as per our tariff.


David Blair informed commissioners that the 8" valve is froze at Rush Hill Tank. Motion made by Larry Shockey, seconded by David Salisbury to purchase two 8" valves. Motion carried.

Motion made by Charlie Shockey, seconded by Larry Shockey to purchase pressure washer. Motion carried.

Motion made by David Salisbury, seconded by Charlie Shockey to adjourn meeting at 10:00 a.m. Motion carried.



BY:


  
David Salisbury, Secretary  
Big Sandy Water District

7-18-2018

Date Approved:

7-18-2018

BY:

  
Paul Thomas, Chairman  
Big Sandy Water District

[REDACTED]

[REDACTED]

BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF JULY 18, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, July 18, 2018. The meeting was called to order by Paul Thomas Chairman, at 9:00 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

Paul Thomas

Charles Shockey

Bill Hardin

Larry Shockey

David Salisbury

OTHERS:

David Blair-BSWD

Teresa Brown-BSWD

Roger Hall-Attorney

Joe Sisler-Sisler-Maggard Engineering

MINUTES APPROVED

The minutes of the June 20, 2018 regular meeting were approved as mailed. The motion was made by David Salisbury, seconded by Charlie Shockey. Motion carried.

BILLS

Motion made by David Salisbury, seconded by Larry Shockey to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by Bill Hardin, seconded by Larry Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by David Salisbury, seconded by Larry Shockey to acknowledge water loss report. Motion carried.

Motion made by Bill Hardin, seconded by Charlie Shockey to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

## OLD BUSINESS

Phase V—Joe Sisler met with Doug Hoff (RD) and was informed money for Phase V will be available by September 30<sup>th</sup>. Motion made by Larry Shockey, seconded by Charlie Shockey giving Joe Sisler authority to submit revised application to RD by September 1<sup>st</sup> which will include service line replacements, valves (water loss), tank cleaning and maintenance, upgrade booster stations, install new booster station, new office building, total mapping (digitize) of system and GPS System. Motion carried. Motion made by Larry Shockey, seconded by Charlie Shockey giving Joe Sisler authority to write letter explaining water loss situation and how this project will help the water loss situation. Motion carried. Motion made by Charlie Shockey, seconded by Larry Shockey to approve pay request from Sisler-Maggard Engineering for \$4576.00 (Phase V), for \$390.82 (digitize blueprints) and for \$602.50 (valve replacements). Motion carried.

Highway 2565—finally complete. Motion made by Charlie Shockey, seconded by Larry Shockey giving Paul Thomas authority to sign pay requests from Bear Traxx for \$2737.50 and Sisler-Maggard Engineering for \$349.08. Motion carried.

Cunningham Hill—discussed final easement acquisition from Archers for tank location. Motion made by Charlie Shockey, seconded by Larry Shockey to approve pay request from Sisler-Maggard Engineering for \$250.00. Motion carried.

Rush Hill Tank—David Blair informed commissioners that the altitude valve needs to be found and replaced.

## NEW BUSINESS

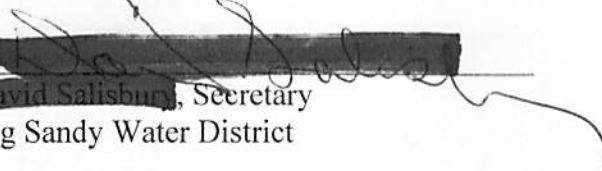
David Blair informed commissioners that Robert Marham with Kentucky Power will need a meter at main gate—need to get quote on 3" and 6" meter and check with Dan Sub (Highway Department).

Paul Thomas and David Salisbury will attend KRWA Annual Conference in Louisville, August 27<sup>th</sup>-29<sup>th</sup>.

Motion made by Bill Hardin, seconded by Charlie Shockey, selecting Paul Thomas as Big Sandy Water District's voting delegate. Motion carried.

Motion made by David Salisbury, seconded by Larry Shockey to adjourn meeting at 10:30 a.m. Motion carried.


BY:

  
David Salisbury, Secretary  
Big Sandy Water District

Date Approved:

8-15-2018

BY:

  
Paul Thomas, Chairman  
Big Sandy Water District

[REDACTED]

[REDACTED]

BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF AUGUST 15, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, August 15, 2018. The meeting was called to order by Bill Hardin, Vice-Chairman, at 9:05 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

Paul Thomas (9:10)  
Charles Shockey  
Bill Hardin  
Larry Shockey  
David Salisbury

OTHERS:

David Blair-BSWD  
Teresa Brown-BSWD  
Roger Hall-Attorney  
Joe Sisler-Sisler-Maggard Engineering

PUBLIC PARTICIPATION

Dwayne Spears with FIVCO was here informing commissioners of meeting on 09/12/18 at 10:00 a.m.

MINUTES APPROVED

The minutes of the July 18, 2018 regular meeting were approved as mailed. The motion was made by Charlie Shockey, seconded by Larry Shockey. Motion carried.

BILLS

Motion made by Larry Shockey, seconded by David Salisbury to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by David Salisbury, seconded by Larry Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by Larry Shockey, seconded by Charlie Shockey to acknowledge water loss report. Motion carried.

Motion made by [redacted] seconded by [redacted] to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

OLD BUSINESS

Phase V—still trying to locate lines and meters to be replaced. Motion made by [redacted] seconded by [redacted] to approve pay request from [redacted] Maggard Engineering for \$8937.50 (this is \$45347.50 of \$88000.00 BSWD pays). Motion carried. Discussed adding emergency stream crossing and Seed Tick into Phase V. Valves are all in except the ones on backorder.

[redacted]  
Cunningham Hill—David Blair informed commissioners that he talked to [redacted] Todd Whit (Triple B Construction) and they plan to start around September 1<sup>st</sup> and maybe done in about 30 days.

Rush Hill Tank—altitude valve is out. [redacted]

NEW BUSINESS

Stream crossing at mouth of Route 1 on Route 3 washed out, and action must be taken as soon as possible to correct the situation and to prevent any additional damage. BSWD is feeding 12 customers out of Rattlesnake Ridge Water. Motion made by [redacted] Hardin, seconded by [redacted] Charlie Shockey to declare this an emergency to get repaired. We received quotes from:

[redacted] BP Pipeline	\$39475.00
[redacted] Opell Excavating	\$35400.00
[redacted] Little Creek	\$51400.00

Motion made by [redacted] David Salisbury seconded by [redacted] Larry Shockey giving [redacted] Opell Excavating authority to repair. Motion carried. Motion made by [redacted] Charlie Shockey, seconded by [redacted] David Salisbury to approve pay request from [redacted] Gisle Maggard Engineering for \$1125.00. Motion carried.

Motion made by [redacted] Larry Shockey seconded by [redacted] Charlie Shockey to go into executive session for personnel reasons. Motion carried.

Motion made by [redacted] Larry Shockey, seconded by [redacted] Charlie Shockey to come out of executive session for personnel reasons with no action taken.. Motion carried.


Motion made by [redacted] David Salisbury, seconded by [redacted] Charlie Shockey to adjourn meeting at 11:25 a.m. Motion carried.

BY: [redacted]  
David Salisbury, Secretary



Big Sandy Water District

Date Approved: 9/19/18

BY:   
Paul Thomas, Chairman  
Big Sandy Water District



BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF SEPTEMBER 19, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, Sept. 19, 2018. The meeting was called to order by Paul Thomas, Chairman, at 9:00 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

Paul Thomas  
Charles Shockey  
Bill Hardin  
Larry Shockey  
David Salisbury

OTHERS:

Teresa Brown-BSWD  
Roger Hall, Attorney  
Joe Sisler-Sisler-Maggard Engineering

MINUTES APPROVED

The minutes of the August 15, 2018 regular meeting were approved as mailed. The motion was made by David Salisbury, seconded by Charlie Shockey. Motion carried.

BILLS

Motion made by Larry Shockey, seconded by David Salisbury to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by Bill Hardin, seconded by Larry Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by David Salisbury, seconded by Larry Shockey to acknowledge water loss report. Motion carried.

Motion made by Bill Hardin, seconded by Larry Shockey to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

OLD BUSINESS

Phase V—90% of field design is complete. Motion made by [redacted] seconded by [redacted] to approve pay request from [redacted] for \$10917.50. Motion carried.

Cunningham Hill—BSWD needs to do work at site before pump station building can be put in.

Route 1/Route 3 Stream Crossing—work is completed. Motion made by [redacted] seconded by [redacted] to approve final quantities spreadsheet from [redacted] Excavating for \$38200.00 and increase of \$2800.00. Motion carried. Motion made by [redacted] seconded by [redacted] to approve pay request from [redacted] Maggard Engineering for \$3066.00. Motion carried.

NEW BUSINESS

Motion made by [redacted] seconded by [redacted] to purchase 2 VFDs (one for US 60 and an extra one). Motion carried.

Paul informed commissioners that a commissioner from Cannonsburg Water had called him concerning BSWD purchasing water from them. If we are not going to be purchasing water they will be downsizing their line on US 60 to a 3". [redacted] is going to schedule a time for commissioners of Big Sandy Water and Cannonsburg Water to meet and discuss.

Motion made by [redacted] seconded by [redacted] to go into executive session for personnel reasons. Motion carried.

Motion made by [redacted] seconded by [redacted] to come out of executive session for personnel reasons with no action taken. Motion carried.

Discussed applications for maintenance supervisor, commissioners are going to interview [redacted] at 4:30 p.m. on September 19<sup>th</sup>.

Motion made by [redacted] seconded by [redacted] to recess meeting at 11:50 a.m. Motion carried.

After recess, meeting was resumed on September 19, 2018, at 4:30 p.m. in the District Office at 18200 State Route 3, Catlettsburg, KY.

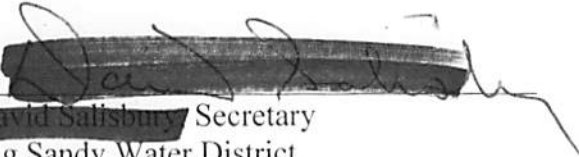
PRESENT

Paul Thomas, Charles Shockey, Bill Hardin and Larry Shockey

Commissioners interviewed Randy McDaniels. Motion made by Bill Hardin seconded by Charlie Shockey to hire Randy for a salary of \$50,000/year to be evaluated after 90 day probation period. Motion carried.

Motion made by Charlie Shockey, seconded by Larry Shockey to adjourn meeting at 5:00 p.m. Motion carried.

BY:

  
David Salisbury Secretary  
Big Sandy Water District

Date Approved: 10-17-2018

BY:

  
Paul Thomas, Chairman  
Big Sandy Water District

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF OCTOBER 17, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, Oct 17, 2018. The meeting was called to order by Paul Thomas, Chairman, at 9:10 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

Paul Thomas  
Charles Shockey  
Bill Hardin  
Larry Shockey  
David Salisbury

OTHERS:

Teresa Brown-BSWD  
Randy McDaniels-BSWD  
Jimmy Blanton-BSWD  
Bill Brooks-BSED  
Roger Hall-Attorney  
Joe Sisler-Sisler-Maggard Engineering

MINUTES APPROVED

The minutes of the Sept 19, 2018 regular meeting were approved as mailed. The motion was made by David Salisbury, seconded by Charlie Shockey. Motion carried.

BILLS

Motion made by Larry Shockey, seconded by Bill Hardin to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by David Salisbury, seconded by Charlie Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by Larry Shockey, seconded by Bill Hardin to acknowledge water loss report. Motion carried.

Motion made by Bill Hardin, seconded by Larry Shockey to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

## OLD BUSINESS

Phase V—RD in Lexington has approved everything with exception of environmental and waiting on tribal information. Engineer will need one more day to get all service lines marked. Motion made by Larry Shockey, seconded by Charlie Shockey to approve pay request from Sisler-Maggard Engineering for \$14,722.50. Motion carried. Motion made by Bill Hardin, seconded by Larry Shockey giving Paul Thomas authority to sign Ordinance No. 139, 2018 with City of Ashland contingent upon legal approval. Motion carried.

Cunningham Hill—we haven't done anything.

Route 1/Route 3 Stream Crossing—David Blair on behalf of BSWD was part of negotiations to relocate Larry Kitchen's tap for an easement due to stream crossing, subsequently received call from Larry Kitchen to Bobbi Burton (at our office) not to relocate at this time.

Commissioners discussed meeting with Cannonsburg Water Commissioners. They are planning to downsize line going out Route 60 from 8" to 6" to 3" into US 60 pump station. Commissioners requested Sisler-Maggard to check hydraulics and give report on downsizing.

## NEW BUSINESS

Violet Reed and her father had requested water service and discussed a crossing with the railroad. BSWD instructed Sisler-Maggard to investigate with CSX the application for water service crossing of railroad.

Paintsville Water denied BSWD water for the 2<sup>nd</sup> time when we requested emergency water service even though we have an emergency supply agreement with them. Commissioners instructed Roger Hall to review emergency supply agreement and write letter to Paintsville.

Motion made by Bill Hardin, seconded by Larry Shockey to remove David Blair, add Sherman McDaniels and keep Charles and Larry Shockey as signers on all banking accounts. Motion carried.

Sherman McDaniels, James Blanton and Bill Brook will be on the on-call list. Need to check into phone plan that has 5 phones. Motion made by Charlie Shockey, seconded by Larry Shockey to purchase new road signs and cones. Motion carried.

Motion made by Charlie Shockey, seconded by Larry Shockey to purchase each employee 3 safety shirts and a breakaway vest. Motion carried.

Jimmy Blanton discussed compensation upgrades for all employees.

Motion made by Charlie Shockey, seconded by Larry Shockey to hire a full-time employee at \$12.00 an hour. Motion carried.



Motion made by David Salisbury, seconded by Larry Shockey to adjourn meeting at 11:00 a.m. Motion carried.

BY:

David Salisbury  
David Salisbury, Secretary  
Big Sandy Water District

Date Approved: 11-21-2018

BY:

Paul Thomas  
Paul Thomas, Chairman  
Big Sandy Water District

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]  
[REDACTED]  
BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF NOVEMBER 21, 2018 [REDACTED]

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, Nov. 21, 2018. The meeting was called to order by [REDACTED] Paul Thomas, Chairman, at 9:00 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

[REDACTED]  
Paul Thomas  
Charles Shockey  
Bill Hardin  
Larry Shockey  
David Salisbury

OTHERS:

[REDACTED]  
Teresa Brown-BSWD  
Randy McDaniels-BSWD  
Roger Hall, Attorney  
Joe Sisler-Sisler-Maggard Engineering

MINUTES APPROVED

The minutes of the October 17, 2018 regular meeting were approved as mailed. The motion was made by [REDACTED] David Salisbury, seconded by [REDACTED] Larry Shockey. Motion carried.

BILLS

Motion made by [REDACTED] David Salisbury, seconded by [REDACTED] Charlie Shockey to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by [REDACTED] Bill Hardin, seconded by [REDACTED] Charlie Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by [REDACTED] Bill Hardin, seconded by [REDACTED] Charlie Shockey to acknowledge water loss report. Motion carried.

Motion made by [REDACTED] Bill Hardin, seconded by [REDACTED] Larry Shockey to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

[REDACTED]  
[REDACTED]  
[REDACTED]

OLD BUSINESS

Phase V—project has been approved. Motion made by [redacted], seconded by [redacted] to approve pay request from [redacted] Sisler-Maggard Engineering for \$11,852.42. Motion carried. [redacted] (RD) will be here November 28<sup>th</sup> at 10:00 a.m. to sign paperwork for Phase V Project.

Cunningham Hill Pump Station (Phase V reimbursement)—[redacted] Jimmy requested a change from a single door to a double door, [redacted] Joe Sisler stated he would add to as-builts. We still haven't completed any work on the site.

[redacted] Cannonsburg Water—general discussion concerning water service from Cannonsburg on US 60.

Painstville Utilities—[redacted] Joe Sisler reported he spoke with [redacted] Bob Pack (Manager) regarding lack of emergency service twice in last six months. He reported they will be sending letter to BSWD stating they will be able to furnish water when their project is completed.

NEW BUSINESS

[redacted] Randall Blackburn at Top of the World Road would like to get water service (about 1600' to his driveway). We might consider it if lots are sold and customers sign up.

Motion made by [redacted] Bill Hardin, seconded by [redacted] David Salisbury to approve 2019 Budget. Motion carried.

Motion made by [redacted] Bill Hardin, seconded by [redacted] Charlie Shockley to purchase a ½ ton pickup truck. Motion carried.

Motion made by [redacted] Charlie Shockley, seconded by [redacted] Larry Shockley to give all employees a \$300.00 incentive pay. Motion carried.

Motion made by [redacted] Bill Hardin, seconded by [redacted] Charlie Shockley that all full-time employees be hired at \$12.00/hr and part-time employees be hired at \$11.00/hr and to give [redacted] Beverly Bellomy 50 cent raise to make her \$11.00/hr. Motion carried.

Motion made by [redacted] David Salisbury, seconded by [redacted] Charlie Shockley to recess meeting at 11:00 a.m. until November 28<sup>th</sup> at 10:00 a.m. Motion carried.

After recess, meeting was resumed on November 28<sup>th</sup>, 2018, at 10:00 a.m. in the District Office at 18200 State Route 3, Catlettsburg, KY.

PRESENT

[redacted] Paul Thomas, [redacted] Doug Hoff, [redacted] Bill Hardin, [redacted] Joe Sisler, [redacted] Roger Hall, [redacted] Randy McDaniels, [redacted] Larry Shockley, [redacted] Charlie Shockley, [redacted] David Salisbury and [redacted] Teresa Brown.

Doug Hoff (USDA/RD) presented Letter of Conditions (see attached) for funding for Phase V dated 11/20/18. The funding on this project will be:

RUS Loan	\$1,670,000
RUS Grant	\$ 700,000
BSWD	\$ 88,000

The current rate is 3.25% for 40 years. BSWD will be required to deposit \$630/month into Debt Reserve Account.

Motion made by Charlie Shockey, seconded by Larry Shockey to adopt resolution for Mitigation Measures. Motion carried.

Motion made by David Salisbury, seconded by Charlie Shockey to adopt:

- Form RUS Bulletin 1780-27, "Loan Resolution (Public Bodies)"
- Form RD 400-1, "Equal Opportunity Agreement"
- Form RD 400-4, "Assurance Agreement"
- Form AD-1047, "Certification Regarding Debarment, Suspension, and Other Responsibility Matters-Primary Covered Transaction"
- Form RD 1910-11, "Applicant Certification Federal Collection Policies for Consumer of Commercial Debts"
- RD Instruction 1940-Q, Exhibit A-1, "Certification for Contracts, Grants and Loans"
- RUS Bulletin 1780-22, Eligibility Certification.

Motion carried.

Motion made by Larry Shockey, seconded by David Salisbury giving Bill Hardin (Vice-Chairman) authority to sign any documents related to Phase V if Paul Thomas is not able. Motion carried.

The relocated Quarry Branch Pump Station (Phase V) site near intersection 1937 and 707 may need to be condemned.

Motion made by Charlie Shockey, seconded by Larry Shockey to adopt interim financing thru KRWFC for RD Loan in the amount of \$1,670,000. Motion carried.

We will probably bid Phase V Project in February 2019.

Motion made by Charlie Shockey, seconded by Larry Shockey to pay Rand McDaniels overtime that he has worked since he was hired and any overtime he will work henceforth. Motion carried.

Motion made by Bill Hardin, seconded by Charlie Shockey to make Office Manager salary the same as Maintenance Supervisor salary. Motion carried.

Motion made by Larry Shockey, seconded by Charlie Shockey to purchase two ½ ton trucks from the lowest quote. Motion carried.

Motion made by Charlie Shockey, seconded by Larry Shockey to have a drug test and background check on any perspective employee before they can start work and also to start program to do random drug testing on employees. Motion carried.



BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF DECEMBER 19, 2018

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, Dec. 19, 2018. The meeting was called to order by Paul Thomas, Chairman, at 9:00 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

Paul Thomas  
Charles Shockey  
Bill Hardin  
Larry Shockey  
David Salisbury

OTHERS:

Teresa Brown-BSWD  
Randy McDaniels-BSWD  
Roger Hall-Attorney  
Joe Sisler-Sisler-Maggard Engineering

PUBLIC PARTICIPATION

Tim Webb (Manager) and Robert McGuire (Commissioner) with Cannonsburg Water discussed with BSWD Commissioners protesting the rate increase from City of Ashland due to poor quality of water. Cannonsburg has hired Stoll Keenon Oden PLLC to represent them and wants to know if BSWD would half the bill with them.

Motion made by Larry Shockey, seconded by David Salisbury to go into executive session for possible litigation. Motion carried.

Motion made by Charlie Shockey, seconded by Larry Shockey to come out of executive session for possible litigation with no action taken. Motion carried.

Motion made by Bill Hardin, second by Charlie Shockey to enter into agreement that Cannonsburg Water has with Stoll Keenon Oden PLLC agreeing to pay one-third of bill and adding Roger Hall as co-counsel. Motion carried. Paul Thomas to call Cannonsburg Water with BSWD response.

## MINUTES APPROVED

The minutes of the November 21, 2018 regular meeting were approved as mailed. The motion was made by Charlie Shockey, seconded by David Salisbury. Motion carried.

## BILLS

Motion made by Bill Hardin, seconded by Charlie Shockey to approve and pay the monthly bills. Motion carried.

## REPORTS

Motion made by Bill Hardin, seconded by Larry Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by David Salisbury, seconded by Larry Shockey to acknowledge water loss report. Motion carried.

Motion made by Bill Hardin, seconded by Larry Shockey to approve monthly billing collections on accounts and adjustments on accounts. Motion carried.

## OLD BUSINESS

Phase V—need deed for Quarry Branch Pump Station and Fullers Ridge Pump Station. Motion made by Charlie Shockey, seconded by Larry Shockey to approve pay request from Sisco Maggard Engineering for \$5,297.50. Motion carried.

Cunningham Hill Pump Station (Phase V reimbursement)—BSWD has put tile in and leveled the ground, we still need to pipe and order VFD.

Painstville Utilities—BSWD still has not received letter. Joe Sisco needs to contact Bob Pack concerning letter.

## NEW BUSINESS

Motion made by Bill Hardin, seconded by Charlie Shockey to adopt Boyd County Code of Ethics (attached to minutes). Motion carried.

Motion made by Larry Shockey, seconded by Charlie Shockey to declare 2011 Chevrolet surplus and accept sealed bids. Motion carried.

Motion made by Larry Shockey, seconded by Charlie Shockey to reimburse Boyd County Road Department for rock for Long Branch Rd. Motion carried.

Motion made by Larry Shockey, seconded by Charlie Shockey to approve charge-offs in the amount of \$21,360.22. Motion carried.

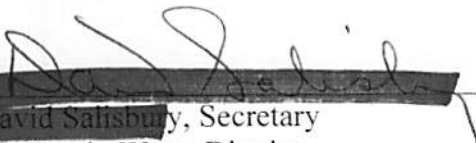


Motion made by [redacted], seconded by [redacted] to go into executive session for personnel reasons. Motion carried.


Motion made by [redacted], seconded by [redacted] to come out of executive session for personnel reasons with no action taken. Motion carried.

Motion made by [redacted], seconded by [redacted] to give hourly employees a .25 cent raise effective 01/01/19. Motion carried.

Motion made by [redacted], seconded by [redacted] to adjourn meeting at 11:00 a.m. Motion carried.

BY:   
[redacted]  
David Salisbury, Secretary  
Big Sandy Water District

Date Approved: 1-16-2019

BY:   
[redacted]  
Paul Thomas, Chairman  
Big Sandy Water District

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] [REDACTED]  
BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING  
[REDACTED]

MINUTES OF JANUARY 16, 2019 [REDACTED]

[REDACTED] REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, January 16, 2019. The meeting was called to order by [REDACTED] Thomas, Chairman, at 9:00 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

[REDACTED] [REDACTED]  
PRESENT COMMISSIONERS:  
[REDACTED]

[REDACTED] Paul Thomas  
[REDACTED] Charles Shockey  
[REDACTED] Bill Hardin  
[REDACTED] Larry Shockey  
[REDACTED] David Salisbury

OTHERS:

[REDACTED] Teresa Brown-BSWD  
[REDACTED] Randy McDaniels-BSWD  
[REDACTED] Roger Hall Attorney  
[REDACTED] Joe Sisler-Sisler-Maggard Engineering  
[REDACTED]

PUBLIC PARTICIPATION [REDACTED]

[REDACTED] (Paintsville Utilities) came to explain circumstances for Paintsville supplying water to Big Sandy in an emergency. If they are able to supply BSWD water without their customers losing water they will. Paintsville is currently doing 2 projects. These will relieve future problems of supply to both of Big Sandy connections one on US 23 and the other on Highway 581. These projects are expected to be completed in 2019.

MINUTES APPROVED [REDACTED]

The minutes of the December 19, 2018 regular meeting were approved as mailed. The motion was made by [REDACTED] David Salisbury, seconded by [REDACTED] Charles Shockey. Motion carried.

[REDACTED]  
BILLS [REDACTED]

Motion made by [REDACTED] Bill Hardin, seconded by [REDACTED] David Salisbury to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by [redacted], seconded by [redacted] to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by [redacted], seconded [redacted] to acknowledge water loss report. Motion carried.

Motion made by [redacted] seconded by [redacted] to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

OLD BUSINESS

Phase V—currently working on deed and negotiations for Quarry Branch Pump Station with [redacted] Fullers Ridge Pump Station with [redacted] and easement from [redacted] and [redacted] on Morgans Creek. [redacted] stated due to government shut down, this will delay the advertisement for bids and construction of project. Motion made by approve pay request from [redacted] for \$5687.50. Motion carried.

Cunningham Hill Pump Station (Phase V reimbursement)—BSWD has the pipe and fittings-as soon as we have time we will go work on it.

NEW BUSINESS

Commissioners instructed [redacted] to contact Hay Exploration concerning repairs they had made to our water lines using shark bites on Spankem Branch.

Motion made by [redacted], seconded by [redacted] to purchase a Range (reader for reading meters) for \$6975.00. Motion carried.

Motion made by [redacted], seconded by [redacted] to leave commissioner positions as they are:

- [redacted]—Chairman
- [redacted]—Vice-Chairman
- [redacted]—Secretary
- [redacted]—Treasurer
- [redacted]—Asst. Secretary & Asst. Treasurer

Motion carried.

Received 4 bids on 2011 Chevrolet:

[redacted]	David Grubb	\$1610.00
[redacted]	Nathan Walker	\$2599.00
[redacted]	Al Gauding	\$1380.00
[redacted]	Ricky Davidson	\$2109.00

Motion made by [redacted], seconded by [redacted] to accept highest bid for \$2599.00 from [redacted], if he doesn't want truck then next highest bid for \$2109.00 from [redacted]. Motion carried.

Motion made by [redacted], seconded by [redacted] to recess meeting at 10:15 a.m. Motion carried.

[redacted]  
BY: James D. Salisbury  
2-20-2019  
David Salisbury, Secretary  
Big Sandy Water District

Date Approved: 2-20-2019

BY: [redacted]  
Paul Thomas, Chairman  
Big Sandy Water District

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

BIG SANDY WATER DISTRICT  
COMMISSIONERS' MEETING

MINUTES OF FEBRUARY 20, 2019

REGULAR MEETING

A regular meeting of the Board of Commissioners of the Big Sandy Water District was held on Monday, February 20, 2019. The meeting was called to order by Paul Thomas, Chairman, at 9:00 a.m. in the District Office at 18200 State Route 3, Catlettsburg, Ky.

PRESENT COMMISSIONERS:

Paul Thomas

Charles Shockey

Bill Hardin

Larry Shockey

David Salisbury

OTHERS:

Teresa Brown-BSWD

Randy McDaniels-BSWD

Roger Hall-Attorney

Joe Sisler-Sisler-Maggard Engineering

Motion made by Charlie Shockey, seconded by Larry Shockey to adjourn January 16, 2019 meeting. Motion carried.

MINUTES APPROVED

The minutes of the January 16, 2019 regular meeting were approved as mailed. The motion was made by David Salisbury, seconded by Larry Shockey. Motion carried.

BILLS

Motion made by David Salisbury, seconded by Charlie Shockey to approve and pay the monthly bills. Motion carried.

REPORTS

Motion made by Charlie Shockey, seconded by Larry Shockey to approve treasurer's report. Motion carried.

Commissioners discussed water loss. Motion made by [redacted] Larry Shockey, seconded by [redacted] David Salisbury to acknowledge water loss report. Motion carried.

Motion made by [redacted] Charlie Shockey, seconded by [redacted] Larry Shockey to approve monthly billing, collections on accounts and adjustments on accounts. Motion carried.

#### OLD BUSINESS

Phase V—all items except for 3 have been submitted to RD, hopefully these will be submitted by end of week. BSWD purchased land for Fullers Ridge Pump Station from [redacted] Joe Cook for \$300, settled with [redacted] Daron Dean \$1,000 for Quarry Branch Pump Station. Plans & Specs have been approved by Division of Water and Rural Development, State Engineer. BSWD is ready to advertise for bids when [redacted] Doug gets the 3 items. Motion made by [redacted] Bill Hardin, seconded by [redacted] Charlie Shockey to approve pay request from [redacted] Sister-Maggard Engineering for \$26522.50 (\$1827.50-digitizing blueprints and \$24695.00-Phase V). Motion carried.

Cunningham Hill Pump Station (Phase V reimbursement)—[redacted] Randy reported that BSWD has the pipe and fittings. Soon as we have time and weather permits we will go work on it.

#### NEW BUSINESS

[redacted] Ryan Eastwood with [redacted] City of Ashland wants to install chlorinator at 538 Pump Station so they will be able to analyze water being sent to us. [redacted] Randy will schedule time to meet him at 538 Pump Station.

Motion made by [redacted] Larry Shockey, seconded by [redacted] David Salisbury to adjourn meeting at 10:15 a.m. Motion carried.

BY: [redacted]  
David Salisbury Secretary  
Big Sandy Water District

Date Approved: 3-20-2019

BY: [redacted]  
Paul Thomas, Chairman  
Big Sandy Water District



# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	42,287,900	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>42,287,900</b>	
5	<b>WATER SALES</b>		
7	Residential	17,949,300	
8	Commercial	344,000	
9	Industrial	4,618,800	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	325,900	
13	<b>TOTAL WATER SALES</b>	<b>23,238,000</b>	55.0%
14	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	11,500	
19	Fire Department	8,200	
20	Other <u>theft</u>	4,900	
21	<b>TOTAL OTHER WATER USED</b>	<b>24,600</b>	0.1%
22	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	3,808,960	
26	Line Leaks	15,216,340	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>19,025,300</b>	45.0%
29	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
30			
31	<b>WATER LOSS PERCENTAGE</b>		
32			
33	Unaccounted-For Water (Line 28 divided by Line 4)		45.0%

**BIG SANDY WATER LOSS REPORT**

**FOR JANUARY 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1569</b>	<b>\$34,144.40</b>	<b>\$20,640.31</b>	<b>\$24,070.87</b>
<b>A. Water Purchased</b>			<b>11,158,300</b>	<b>6,745,200</b>	<b>7,866,300</b>
Sold			<b>6,650,900</b>	<b>5,554,300</b>	<b>4,892,300</b>
<b>B. Difference - Loss</b>	<b>\$13,792.64</b>		<b>4,507,400</b>	<b>1,190,900</b>	<b>2,974,000</b>
% Difference			<b>40%</b>	<b>18%</b>	<b>38%</b>
Water Sales					
Breaks			<b>1,845,280</b>	<b>146,200</b>	<b>1,663,520</b>
Hydrant Flushing			<b>2,500</b>	<b>35,200</b>	<b>21,700</b>
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			<b>4,500</b>		
Other				<b>610,100</b>	
<b>C. Total Gallons Accounted For Loss</b>			<b>1,852,280</b>	<b>791,500</b>	<b>1,685,220</b>
Unaccounted For			<b>2,655,120</b>	<b>399,400</b>	<b>1,288,780</b>
(B - C)					
% Loss Unaccounted for			<b>24%</b>	<b>6%</b>	<b>16%</b>
= B - C					
A					
<b>Gallons / Day Loss</b>			<b>85,649</b>	<b>12,884</b>	<b>41,574</b>
<b>Gallons Loss (G.P.M.)</b>			<b>59</b>	<b>9</b>	<b>29</b>

<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR JANUARY 2018</b>					
		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1153	\$29,962.76	\$23,272.83	\$29,180.16
<b>RATTLESNAKE</b>	<b>\$3.82</b>	107	\$3,297.81	\$1,678.89	\$1,615.86
<b>ASHLAND</b>	<b>\$2.19</b>	1270	\$27,797.67	\$26,339.13	\$22,438.74
<b>CANNONSBURG</b>	<b>\$4.42</b>	649	\$25,738.54	\$2,997.20	\$8,207.50
<b>TOTAL</b>			<b>\$86,796.78</b>	<b>\$54,288.05</b>	<b>\$61,442.26</b>
<b>A. Water Purchased</b>			31,129,600	22,271,200	23,969,100
Sold			16,587,100	15,325,600	15,643,600
<b>B. Difference - Loss</b>	<b>\$41,006.31</b>		14,542,500	6,945,600	8,325,500
% Difference			47%	31%	35%
Water Sales					
Breaks			6,995,120	864,520	2,145,440
Hydrant Flushing			9,000	5,000	2,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use			3,700	3,750	
Other Meter Testing			4,900	16,900	60,000
<b>C. Total Gallons Accounted For Loss</b>			7,012,720	890,170	2,207,440
Unaccounted For			7,529,780	6,055,430	6,118,060
<b>(B - C)</b>					
% Loss Unaccounted for			24%	27%	26%
= B - C					
A					
<b>Gallons / Day Loss</b>			242,896	195,336	197,357
<b>Gallons Loss (G.P.M.)</b>			169	136	137

**Leaks & Flushings**

<b>KRAC Leaks</b>		<b>Jan-18</b>	<b>KRAC Flushings</b>	
1/1/2018	Golden Gate - Les TS	28,800	1/11/2018	- Pigeon Roost Rd 7,000
	- Pinehurst busted meter bottom	28,800	1/12/2018	- Shepherd Br 2,000
1/2/2018	- N St Hwy 207 meter bottom	28,800	<b>TOTAL 9,000</b>	
1/3/2018	- Christy Ln - meter bottom	28,800		
	- Fryer Holw meter bottom	43,200		
	- Raquel Br - reg & meter bottom	36,000		
	- Roe Crk - reg	43,200		
	- Hwy 773 meter bottom 20gpm	86,400		
1/5/2018	- Spankem Br - reg & meter bottom	108,000		
1/7/2018	Lakewood - leaking meter Jim's TS	43,200		
1/8/2018	- Spankem Br - busted reg & meter bottom	151,200		
1/9/2018	- Mt Savage leak between valve & meter	1,000		
	- Quarry Br leak 20-25 gpm	288,000		
	Shawhan Ln - water leak	175,000		
	Panther Lane - water leak	230,400	<b>Fire Departments</b>	
	Trace Rd - meter bottom	28,800	1/29/2018	Big Sandy VFD 500
	Clay Hollow - regulator	21,600		Jan-18 East Fork VFD 0
1/10/2018	- Hwy 3399 Reg leaking (dripping)	64,800		Jan-18 Norton Br VFD 3,200
	Straight Crk - meter bottom (Jim's ts)	28,800	<b>TOTAL 3,700</b>	
1/11/2018	- St Hwy 773 meter bottom busted	43,200		
	- Trace Rd - busted meter bottom	64,800		
	- Nebo - service line pulled apart 20gpm	86,400		
	- Little Cat Frk Rd 4" line 4-5gpm	72,000		
1/12/2018	- Laramie Trl - 3" main 125gpm	180,000	<b>Theft of service</b>	
	- Raven Rock 3" line 30gpm	86,400	1/9/2018	- Quarry Branch 4,300
1/15/2018	- meter bottom leaking	43,200		14499 Trace Rd 600
1/17/2018	Callahan Rd - Old log house busted meter bottom - 15gpm	43,200	<b>TOTAL 4,900</b>	
1/18/2018	- Mt. Savage Ln - valve leaking	28,800		
1/18/2018	- Katy Br - valve leaking	28,800		
1/18/2018	- Brookwood - regulator leaking	43,200		
1/19/2018	- Wilson Crk - busted reg 20gpm day or 2	57,600		
	- Friendship - meter bottom & regulator.	28,800		
	- N St Hwy 207 - busted meter	43,200		
1/20/2018	Changed S-pipe Tom's TS ? (call out)	136,800		
1/21/2018	- Porter Rd meter bottom leaking 10gpm	57,600		

1/22/2018	- Hwy 1496 busted meter bottom 20gpm	57,600
1/22/2018	- Lakewood Vaillage Dr - meter bottom	90,720
1/21/2018	- Shop Br - service line came apart 20gpm-2wks	403,200
1/22/2018	- St Hwy 773 - started Sat - leaked 2 days 10gpm	28,800
	Hwy 707 - fixed leak replaced line from corp to setter	253,440
1/3-1/25	1" line 2pinholes 10gpm	316,800
1/25/2018	Mill Branch 3" line	280,000
1/26/2018	Fryer Hollow - leak - regulator Bill's Ts	360,000
	Little Cat & State Route 3 leak	201,600
1/29/2018	- busted meter bottom 2gpm	20,160
	Willow Tree - 3/4" line had 1/2" hole 30gpm	216,000
	- regulator leaking	14,400
1/23-1/30/18	- E US Hwy 60 7 days @ 50,000 per day	350,000
1/30/2018	Rt 60 fixed leak 15gpm	640,800
	Friendship Rd - fixed leak 15gpm	626,400
	Little Cat - Fixed leak 4" 10gpm	28,800
1/17 - 2/2	- Pinehurst 20gpm	432,000
1/22 - 2/6	- St Rt 3 leak 4-5gpm	79,200
1/24/2018	- Cedar Dr - valve & meter bottom	86,400
	<b>TOTAL</b>	<b>6,995,120</b>

**Louisa Leaks**

**Louisa Flushings**

1/1/2018	- Hwy 1690 busted meter bottom	43,200	1/31/2018	- Hwy 2565 flushed 20 mins.	2,500
1/2/2018	- Cherryville Rd busted reg & meter bottom	57,600			
	- S Hwy 3 busted reg & meter bottom 30gpm	86,400			
	- Hwy 23 reg leaking @ least 30gpm	86,400			
	- Left Frk Lt Blaine - meter bottom	43,200			
1/3/2018	- Beasley Br - reg, meter bottom & check valve	25,000			
1/5/2018	- Redbud Sub - meter bottom 10gpm	28,800			
	Left Frk Little Blaine - meter bottom - Jim's TS	28,800			
1/8/2018	- Hwy 581 meter bottom split	28,800			
	Lowmansville PO - May Ln - meter bottom & reg	86,400			
	- Little Laurel Dr - valve & reg	43,200			
	- Hwy 32 - meter bottom	43,200			
	- Hay Br - meter bottom	43,200			
	Rock Crk Rd - busted meter bottom 5gpm	50,400			
1/9/2018	- S Hwy 3 meter bottom 10gpm	43,200			
	Torchlight - 3/4" line split 5gpm	50,400			
1/10/2018	- Hwy 581 meter bottom busted 20-25gpm	72,000			
	- Opal Ln - meter bottom & reg 10gpm	43,200			
1/11/2018	- Norris Fork - s-pipe leaking 3gpm	43,200			
1/12/2018	- Copperhead Rd - water leak 5gpm	50,400			
1/15/2018	Hwy 1690 b/4 Donithon - air release leaking	3,000			
1/19/2018	- US 23 changed reg & meter bottom	51,840			
1/22/2018	- Norris Fork - replace meter bottom	43,200			
1/23/2018	- Hwy 1690 - meter bottom 5days 30-35gpm	252,000			
1/24/2018	Highway 1690 meter bottom Bill's TS	43,200			
1/26/2018	Yellow Crk - Air release valve 35gpm	403,200			
1/30/2018	- ratesville Rd meter bottom 7gpm	30,240			
1/31/2018	- Hwy 32 - regulator leaking 1/2gpm	21,600			
	<b>TOTAL</b>	<b>1,845,280</b>			

**Fire Departments**

Jan-18	Cherryville VFD	no report
1/20/2018	Lowmansville VFD	4,500

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	36,240,800	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>36,240,800</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	13,426,100	
8	Commercial	281,400	
9	Industrial	5,126,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>churches, schools, fire departments</u>	272,600	
13	<b>TOTAL WATER SALES</b>	<b>19,106,500</b>	52.7%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	72,800	
19	Fire Department	3,000	
20	Other _____		
21	<b>TOTAL OTHER WATER USED</b>	<b>75,800</b>	0.2%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	3,635,400	
26	Line Leaks	13,423,100	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>17,058,500</b>	47.1%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)	<b>47.1%</b>	

<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR FEBRUARY 2018</b>					
		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1153	\$33,605.94	\$29,962.76	\$22,564.95
<b>RATTLESNAKE</b>	<b>\$3.82</b>	106	\$1,812.97	\$3,297.81	\$1,743.07
<b>ASHLAND</b>	<b>\$2.19</b>	1269	\$19,674.96	\$27,797.67	\$18,128.82
<b>CANNONSBURG</b>	<b>\$4.42</b>	647	\$19,461.26	\$25,738.54	\$11,514.54
<b>TOTAL</b>		<b>3175</b>	<b>\$74,555.13</b>	<b>\$86,796.78</b>	<b>\$53,951.38</b>
A. Water Purchased			27,040,400	31,129,600	20,188,400
Sold			14,342,900	16,587,100	13,335,400
B. Difference - Loss		\$35,363.01	11,638,500	14,542,500	6,853,000
% Difference			43%	47%	34%
Water Sales					
Breaks			2,668,360	6,995,120	1,633,800
Hydrant Flushing			54,300	9,000	51,250
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			3,000	3,700	1,000
Other Meter Testing				4,900	10,000
C. Total Gallons Accounted For Loss			2,725,660	7,012,720	1,696,050
(B - C)			8,912,840	7,529,780	5,156,950
% Loss Unaccounted for			33%	24%	26%
= B - C					
A					
Gallons / Day Loss			318,315	242,896	184,177
Gallons Loss (G.P.M.)			221	169	127



**BIG SANDY WATER LOSS REPORT**

**FOR FEBRUARY 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1567</b>	<b>\$28,153.23</b>	<b>\$34,144.40</b>	<b>\$17,495.55</b>
<b>A. Water Purchased</b>			<b>9,200,400</b>	<b>11,158,300</b>	<b>5,717,500</b>
<b>Sold</b>			<b>4,763,600</b>	<b>6,650,900</b>	<b>4,603,000</b>
<b>B. Difference - Loss</b>	<b>\$13,576.61</b>		<b>4,436,800</b>	<b>4,507,400</b>	<b>1,114,500</b>
<b>% Difference</b>			<b>48%</b>	<b>40%</b>	<b>19%</b>
<b>Water Sales</b>					
<b>Breaks</b>			<b>967,040</b>	<b>1,845,280</b>	<b>299,640</b>
<b>Hydrant Flushing</b>			<b>18,500</b>	<b>2,500</b>	
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>				<b>4,500</b>	
<b>Other</b>					
<b>C. Total Gallons Accounted For Loss</b>			<b>985,540</b>	<b>1,852,280</b>	<b>299,640</b>
<b>Unaccounted For</b>					
<b>(B - C)</b>			<b>3,451,260</b>	<b>2,655,120</b>	<b>814,860</b>
<b>% Loss Unaccounted for</b>			<b>38%</b>	<b>24%</b>	<b>14%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>123,259</b>	<b>85,649</b>	<b>29,102</b>
<b>Gallons Loss (G.P.M.)</b>			<b>86</b>	<b>59</b>	<b>20</b>

**Leaks and Flushings  
Feb-18**

<b>KRAC Leaks</b>		<b>KRAC Flushing</b>	
2/2/2018 Pinehurst - water leak	35,000	2/6/2018 Mouth of Bolts Frk	8,000
2/2/2018 - Alley Br - regulator 4gpm	5,760	2/5/2018 Long Branch	10,000
2/5/2018 Long Branch - 3" line	30,000	2/10/2018 - Hwy 1496	3,000
1/22-2/6 - St Rt. 3 leak 4-5gpm	115,200	2/14/2018 Wilson Creek	5,000
1/23-2/8 - St Rt 854 water leak 5gpm	115,200	Cribbs Hill	5,300
1/8-2/9 Jordan Ln - 2" leak 10gpm	561,600	Spankem Branch	2,000
2/10/2018 - Hwy 1395- 3/4" 45gpm	64,800	2/21/2018 - Blue Ribbon 10mins.	2,000
2/13/2018 Little Cat - 4" 45 elbow 15gpm	43,200	- Bear Crk - hydrant	2,000
2/14/2018 Williams Crk - leak @ new bridge	216,000	2/21/2018 - Mary Ct (Les)	2,000
2/17/2018 Linda Circle - water leak	460,800	2/22/2018 - Tigger Br (Les)	2,000
1/16/-2/20 - Bear Crk/Blue Ribbon 8" coupling	180,800	2/26/2018 - Spankem Br	2,000
2/21/2018 Leslie Rd - leak @ new bridge	30,000	2/23/2018 - Spankem Br	10,000
Silver Run - Leak 4" bell 15gpm	108,000	2/26/2018 - Big Run Trace	1,000
2/22/2018 - Durbin Rd - reg leaking 5gpm	151,200	Total	54,300
2/23/2018 - Alley Br - 3" line split lost	30,000		
2/25/2018 Spankem Br - water leak	35,000		
2/26/2018 - Indian Trl - Almond Rd 3" pulled apart 10gpm	360,000	<b>Fire Departments</b>	
2/26/2018 - St Rt 3 3/4" service line 10gpm	100,800	2/19/2018 Big Sandy VFD	3,000
2/23/2018 - leak	25,000	East Fork VFD	No Report
Total	2,668,360	Norton Br - VFD	0
		Total	3,000

**Louisa Leaks**

2/1/2018	- Left Fork Morgans Crk - regulator 30gpm	43,200
2/6/2018	- Left Fork Morgans Crk - valve leaking	3,000
2/7/2018	- Donithon Rd - regulator leaking	28,800
9/26-2/14	- Workman Holw 2" 90 elbow split 5-10gpm	249,120
1/23-2/15	- Hwy 1690 - valve on setter (meter dead)	5,000
2/17/2018	Morgans Crk - water leak 3" - 70gpm	403,200
2/20/2018	Left Frk Morgans Crk - replaced meter bottom & regulator.	8,000
2/22/2018	Law Co Road Dept - Ash Br 3" water leak 50gpm	72,000
2/23/2018	Donithon - leak @ slip 6" line	54,720
2/22/2018	Rt 3 past Rt 644 6" line split	60,000
2/25/2018	Morgans Crk - leak	40,000
<b>Total</b>		<b>967,040</b>

**Louisa Flushing**

2/10/2018	- Hwy 2565 20minsx150gpm	3,000
2/14/2018	-Topaz Ln	2,000
2/20/2018	- Raven Rock 3" BO	3,000
	Raven Rock 2" BO	4,500
2/23/2018	- Lf Frk Mrgs Crk BO 20mins.	2,000
2/28/2018	- Raven Rock 30 mins.	3,000
2/23/2018	Workman Holw -	1,000
<b>Total</b>		<b>18,500</b>

**Fire Departments**

February	Cherryville	No Report
	Lowmansville VFD	0

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	37,780,900	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>37,780,900</b>	
5	<b>WATER SALES</b>		
7	Residential	15,071,000	
8	Commercial	320,600	
9	Industrial	5,417,200	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	371,000	
13	<b>TOTAL WATER SALES</b>	<b>21,179,800</b>	56.1%
14	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	21,500	
19	Fire Department	13,100	
20	Other <u>Meter testing, dead meters</u>	106,730	
21	<b>TOTAL OTHER WATER USED</b>	<b>141,330</b>	0.4%
22	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	2,010,000	
26	Line Leaks	14,449,770	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>16,459,770</b>	43.6%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)	<b>43.6%</b>	

**BIG SANDY WATER LOSS REPORT**

**FOR MARCH 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1156	\$36,032.52	\$33,605.94	\$24,954.81
<b>RATTLESNAKE</b>	<b>\$3.82</b>	106	\$2,277.10	\$1,812.97	\$1,690.35
<b>ASHLAND</b>	<b>\$2.19</b>	1272	\$20,456.79	\$19,674.96	\$17,228.73
<b>CANNONSBURG</b>	<b>\$4.42</b>	647	\$19,958.95	\$19,461.26	\$19,887.56
<b>TOTAL</b>		<b>3181</b>	<b>\$78,725.36</b>	<b>\$74,555.13</b>	<b>\$63,575.16</b>
A. Water Purchased			28,583,100	27,040,400	22,553,000
Sold			15,934,500	14,342,900	15,978,100
B. Difference - Loss		\$35,092.49	12,648,600	11,638,500	6,574,900
% Difference			45%	43%	29%
Water Sales					26,000
Breaks			1,200,400	2,668,360	1,997,480
Hydrant Flushing			7,500	54,300	15,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			9,400	3,000	0
Other Meter Testing			54,010		10,000
C. Total Gallons Accounted For Loss			1,271,300	2,725,660	2,048,480
(B - C)			11,377,300	8,912,840	4,526,420
% Loss Unaccounted for			40%	33%	20%
= B - C					
A					
Gallons / Day Loss			367,010	318,315	146,013
Gallons Loss (G.P.M.)			255	221	101

<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR MARCH 2018</b>					
		<b># OF</b>	<b>DOLLAR</b>	<b>LAST</b>	<b>LAST</b>
		<b>CUSTOMERS</b>	<b>AMOUNT</b>	<b>MONTH</b>	<b>YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1567</b>	<b>\$28,145.27</b>	<b>\$28,153.23</b>	<b>\$19,887.56</b>
<b>A. Water Purchased</b>			<b>9,197,800</b>	<b>9,200,400</b>	<b>6,499,200</b>
<b>Sold</b>			<b>5,245,300</b>	<b>4,763,600</b>	<b>5,354,200</b>
<b>B. Difference - Loss</b>	<b>\$12,094.65</b>		<b>3,952,500</b>	<b>4,436,800</b>	<b>1,145,000</b>
<b>% Difference</b>			<b>44%</b>	<b>48%</b>	<b>18%</b>
<b>Water Sales</b>					<b>9,400</b>
<b>Breaks</b>			<b>809,600</b>	<b>967,040</b>	<b>453,500</b>
<b>Hydrant Flushing</b>			<b>14,000</b>	<b>18,500</b>	
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>			<b>3,700</b>		
<b>Other</b>			<b>52,720</b>		
<b>C. Total Gallons Accounted For Loss</b>			<b>880,020</b>	<b>985,540</b>	<b>462,900</b>
<b>Unaccounted For</b>					
<b>(B - C)</b>			<b>3,072,480</b>	<b>3,451,260</b>	<b>682,100</b>
<b>% Loss Unaccounted for</b>			<b>34%</b>	<b>38%</b>	<b>10%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>99,112</b>	<b>123,259</b>	<b>22,003</b>
<b>Gallons Loss (G.P.M.)</b>			<b>69</b>	<b>86</b>	<b>15</b>

**Mar-18**  
**Leaks and Flushings**

**KRAC Leaks**

3/6/2018	St Rt 3 3" coupling pulled apart	60,000
	Shepherds Br - 5gpm reg leaking	36,000
	Brushy Fork Rd 3" line pulled in slip	72,000
3/7/2018	E US Hwy 60 - leak 10gpm	86,400
	Blaine Creek Rd - 3" line 10-15gpm	108,000
	Nebo Road - 6" line leak 150gpm	216,000
3/8/2018	regulator leaking 10gpm	28,800
3/9/2018	St Rt 773 - pinhole 1" 5gpm (7 months)	50,400
	Roe Crk - leak on service line	10,000
	Katy Br - 1" line leaking	50,000
3/15/2018	Glenwood Rd 3" line pulled apart	60,000
3/16/2018	Katy Br - 1" line leaking	230,400
3/20-	Hwy 3399 small leak going into meter	8,000
3/19/2018	Silver Run & Whites Crk 8" line 8" bell pulled apart	100,000
3/22/2018	Road Dept hit 4" line on Silver Run	60,000
3/28/2018	Hwy 60 meter bottom dripping	10,000
3/30/2018	regulator leaking	14,400

**KRAC Flushings**

3/6/2018	Brooks Ln	1,000
3/7/2018	Nebo Rd	2,000
3/9/2018	Knotty Popular	1,000
3/22/2018	Whites Crk	3,500
	<b>TOTAL</b>	<b>7,500</b>

**TOTAL 1,200,400**

**Fire Departments**

Mar-18 Big Sandy VFD	1,000
East Fork VFD	No report
Mar-18 Norton Br VFD	8,400
<b>TOTAL</b>	<b>9,400</b>

**Dead or Theft of Service**

Mar-18 theft of service	41,380
theft of service	12,630
<b>TOTAL</b>	<b>54,010</b>

<b>Louisa Leaks</b>		<b>Louisa Flushings</b>	
3/5/2018	- McCracken Holw - reg leaking 15gpm	86,400	
3/13/2018	Leak on Rt 3 6" coupling 30gpm	130,000	
	Leak on Rt 3 past Rt 644 6" bell pulled apart 30gpm	172,800	
3/14/2018	Mouth of Donithon Rd - 6" line 6" wrap leaking	140,000	
3/15/2018	- Patrick Br Rd - 3/4" line pulled apart @ coupling 35gpm	50,400	
3/19/2018	Wilber Rd - service line	20,000	
3/29/2018	Donithon - 6" line split	115,000	
3/31/2018	Fullers Ridge - 3" line	95,000	
	<b>TOTAL</b>	<b>809,600</b>	
			<b>TOTAL</b>
			<b>14,000</b>

**Fire Departments**

	Cherryville VFD		No Report
	Mar-18 Lowmansville VFD		3,700
		<b>TOTAL</b>	<b>3,700</b>

**Dead or Theft of Service**

	Mar-18	- dead meter	5,400
		theft of service	12,820
		theft of service	34,500
		<b>TOTAL</b>	<b>52,720</b>



# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	32,019,100	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>32,019,100</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	13,984,400	
8	Commercial	343,800	
9	Industrial	3,400,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	543,700	
13	<b>TOTAL WATER SALES</b>	<b>18,272,300</b>	57.1%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	11,200	
19	Fire Department		
20	Other <u>dead meters/testing meters</u>		
21	<b>TOTAL OTHER WATER USED</b>	<b>11,200</b>	0.0%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	3,172,180	
26	Line Leaks	10,563,420	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>13,735,600</b>	42.9%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		<b>42.9%</b>

**BIG SANDY WATER LOSS REPORT**

**FOR APRIL 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1152	\$26,789.54	\$36,032.52	\$24,168.39
<b>RATTLESNAKE</b>	<b>\$3.82</b>	107	\$1,609.75	\$2,277.10	\$1,482.16
<b>ASHLAND</b>	<b>\$2.19</b>	1278	\$19,050.81	\$20,456.79	\$23,842.53
<b>CANNONSBURG</b>	<b>\$4.42</b>	649	\$17,344.96	\$19,958.95	\$3,665.95
<b>TOTAL</b>		<b>3186</b>	<b>\$64,795.06</b>	<b>\$78,725.36</b>	<b>\$71,588.19</b>
A. Water Purchased			23,550,300	28,583,100	21,582,200
Sold			13,406,900	15,934,500	14,212,400
B. Difference - Loss		\$27,885.96	10,143,400	12,648,600	7,369,800
% Difference			43%	45%	34%
Water Sales					3,500
Breaks			2,060,320	1,200,400	1,977,000
Hydrant Flushing			4,500	7,500	11,900
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates				9,400	1,000
Other Meter Testing				54,010	20,000
C. Total Gallons Accounted For Loss			2,064,820	1,271,300	2,013,400
(B - C)			8,078,580	11,377,300	5,356,400
% Loss Unaccounted for			35%	40%	25%
= B - C					
A					
Gallons / Day Loss			269,286	367,010	178,547
Gallons Loss (G.P.M.)			187	255	124

**BIG SANDY WATER LOSS REPORT**

**FOR APRIL 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1563</b>	<b>\$25,914.52</b>	<b>\$28,145.27</b>	<b>\$18,429.16</b>
<b>A. Water Purchased</b>			<b>8,468,800</b>	<b>9,197,800</b>	<b>6,022,600</b>
<b>Sold</b>			<b>4,865,400</b>	<b>5,245,300</b>	<b>4,751,400</b>
<b>B. Difference - Loss</b>	<b>\$11,026.40</b>		<b>3,603,400</b>	<b>3,952,500</b>	<b>1,271,200</b>
<b>% Difference</b>			<b>43%</b>	<b>44%</b>	<b>21%</b>
<b>Water Sales</b>					<b>3,500</b>
<b>Breaks</b>			<b>1,111,860</b>	<b>809,600</b>	<b>407,300</b>
<b>Hydrant Flushing</b>			<b>6,700</b>	<b>14,000</b>	<b>12,000</b>
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>				<b>3,700</b>	<b>500</b>
<b>Other</b>				<b>52,720</b>	
<b>C. Total Gallons Accounted For Loss</b>			<b>1,118,560</b>	<b>880,020</b>	<b>423,300</b>
<b>(B - C)</b>			<b>2,484,840</b>	<b>3,072,480</b>	<b>847,900</b>
<b>% Loss Unaccounted for</b>			<b>30%</b>	<b>34%</b>	<b>14%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>82,828</b>	<b>99,112</b>	<b>28,263</b>
<b>Gallons Loss (G.P.M.)</b>			<b>58</b>	<b>69</b>	<b>20</b>

**Leaks & Flushing  
Apr-18**

<b>KRAC Leaks</b>		<b>Flushings</b>	
4/2/2018	Whites Crk 3" line washed out	576,000	4/3/2018 Pinehurst 1,500
	Glenwood Br Rd - 3" line pulled apart @ slip 30gpm	43,200	4/16/2018 Christy Ln 20mins 3,000
4/3/2018	Spankem Br 3" line pulled apart 30gpm	50,000	4,500
	Rt 3 3" line pulled apart 80gpm	115,200	
	Jacks Fork - tightened regulator leaking	4,320	
4/6/2018	Friendship - saddle busted 15gpm	21,600	<b>Fire Departments</b>
4/9/2018	US Rt 23 3/4" line leaking 5gpm	26,000	Apr-18 Big Sandy VFD 0
4/10/2018	Gillum Br	604,800	Apr-18 East Fork VFD No Report
4/11/2018	Lakewood 1 1/2 service line 15gpm @ 7days	151,200	Apr-18 Norton Branch VFD No Report
4/13/2018	Christy Ln - leak	43,200	
	Cunningham Hill - 2 leaks	14,400	
4/16/2018	Nebo Road - slip in road - 6" mainline	216,000	
4/19/2018	Stinson Rd leak tightened all fittings	28,800	
4/21/2018	Willow Tree - 3/4" service line 15gpm	43,200	
4/23/2018	Blaine Creek leak 4" bell split in slip 35gpm	50,400	
4/24/2018	Blaine Crk - leak in corp stop	57,600	
4/30/2018	Highway 2033 - water leak	14,400	
	<b>TOTAL</b>	<b>2,060,320</b>	

<b>Louisa Leaks</b>		<b>Flushings</b>	
4/2/2018 Torchlight Rd - S pipe leaking	8,640	4/6/2018 Cresley Br flushed	2,000
4/5/2018 - Gem Ln hit 1" service line 25gpm	36,000	4/11/2018 - Cresley Br 125x10mins	1,250
4/10/2018 Law Co Rd Dep - hit 3" waterline (Hickman)	5,000	- Yellowcreek 75x46mins	3,450
4/11/2018 Gem Ln - service line came apart	8,000	<b>TOTAL</b>	<b>6,700</b>
4/13/2018 Brushy Crk	648,000		
4/18/2018 - Meades Branch	5,900	<b>Fire Departments</b>	
4/19/2018 : - Hwy 1690 meter bottom leaking 1gpm	25,920	Apr-18 Cherryville VFD	No Report
- Horse Picture busted meter bottom & reg	259,200	Apr-18 Lowmansville VFD	0
4/22/2018 Timberlake Dr - 3" leak 20gpm 4hrs.	115,200		
<b>TOTAL</b>	<b>1,111,860</b>		

**Theft of Service/ Dead Meters**

4/25/2018 11141 S Hwy 3 straight pipe

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	33,353,000	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>33,353,000</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	18,635,400	
8	Commercial	433,500	
9	Industrial	2,201,600	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	548,300	
13	<b>TOTAL WATER SALES</b>	<b>21,818,800</b>	65.4%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	41,000	
19	Fire Department	10,800	
20	Other <u>Dead meters</u>	7,900	
21	<b>TOTAL OTHER WATER USED</b>	<b>59,700</b>	0.2%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	3,126,400	
26	Line Leaks	8,348,100	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>11,474,500</b>	34.4%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		<b>34.4%</b>

<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR MAY 2018</b>					
		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1154	\$26,766.33	\$26,789.54	\$24,475.41
<b>RATTLESNAKE</b>	<b>\$3.82</b>	105	\$2,172.43	\$1,609.75	\$1,663.61
<b>ASHLAND</b>	<b>\$2.19</b>	1280	\$19,572.03	\$19,050.81	\$19,598.31
<b>CANNONSBURG</b>	<b>\$4.42</b>	648	\$21,040.53	\$17,344.96	\$16,667.82
<b>TOTAL</b>			\$69,551.32	\$64,795.06	\$62,405.15
A. Water Purchased			24,762,600	23,550,300	22,753,700
Sold			15,838,300	13,406,900	16,833,900
B. Difference - Loss	\$25,117.85		8,924,300	10,143,400	5,919,800
% Difference			36%	43%	26%
Water Sales					
Breaks			897,200	2,060,320	2,365,760
Hydrant Flushing			12,000	4,500	32,100
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			10,800		15,500
Other Meter Testing			5,000		30,000
C. Total Gallons Accounted For Loss			925,000	2,064,820	2,443,360
(B - C)			7,999,300	8,078,580	3,476,440
% Loss Unaccounted for			33%	35%	15%
= B - C					
A					
Gallons / Day Loss			258,042	269,286	112,143
Gallons Loss (G.P.M.)			179	187	78

**BIG SANDY WATER LOSS REPORT**

**FOR MAY 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1578</b>	<b>\$26,286.62</b>	<b>\$25,914.52</b>	<b>\$24,419.11</b>
<b>A. Water Purchased</b>			<b>8,590,400</b>	<b>8,468,800</b>	<b>7,980,100</b>
<b>Sold</b>			<b>6,078,800</b>	<b>4,865,400</b>	<b>6,057,800</b>
<b>B. Difference - Loss</b>	<b>\$7,685.50</b>		<b>2,511,600</b>	<b>3,603,400</b>	<b>1,922,300</b>
<b>% Difference</b>			<b>30%</b>	<b>43%</b>	<b>24%</b>
<b>Water Sales</b>					
<b>Breaks</b>			<b>1,278,420</b>	<b>1,111,860</b>	<b>760,640</b>
<b>Hydrant Flushing</b>			<b>29,000</b>	<b>6,700</b>	<b>87,000</b>
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>					
<b>Other</b>			<b>2,900</b>		
<b>C. Total Gallons Accounted For Loss</b>			<b>1,310,320</b>	<b>1,118,560</b>	<b>847,640</b>
<b>(B - C)</b>			<b>1,201,280</b>	<b>2,484,840</b>	<b>1,074,660</b>
<b>% Loss Unaccounted for</b>			<b>14%</b>	<b>30%</b>	<b>13%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>38,751</b>	<b>82,828</b>	<b>34,666</b>
<b>Gallons Loss (G.P.M.)</b>			<b>27</b>	<b>58</b>	<b>24</b>



**Leaks and Flushings**

<b>KRAC Leaks</b>	<b>May-18</b>	<b>KRAC Flushings</b>	
5/1/2018 Bolts Fork	25,000	5/8/2018 Fannin Cemetary Rd	4,000
5/4/2018 Zelda Loop - contractor hit 3" line	50,000	5/18/2018 Long Branch	6,000
5/7/2018 Nebo - 6" line @ slip	125,000	5/25/2018 Brooks Road	2,000
5/8/2018 - cracked meter bottom	14,400	<b>TOTAL</b>	<b>12,000</b>
- Fannin Cemetary 3" valve	5,000		
5/9/2018 - Panther 3/4" line split 15gpm	172,800	<b>Fire Departments</b>	
- Roe Crk air release split - leaking 10gpm	115,200	5/3/2018 Big Sandy VFD	4,000
5/11-5/15 Bear Creek Apts - leak 1" service line 20gpm	115,200	May-18 East Fork VFD	No report
5/14/2018 Nebo - 6" main	125,000	May-18 Norton Br VFD	6,800
5/16/2018 - Cherrywood Dr - 1" service line leak	15,000	<b>TOTAL</b>	<b>10,800</b>
5/24/2018 - 4-mile service line repaired	5,000		
5/29/2018 Geiger Ln - Regulator leaking	57,600	<b>Theft or Dead Meters</b>	
5/31/2018 - 4 mile 3/4" service line 50gpm	72,000	5/18/2018	5,000
<b>TOTAL</b>	<b>897,200</b>	<b>TOTAL</b>	<b>5,000</b>

<b>Louisa Leaks</b>		<b>Louisa Flushings</b>	
5/2/2018 Swan Br - s-pipe leaking	9,000	5/7/2018 - Cresley Br	3,600
5/7/2018 Cedgap-Hwy 32 - 6" line creek crossing	100,000	5/9/2018 - Meades Br	4,500
5/8/2018 - Sourwood - regulator leaking 10gpm	28,800	- Thompson Frk	4,900
5/10/2018 - Rt 3 3/4" line split 10gpm	129,600	5/15/2018 - Long Br	6,000
3/28-5/14 - See Br - valve leaking	175,680	5/25/2018 - Nats Crk	5,000
4/13-5/16 - Timberlake 3" bell leaking 5gpm	129,600	Blow off @ the end of 1690	5,000
5/15/2018 - Brookside Rd meter bottom 1gpm	20,160	<b>TOTAL</b>	<b>29,000</b>
- Meades Br	5,900		
5/17/2018 - Sourwood - meter bottom leaking 2gpm	46,080	<b>Fire Departments</b>	
5/23/2016 - & Rt 1690 3" line leaking 20gpm	633,600	May-18 Cherryville VFD	No Report
<b>TOTAL</b>	<b>1,278,420</b>	May-18 Lowmansville VFD	0

**Theft or Dead Meters**

5/3/2018	2,900
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Emailed 8/17/18  
PSC

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	34,384,900	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>34,384,900</b>	
5	<b>WATER SALES</b>		
7	Residential	17,728,600	
8	Commercial	423,100	
9	Industrial	2,106,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	389,000	
13	<b>TOTAL WATER SALES</b>	<b>20,647,100</b>	60.0%
14	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	27,750	
19	Fire Department	6,000	
20	Other <u>Dead meter / meter testing</u>	7,100	
21	<b>TOTAL OTHER WATER USED</b>	<b>40,850</b>	0.1%
22	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	1,697,760	
26	Line Leaks	11,999,190	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>13,696,950</b>	39.8%
29	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
30			
31	<b>WATER LOSS PERCENTAGE</b>		
32			
33	Unaccounted-For Water (Line 28 divided by Line 4)		<b>39.8%</b>

BIG SANDY WATER LOSS REPORT					
FOR JUNE 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1568	\$30,046.40	\$26,766.33	\$29,983.92
RATTLESNAKE	\$3.82	105	\$1,900.07	\$2,172.43	\$1,823.67
ASHLAND	\$2.19	1279	\$18,768.30	\$19,572.03	\$20,448.03
CANNONSBURG	\$4.42	654	\$21,774.25	\$21,040.53	\$18,108.74
<b>TOTAL</b>		<b>3606</b>	<b>\$72,513.11</b>	<b>\$69,551.32</b>	<b>\$70,364.36</b>
A. Water Purchased			25,787,600	24,762,600	25,669,800
Sold			14,471,800	15,838,300	20,372,700
B. Difference - Loss	\$32,457.08		11,315,800	8,924,300	5,297,100
% Difference			44%	36%	21%
Water Sales					
Breaks			1,368,000	897,200	1,753,760
Hydrant Flushing			17,750	12,000	7,500
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			6,000	10,800	
Other Meter Testing			3,200	5,000	15,000
C. Total Gallons Accounted For Loss			1,394,950	925,000	1,776,260
(B - C)			9,920,850	7,999,300	3,520,840
% Loss Unaccounted for			39%	33%	14%
= B - C					
A					
Gallons / Day Loss			330,695	258,042	117,361
Gallons Loss (G.P.M.)			230	179	81

BIG SANDY WATER LOSS REPORT					
FOR JUNE 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
Louisa Water District	\$3.06	1579	\$26,307.73	\$26,286.62	\$21,660.83
A. Water Purchased			8,597,300	8,590,400	7,078,700
Sold			6,175,300	6,078,800	6,511,800
B. Difference - Loss	\$7,411.32		2,422,000	2,511,600	566,900
% Difference			29%	30%	8%
Water Sales					
Breaks			329,760	1,278,420	740,800
Hydrant Flushing			10,000	29,000	4,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates					500
Other			3,900	2,900	
C. Total Gallons Accounted For Loss			343,660	1,310,320	745,300
(B - C)			2,078,340	1,201,280	0
% Loss Unaccounted for			25%	14%	
= B - C					
A					
Gallons / Day Loss			69,278	38,751	0
Gallons Loss (G.P.M.)			48	27	0

**Jun-18  
Leaks & Flushings**

**KRAC Leaks**

6/4/2018 Bush Ln - 1" PVC line busted 100gpm	80,000
6/6/2018 Pigeon Roost - 2" blow off 250gpm	60,000
5/2-6/7 Bowling - Rt 3 3/4" service line 7gpm	302,400
6/7/2018 - Trace Rd 3/4" line 25gpm	72,000
6/11/2018 Big Run Trace - 3/4" line Baptist Church 20gpm	160,000
Bear Creek - 1" line split 3	60,000
6/18/2018 - Jacks Fork usage difference	400
6/15/2018 - State Rt 3 meter bottom leaking 5gpm	100,800
- Long Br - regulator leaking 3gpm	64,800
Carson Ln 3/4" service line pin hole 5gpm	100,800
Chadwicks Crk - 1" line road dept hit	50,000
6/18/2015 - St Rt. 3 leaks in 1" pipe 30gpm	129,600
6/22/2018 Highway 773 just past Katy Br 20gpm	115,200
6/27/2018 - Whites Crk 3/4" line broke @ corp	72,000
<b>TOTAL</b>	<b>1,368,000</b>

**Flushings**

6/6/2018 Pigeon Roost	2,000
6/6/2018 Brooks Road	3,000
6/5/2018 Jordan Rd	2,500
6/14/2018 Blaine Creek end of Rt 23	5,000
6/28/2018 - St Rt 3	3,000
- Williams Creek	2,250
<b>TOTAL</b>	<b>17,750</b>

**Fire Departments**

6/25/2018 Big Sandy VFD	2,000
East Fork VFD	no report
6/7 & 6/25 Norton Branch VFD	4,000
<b>TOTAL</b>	<b>6,000</b>

**Theft of Service / Dead Meters**

<b>TOTAL</b>	<b>3,200</b>
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**Louisa Leaks**

6/5/2018 Blevins Frk 6" saddle broke 75gpm	108,000
6/4/2018 - Gem Ln s-pipe leaking 3wks. 2gpm	86,400
6/18/2018 - Gem Ln - s-pipe leaking 8gpm	11,520
6/19/2018 - Dry Meadow - reg leaking 2gpm	51,840
6/21/2018 Cedgap - 6" Saddle broke 50gpm	72,000
<b>TOTAL</b>	<b>329,760</b>

**Flushings**

6/25/2018 Highway 1690	2,000
Blow off @ Chapman	1,000
Flatbottom Dr	1,000
Nats Creek	4,000
US 23 Horse Picture	2,000
<b>TOTAL</b>	<b>10,000</b>

**Fire Departments**

Cherryville VFD	no report
Lowmansville VFD	0

**Theft of Service / Dead Meters**

<b>TOTAL</b>	<b>3,900</b>
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e-mailed  
PSC 9/20/10

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	33,094,200	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>33,094,200</b>	
5	<b>WATER SALES</b>		
6	<b>WATER SALES</b>		
7	Residential	16,872,900	
8	Commercial	438,500	
9	Industrial	3,328,900	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, fire departments, churches</u>	336,900	
13	<b>TOTAL WATER SALES</b>	<b>20,977,200</b>	63.4%
14	<b>OTHER WATER USED</b>		
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	38,000	
19	Fire Department	2,500	
20	Other <u>Meter testing</u>	27,300	
21	<b>TOTAL OTHER WATER USED</b>	<b>67,800</b>	0.2%
22	<b>WATER LOSS</b>		
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	4,680,300	
26	Line Leaks	7,368,900	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>12,049,200</b>	36.4%
29	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31	<b>WATER LOSS PERCENTAGE</b>		
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		36.4%

**BIG SANDY WATER LOSS REPORT**

**FOR JULY 2018**

**# OF  
CUSTOMERS**

**DOLLAR  
AMOUNT**

**LAST  
MONTH**

**LAST  
YEAR**

<b>KENOVA</b>	<b>\$2.55</b>	1151	\$28,828.26	\$30,046.40	\$28,638.54
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<b>RATTLESNAKE</b>	<b>\$3.82</b>	107	\$2,169.76	\$1,900.07	\$1,537.17
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<b>ASHLAND</b>	<b>\$2.19</b>	1274	\$19,039.86	\$18,768.30	\$19,359.60
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<b>CANNONSBURG</b>	<b>\$4.42</b>	651	\$22,926.10	\$21,774.25	\$13,260.07
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<b>TOTAL</b>		<b>3183</b>	\$72,963.98	\$72,513.11	\$62,795.38
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<b>A. Water Purchased</b>			25,754,100	25,787,600	23,474,800
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<b>Sold</b>			15,178,900	14,471,800	15,041,700
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<b>B. Difference - Loss</b>	<b>\$31,110.46</b>		10,575,200	11,315,800	8,433,100
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<b>% Difference</b>			41%	44%	36%
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**Water Sales**

<b>Breaks</b>			3,973,040	1,368,000	1,050,380
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<b>Hydrant Flushing</b>			17,500	17,750	28,000
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**Storage Tank Overflow**

**Pump House Use**

<b>Fire Department Use Fire Estimates</b>				6,000	14,000
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<b>Other Meter Testing</b>			24,800	3,200	5,000
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<b>C. Total Gallons Accounted For Loss</b>			4,015,340	1,394,950	1,097,380
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<b>(B - C)</b>			6,559,860	9,920,850	7,335,720
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<b>% Loss Unaccounted for</b>			26%	39%	31%
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**= B - C**

**A**

<b>Gallons / Day Loss</b>			211,608	330,695	236,636
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<b>Gallons Loss (G.P.M.)</b>			147	230	164
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<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR JULY 2018</b>					
		<b># OF</b>	<b>DOLLAR</b>	<b>LAST</b>	<b>LAST</b>
		<b>CUSTOMERS</b>	<b>AMOUNT</b>	<b>MONTH</b>	<b>YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1583</b>	<b>\$22,460.71</b>	<b>\$26,307.73</b>	<b>\$25,169.42</b>
<b>A. Water Purchased</b>			<b>7,340,100</b>	<b>8,597,300</b>	<b>8,225,300</b>
<b>Sold</b>			<b>5,798,300</b>	<b>6,175,300</b>	<b>5,055,600</b>
<b>B. Difference - Loss</b>	<b>\$4,717.91</b>		<b>1,541,800</b>	<b>2,422,000</b>	<b>3,169,700</b>
<b>% Difference</b>			<b>21%</b>	<b>29%</b>	<b>39%</b>
<b>Water Sales</b>					
<b>Breaks</b>			<b>707,260</b>	<b>329,760</b>	<b>737,880</b>
<b>Hydrant Flushing</b>			<b>20,500</b>	<b>10,000</b>	<b>11,000</b>
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>			<b>2,500</b>		
<b>Other</b>			<b>2,500</b>	<b>3,900</b>	
<b>C. Total Gallons Accounted For Loss</b>			<b>732,760</b>	<b>343,660</b>	<b>748,880</b>
<b>(B - C)</b>			<b>809,040</b>	<b>2,078,340</b>	<b>2,420,820</b>
<b>% Loss Unaccounted for</b>			<b>11%</b>	<b>25%</b>	<b>29%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>26,098</b>	<b>69,278</b>	<b>78,090</b>
<b>Gallons Loss (G.P.M.)</b>			<b>18</b>	<b>48</b>	<b>54</b>



**Leaks & Flushings  
Jul-18**

<b>KRAC Leaks</b>			<b>Flushings</b>	
7/2/2018	- Glancy Frk busted meter bottom	72,000	7/20/2018	- Ross Rd 5,000
7/3/2018	- Hwy 773 -	25,800	7/23/2018	- Rt Frk Big Cat 2,000
7/4/2018	- service line leak	43,200	7/24/2018	- Highway 1 3,000
7/5/2018	- E US Hwy 60 - small leak	36,000	7/26/2018	- Tigger Br 30mins. 3,000
7/6-7/9	Trace Rd - leak under road 4gpm	151,200	7/28/2018	- Bowling Dr 1hr. 3" line 4,500
	- Brushy Frk Rd busted meter bottom & reg	25,000		<b>TOTAL 17,500</b>
7/9/2018	- Rt 60 - leak 4gpm	51,840		
7/10/2018	- E US Hwy 60 water leak 90gpm for 16hrs.	86,400	<b>Fire Departments</b>	
	Silver Run - busted meter bottom	360,000	July	Big Sandy VFD 0
	- Dog Frk Laurel - small leak	1,000		East Fork VFD No report
7/11/2018	- Kendall Ln - meter bottom 5gpm	79,200		Norton Br VFD No report
7/11/2018	- Long Br water leak	126,720		
7/12/2018	Valve changed out Rush Hill	35,000		
7/13/2018	- Whites Crk - 3/4" line 10gpm	100,800	<b>Theft of Services / Dead Meters</b>	
7/16/2018	- Blaine Crk 3/4" service line 15gpm - 2 leaks	345,600		- Hwy 1496 7,700
7/20/2018	- S Hwy 207 - leak at meter	288,000		Stapleton Court Lot #4 13,800
	- Willow Tree - leak	100,800		3,300
6/12-7/20	- Bolts Frk between meter & crk 4-5gpm	144,000		<b>TOTAL 24,800</b>
	- Rt 854 3/4" line split 20gpm	432,000		
7/22/2018	- Route #1 4" line split	120,000		
7/23/2018	- Cub Ln 3/4" line split 15gpm	64,800		
7/27/2018	Shepherds Br & Rt 3 - 4" lines	55,000		
7/25/2018	Bear Crk - Miles pinhole 1" 5gpm	108,000		
7/26/2018	- Long Br - small leak	211,680		
7/29/2018	- Rt 854 3/4" line split 25gpm	108,000		
7/30/2018	- 8" line split 30gpm	576,000		
	<b>TOTAL</b>	<b>3,973,040</b>		

<b>Louisa Leaks</b>		<b>Flushings</b>		
7/2/2018	- Dry Ridge	5,100	7/16/2018 - Thompson Frk	4,500
7/3/2018	Pt. Section & Rt 3 6" line break	150,000	- Hwy 1690	3,500
	Highway 644 - S-pipe leaking 2gpm	6,000	Nats Crk	3,500
	Gem Ln - meter bottom leaking 2gpm	6,000	7/17/2018 - Morgans Crk	3,000
7/11/2018	- Rt Fork Georges Crk s-pipe 4gpm	63,360	- Ash Br	3,000
7/13/2018	Cedgap - creek crossing blew out 6" split	300,000	7/18/2018 - Lake Rdg	1,000
7/19/2018	- Garden Br - s-pipe leaking 2-5gpm	136,800	7/20/2018 - Clay Ln 20 mins.	2,000
7/30/2018	- Fuller Ridge Rd - meter bottom leaking	25,000	<b>TOTAL</b>	<b>20,500</b>
7/28/2018	- Morgans Crk - S-pipe leaking	15,000		
	<b>TOTAL</b>	<b>707,260</b>		

**Fire Departments**

July	Cherryville VFD	No report
18-Jul	Lowmansville VFD	2,500

**Theft of Services / Dead Meter**

2,500

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (One 100's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	34,892,800	
4	<b>TOTAL PRODUCED AND PURCHASED</b>		
5			
6	<b>WATER SALES</b>		
7	Residential	17,539,200	
8	Commercial	442,100	
9	Industrial	2,590,000	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	382,000	
13	<b>TOTAL WATER SALES</b>		60.1%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	87,900	
19	Fire Department	2,000	
20	Other <u>Dead/Theft/Pumphouse</u>	26,700	
21	<b>TOTAL OTHER WATER USED</b>		0.3%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	4,353,760	
26	Line Leaks	9,469,140	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>		39.6%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		

BIG SANDY WATER LOSS REPORT					
FOR AUGUST 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1150	\$39,689.99	\$28,828.26	\$24,869.64
RATTLESNAKE	\$3.82	106	\$3,299.33	\$2,169.76	\$1,656.73
ASHLAND	\$2.19	1271	\$18,417.90	\$19,039.86	\$21,775.17
CANNONSBURG	\$4.42	651	\$13,229.06	\$22,926.10	\$5,772.08
<b>TOTAL</b>		<b>3178</b>	<b>\$74,636.28</b>	<b>\$72,963.98</b>	<b>\$54,073.62</b>
A. Water Purchased			27,831,400	25,754,100	21,445,400
Sold			14,852,500	15,178,900	14,600,500
B. Difference - Loss	\$33,354.55		12,978,900	10,575,200	6,844,900
% Difference			47%	41%	32%
Water Sales			1,700		
Breaks			3,881,280	3,973,040	2,550,800
Hydrant Flushing			81,900	17,500	33,650
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			2,000		4,200
Other Meter Testing			25,000	24,800	
C. Total Gallons Accounted For Loss			3,991,880	4,015,340	2,588,650
Unaccounted For			8,987,020	6,559,860	4,256,250
(B - C)					
% Loss Unaccounted for			32%	26%	20%
= B - C					
A					
Gallons / Day Loss			289,904	211,608	137,298
Gallons Loss (G.P.M.)			201	147	95

BIG SANDY WATER LOSS REPORT					
FOR AUGUST 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
Louisa Water District	\$3.06	1576	\$21,607.89	\$22,460.71	\$23,511.81
A. Water Purchased			7,061,400	7,340,100	7,683,600
Sold			6,100,800	5,798,300	5,945,400
B. Difference - Loss	\$2,939.44		960,600	1,541,800	1,738,200
% Difference			14%	21%	23%
Water Sales					
Breaks			472,480	707,260	202,800
Hydrant Flushing			6,000	20,500	21,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use				2,500	
Other				2,500	
C. Total Gallons Accounted For Loss			478,480	732,760	223,800
Unaccounted For			482,120	809,040	1,514,400
(B - C)					
% Loss Unaccounted for			7%	11%	20%
= B - C					
A					
Gallons / Day Loss			15,552	26,098	48,851
Gallons Loss (G.P.M.)			11	18	34

**Leaks & Flushing  
Aug-18**

**KRAC Leaks**

7/27-8/7	- Durbin Rd - 3/4" line 5gpm	100,800
8/6/2018	- Linda Cir - 3/4" line split 10gpm	86,400
8/3-8/9	- Cactus Rd - 3/4" line pinhole 5gpm	64,800
8/7/2018	- Rt 3 - 4" line	175,000
8/9/2018	- St Hwy 773 - changed meter bottom 3-4gpm	51,840
	- St Hwy 1654 - 3/4" line split 20gpm	259,200
8/10/2018	Gillum Branch - 2" line	360,000
8/7/2018	Long Br - 3/4" line split 10gpm	100,800
8/10-8/13	Four Mile Rd - water leak 6" tapping sleeve 20gpm	288,000
8/13/2018	- Burchett Br - leak 10gpm	14,400
8/14/2018	- Mockingbird Trl - 3" line 25gpm	504,000
	- Davis Br 3/4" 5-6gpm	80,640
	- E US Hwy 60 - meter bottom cracked	75,000
	Davis Br - 8" line contractors hit	275,000
8/16/2018	-Friendship 8" line split	245,000
8/18/2018	- Creek crossing	75,000
8/20/2018	- Silver Run meter bottom 8gpm	34,800
8/15-8/22	- Rt 854 meter bottom 2gpm	43,200
8/24/2018	-Hwy 773 3/4" line snapped at corp 40gpm	125,000
8/23/2018	- Rt 23 20'joint 12" line split	600,000
8/28/2018	Sage Ln - water leak	100,800
	Diamond Lines - 3/4" line split 5gpm	201,600
8/30/2018	- Long Br - regulator leaking	20,000
	<b>TOTAL</b>	<b>3,881,280</b>

**KRAC Flushings**

7/31/2018	- Tigger Br 40mins	4,000
8/1/2018	- Dog Fork	2,000
8/8/2018	- Hwy 1 30mins	3,000
8/9/2018	- Hwy 3399	5,000
	- Blaine Crk	1,000
8/17/2018	- Brooks Dr	2,000
	- Kendall Ln 20mins.	3,500
8/18/2018	Long Branch (Les)	8,000
8/19/2018	Long Branch (Les)	12,000
8/20/2018	- Clay Jack 30mins.	6,000
	- Blue Ribbon 32minsx75gpm	2,400
	- Old Trace Rd 20mins.	4,000
	- Bear Creek	15,000
8/21/2018	-Riva Ridge 75x100	7,500
8/22/2018	Burchett Br	3,500
8/29/2018	- Durbin Rd	3,000
	<b>TOTAL</b>	<b>81,900</b>

**Fire Departments**

8/13/2018	Big Sandy VFD	2,000
	East Fork VFD	0
	Norton Branch VFD	0
	<b>TOTAL</b>	<b>2,000</b>

**Theft of Service/Dead Meters**

8/21/2018	- Trace Rd	1,700
	<b>TOTAL</b>	<b>1,700</b>

Louisa Leaks		Louisa Flushings			
8/6/2018	- Victoria Heights - meter bottom	10,000	8/7/2018	- Youngs Br - 35 mins	3,500
	Hwy 1760 & Rt 23 - 6" line split	150,000	8/16/2018	- Hwy 1690 20mins	2,500
8/21/2018	- Hwy 23 - creek crossing out 30gpm	86,400		<b>TOTAL</b>	<b>6,000</b>
8/7-8/30	- Woodlands Dr -meter bottom 5gpm	165,600	Fire Departments		
8/30/2018	- meter bottom 3gpm	60,480	Aug-18	Cherryville VFD	No report
	<b>TOTAL</b>	<b>472,480</b>		Lowmansville VFD	0

# PUBLIC SERVICE COMMISSION

*emailed PSC  
11/30/18*

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Or LBS)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	29,764,400	
4	<b>TOTAL PRODUCED AND PURCHASED</b>		
5			
6	<b>WATER SALES</b>		
7	Residential	13,417,100	
8	Commercial	305,800	
9	Industrial	2,931,500	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	306,100	
13	<b>TOTAL WATER SALES</b>		16,950,000 57.0%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	6,500	
19	Fire Department	4,000	
20	Other <u>dead meters/pumphouse</u>	75,000	
21	<b>TOTAL OTHER WATER USED</b>		85,500 0.3%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	3,367,180	
26	Line Leaks	9,351,220	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>		12,718,400 42.7%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		



**BIG SANDY WATER LOSS REPORT**

**FOR SEPTEMBER 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1151	\$27,849.57	\$39,689.99	\$21,385.07
<b>RATTLESNAKE</b>	<b>\$3.82</b>	106	\$2,054.40	\$3,299.33	\$1,368.71
<b>ASHLAND</b>	<b>\$2.19</b>	1271	\$24,273.96	\$18,417.90	\$21,617.49
<b>CANNONSBURG</b>	<b>\$4.42</b>	646	\$37.57	\$13,229.06	\$8,782.54
<b>TOTAL</b>		<b>3174</b>	<b>\$54,215.50</b>	<b>\$74,636.28</b>	<b>\$53,153.81</b>
<b>A. Water Purchased</b>			22,551,700	27,831,400	20,602,600
<b>Sold</b>			12,321,700	14,852,500	13,172,200
<b>B. Difference - Loss</b>	<b>\$24,478.66</b>		10,230,000	12,978,900	7,430,400
<b>% Difference</b>			45%	47%	36%
<b>Water Sales</b>				1,700	
<b>Breaks</b>			2,624,180	3,881,280	1,827,900
<b>Hydrant Flushing</b>			4,000	81,900	10,700
<b>Storage Tank Overflow</b>			0		
<b>Pump House Use</b>			0		
<b>Fire Department Use Fire Estimates</b>			4,000	2,000	6,450
<b>Other Meter Testing</b>			75,000	25,000	
<b>C. Total Gallons Accounted For Loss</b>			2,707,180	3,991,880	1,845,050
<b>Unaccounted For</b>			7,526,820	8,987,020	5,585,350
<b>(B - C)</b>					
<b>% Loss Unaccounted for</b>			33	32%	27%
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			250,894	289,904	186,178
<b>Gallons Loss (G.P.M.)</b>			174	201	129

**BIG SANDY WATER LOSS REPORT**

**FOR SEPTEMBER 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1578</b>	<b>\$22,070.87</b>	<b>\$21,607.89</b>	<b>\$23,702.15</b>
<b>A. Water Purchased</b>			<b>7,212,700</b>	<b>7,061,400</b>	<b>7,745,800</b>
Sold			<b>4,639,500</b>	<b>6,100,800</b>	<b>5,019,000</b>
<b>B. Difference - Loss</b>	<b>\$7,873.99</b>		<b>2,573,200</b>	<b>960,600</b>	<b>2,726,800</b>
% Difference			<b>36%</b>	<b>14%</b>	<b>35%</b>
Water Sales					
Breaks			<b>743,000</b>	<b>472,480</b>	<b>464,680</b>
Hydrant Flushing			<b>2,500</b>	<b>6,000</b>	<b>9,000</b>
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates					<b>250</b>
Other					
<b>C. Total Gallons Accounted For Loss</b>			<b>745,500</b>	<b>478,480</b>	<b>473,930</b>
Unaccounted For			<b>1,827,700</b>	<b>482,120</b>	<b>2,252,870</b>
(B - C)					
% Loss Unaccounted for			<b>25%</b>	<b>7%</b>	<b>29%</b>
= B - C					
A					
<b>Gallons / Day Loss</b>			<b>60,923</b>	<b>15,552</b>	<b>75,095</b>
<b>Gallons Loss (G.P.M.)</b>			<b>42</b>	<b>11</b>	<b>52</b>

Leaks and Flushings  
Sep-18

KACR Leaks		KACR Flushings		
9/6/2018	Glancy Frk meter bottom 7gpm	60,480	9/4/2018 - Hultz Rd	2,000
9/9/2018	Durbin Rd - Creek bank broke off took 4" line	75,000	9/26/2018 - Pigeon Roost 20 mins.	2,000
9/11/2018	Seedtick - 80' of 3" line creek bank 100gpm	65,000	<b>TOTAL</b>	<b>4,000</b>
	Blaine Creek - water leak	same		
9/13/2018	Bolts Fork - 20gpm	374,400		
9/14/2018	Mill Branch - leak 1" service line 5gpm	100,800		
8/31-9/14	Pine Ct - leak 10gpm (15 days)	216,000		
9/15/2018	Mill Branch - leak 15gpm	151,200		
7/3-9/26	Burchett Br water leak 7-8gpm	299,520		
8/15-9/27	Hwy 60 water leak 5gpm	108,000	<b>Fire Departments</b>	
9/18-9/27	N St Hwy 207 water leak 10gpm	259,200	Sept Big Sandy VFD	3,500
9/21/2018	Hwy 707 3/4" line	151,200	East Fork VFD	0
9/26/2018	E US Hwy 60 - meter bottom leaking 3gpm	112,320	Norton Br VFD	500
9/24/2018	Long Br - 60' 4" creek bank broke off	50,000	<b>TOTAL</b>	<b>4,000</b>
9/24-10/1	Rt 854 - couldn't find to turn off.	12,100		
9/24/2018	St Hwy 773 10gpm	345,600		
9/28/2018	coupling by 3" 90	21,600		
	Blaine Crk - 3/4" service line 10gpm	100,800		
9/28/2018	Needmore - reg leaking 3gpm	120,960		
	<b>TOTAL</b>	<b>2,624,180</b>		

Louisa Leaks		Louisa Flushings		
9/7/2018	See Br 4" line split	75,000	9/18/2018 - Hwy 2565	2,500
9/11/2018	Raven Rock - 3" line split under road 20gpm	316,800		
	Raven Rock - 3" coupling 10gpm	75,000		
9/13/2018	Cedgap - County hit 3"	75,000	<b>Fire Departments</b>	
9/5-9/21	Cedgap 3/4" leak 5gpm	151,200	Sept Cherryville VFD	No Report
9/27/2018	Beasley Br - water leak 40gpm	50,000	Lowmansville VFD	0
	<b>TOTAL</b>	<b>743,000</b>		

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM		
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased		30,327,800
4	<b>TOTAL PRODUCED AND PURCHASED</b>		
5			
6	<b>WATER SALES</b>		
7	Residential		14,576,400
8	Commercial		404,100
9	Industrial		3,030,300
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales	<u>schools, churches, fire departments</u>	372,400
13	<b>TOTAL WATER SALES</b>		60.6%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing		13,000
19	Fire Department		12,250
20	Other	<u>Tested meters</u>	75,000
21	<b>TOTAL OTHER WATER USED</b>		0.3%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks		1,695,480
26	Line Leaks		10,148,870
27	Other	<u>_____</u>	
28	<b>TOTAL LINE LOSS</b>		39.1%
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>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR OCTOBER 2018</b>					
		<b># OF</b>	<b>DOLLAR</b>	<b>LAST</b>	<b>LAST</b>
		<b>CUSTOMERS</b>	<b>AMOUNT</b>	<b>MONTH</b>	<b>YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1146	\$27,849.57	\$27,849.57	\$19,000.05
<b>RATTLESNAKE</b>	<b>\$3.82</b>	105	\$3,338.68	\$2,054.40	\$1,972.27
<b>ASHLAND</b>	<b>\$2.19</b>	1269	\$21,269.28	\$24,273.96	\$24,221.40
<b>CANNONSBURG</b>	<b>\$4.42</b>	639	\$8,084.62	\$37.57	\$2,892.89
<b>TOTAL</b>		<b>3159</b>	<b>\$60,542.15</b>	<b>\$54,215.50</b>	<b>\$48,086.61</b>
<b>A. Water Purchased</b>			23,336,500	2,251,700	19,679,800
<b>Sold</b>			13,161,700	12,321,700	12,706,800
<b>B. Difference - Loss</b>	<b>\$24,694.87</b>		10,174,800	10,230,000	6,973,000
<b>% Difference</b>			44%	45%	35%
<b>Water Sales</b>					
<b>Breaks</b>			1,327,480	2,624,180	1,025,740
<b>Hydrant Flushing</b>			7,000	4,000	7,000
<b>Storage Tank Overflow</b>			0	0	
<b>Pump House Use</b>			0	0	
<b>Fire Department Use Fire Estimates</b>			7,000	4,000	20,000
<b>Other Meter Testing</b>			75,000	75,000	
<b>C. Total Gallons Accounted For Loss</b>			1,416,480	2,707,180	1,052,740
<b>Unaccounted For</b>			8,758,320	7,526,820	5,920,260
<b>(B - C)</b>					
<b>% Loss Unaccounted for</b>			38%	33%	30%
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			282,526	250,894	190,976
<b>Gallons Loss (G.P.M.)</b>			196	174	133

**BIG SANDY WATER LOSS REPORT**

**FOR OCTOBER 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
Louisa Water District	\$3.06	1585	\$21,393.37	\$22,070.87	\$25,800.70
A. Water Purchased			6,991,300	7,212,700	8,431,600
Sold			5,221,500	4,639,500	5,664,700
B. Difference - Loss	\$5,415.59		1,769,800	2,573,200	2,766,900
% Difference			25%	36%	33%
Water Sales					
Breaks			368,000	743,000	681,600
Hydrant Flushing			6,000	2,500	14,700
Storage Tank Overflow					
Pump House Use					
Fire Department Use			5,250		
Other					
C. Total Gallons Accounted For Loss			379,250	745,500	696,300
Unaccounted For			1,390,550	1,827,700	2,070,600
(B - C)					
% Loss Unaccounted for			20%	25%	25%
= B - C					
A					
Gallons / Day Loss			44,856	60,923	66,794
Gallons Loss (G.P.M.)			31	42	46

**Leaks & Flushings  
Oct-18**

<b>KARC Leaks</b>		<b>KARC Flushings</b>	
10/1/2018	Jerry Riffe small leak	10/2/2018	Rt 3 20 mins. 2,500
10/6/2018	Highway 207 - service line leak 20gpm 172,800	10/15/2018	Burchett Br 30 mins. 3,000
10/1-10/9	S St Hwy 773 spline 3/4" 10gpm 200,000	10/25/2018	Hultz Rd 1,500
10/2-10/12	Rt 854 3/4" line split (corp stop) 15gpm 216,000	<b>TOTAL</b>	<b>7,000</b>
10/13/2018	Bear Crk/Blue Ribbon - leak 8" bell leaking 200,000		
10/1-10/12	Hwy 707 3/4" line split 10gpm 100,000		
10/18/2018	Glancy Frk small leak in meter 51,840		
10/19/2018	Glancy Fork - 3" line washed out 100,000	<b>Fire Departments</b>	
10/24/2018	Long Branch - bubbling up out of blacktop 50,000	October	Big Sandy VFD 7,000
10/31/2018	Glancy Fork - 3" line replaced line loss 5,000		East Fork VFD no report
10/3-10/31	Wilson Crk 3/4" line 4gpm 161,280		Norton Br VFD 0
10/24-10/31	St Rt 854 leak 7gpm 70,560	<b>TOTAL</b>	<b>7,000</b>
<b>TOTAL</b>	<b>1,327,480</b>		

<b>Louisa Leaks</b>		<b>Louisa Flushings</b>	
10/5/2018	Highway 581 - creek crossing 200,000	10/11/2018	Chestnut 1,000
	Hay Br - leak at meter (drip) 5,000	10/12/2018	Nats Crk 2,000
10/2-10/9	S Side Loop - 3/4" line 10gpm 70,000	10/15/2018	Holt St 30mins@100gpm 3,000
10/9/2018	S Highway 3 - meter bottom 25,000	<b>TOTAL</b>	<b>6,000</b>
	Cedgap - pump leaking 45,000		
10/25/2018	Morgans Crk 3" creek crossing replaced 20,000		
	- pouring out where we replaced 3,000		
<b>TOTAL</b>	<b>368,000</b>		

<b>Fire Departments</b>		
October	Cherryville VFD	no report
	Lowmansville VFD	5,250
<b>TOTAL</b>		<b>5,250</b>

*Emailed to PSC  
and Erin Dargatzis  
1/22/19.*

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	36,530,700	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>36,530,700</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	15,804,000	
8	Commercial	367,300	
9	Industrial	2,149,000	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	430,100	
13	<b>TOTAL WATER SALES</b>	<b>18,750,400</b>	51.3%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	29,000	
19	Fire Department	-	
20	Other <u>Theft/Dead Meters, Meter Testing</u>	93,500	
21	<b>TOTAL OTHER WATER USED</b>	<b>122,500</b>	0.3%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	2,379,440	
26	Line Leaks	15,278,360	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>17,657,800</b>	48.3%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		<b>48.3%</b>



<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR NOVEMBER 2018</b>					
		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1143	\$36,298.74	\$27,849.57	\$20,739.15
<b>RATTLESNAKE</b>	<b>\$3.82</b>	105	\$3,622.12	\$3,338.68	\$1,574.99
<b>ASHLAND</b>	<b>\$2.19</b>	1268	\$22,405.89	\$21,269.28	\$23,503.08
<b>CANNONSBURG</b>	<b>\$4.42</b>	639	\$14,626.22	\$8,084.62	\$3,505.50
<b>TOTAL</b>		<b>3155</b>	<b>\$76,952.97</b>	<b>\$60,542.15</b>	<b>\$49,322.72</b>
A. Water Purchased			28,723,100	23,336,500	20,070,400
Sold			13,134,300	13,161,700	12,710,600
B. Difference - Loss		\$40,459.66	15,588,800	10,174,800	7,359,800
% Difference			54%	44%	37%
Water Sales			18,500		
Breaks			2,152,800	1,327,480	916,660
Hydrant Flushing			29,000	7,000	11,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates				7,000	5,000
Other Meter Testing			75,000	75,000	
C. Total Gallons Accounted For Loss			2,275,300	1,416,480	932,660
Unaccounted For			13,313,500	8,758,320	6,427,140
(B - C)					
% Loss Unaccounted for			46%	38%	32%
= B - C					
A					
Gallons / Day Loss			443,783	282,526	214,238
Gallons Loss (G.P.M.)			308	196	149

**BIG SANDY WATER LOSS REPORT**

**FOR NOVEMBER 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
Louisa Water District	\$3.06	1584	\$23,891.26	\$21,393.37	\$21,506.59
A. Water Purchased			7,807,600	6,991,300	7,028,300
Sold			5,616,100	5,221,500	5,390,200
B. Difference - Loss	\$6,705.99		2,191,500	1,769,800	1,638,100
% Difference			28%	25%	23%
Water Sales					
Breaks			226,640	368,000	712,200
Hydrant Flushing				6,000	54,800
Storage Tank Overflow					
Pump House Use					
Fire Department Use				5,250	2,500
Other					277,100
C. Total Gallons Accounted For Loss			226,640	379,250	1,046,600
Unaccounted For			1,964,860	1,390,550	591,500
(B - C)					
% Loss Unaccounted for			25%	20%	8%
= B - C					
A					
Gallons / Day Loss			65,495	44,856	19,717
Gallons Loss (G.P.M.)			45	31	14

**Leaks and Flushings  
Nov-18**

<b>KRAC Leaks</b>		<b>KRAC Flushings</b>		
11/1-11/7	- Wilson Creek 3/4" line 4gpm	40,320	11/6/2018 - Cherrywood Dr	3,000
11/1-11/8	- St Rt 854 approx 7gpm	80,640	11/14/2018 - Tennis Ct	5,000
11/5/2018	- Buchanan Chapel 3/4" leak 10gpm	72,000	11/14/2018 - White Oak Dr	2,500
	- St Rt 3 nut leaking 2gpm	14,400	11/15/2018 Goldenrod	2,500
11/7/2018	- Mill Br - 3/4" leak 10gpm	72,000	11/19/2018 - Spankem Branch	4,000
11/11/2018	Blue Ribbon - 6" leak	200,000	- Highway 207 Jim ts	8,000
11/14/2018	- Lynnwood Dr - 3" line 75gpm	108,000	11/26/2018 - Highway 828 Bill & Tom ts	3,000
	- Rt 60 pigtail leaking	15,000	- US Hwy 60 10x100gpm	1,000
11/19/2018	Leak on Rt 60 - 6" line (2 days)	500,000	<b>TOTAL</b>	<b>29,000</b>
11/19/2018	Dave Ln leak 2" line 20gpm	547,200		
11/20/2018	-St Hwy 773 - valve leaking	10,000	<b>Fire Departments</b>	
11/21/2018	- Sycamore Ln 3/4" line 15gpm	21,600	Nov-18 Big Sandy VFD	0
11/22-11/23	Hwy 828 & Rt 1 3" line & bell 10gpm	43,200	East Fork VFD	0
11/23/2018	- Rt 3 3/4" line leak	150,000	Norton Br VFD	0
11/29/2018	Long Branch - 2" valve leaking	25,000		
11/8-11/30	- St Rt 854 leak 22 days	253,440	<b>Dead Meters</b>	
	<b>TOTAL</b>	<b>2,152,800</b>	Nov-18	4,000
				4,300
				2,900
				2,200
				4,200
				900
			<b>Total</b>	<b>18,500</b>

<b>Louisa Leaks</b>		<b>Louisa Flushings</b>		
11/1/2018	- Hwy 23 - s-pipe leaking 5gpm	216,000		0
11/2/2018	- Greenbriar Rd - meter bottom 1gpm	8,640		
11/2-11/7	- Hwy 644 - valve leaking (dripping)	1,000		
11/13/2018	Pt. Section - leak Randy's ts	1,000	<b>Fire Departments</b>	
	<b>TOTAL</b>	<b>226,640</b>	Nov-18 Cherryville VFD	no report
			Lowmansville VFD	0

# PUBLIC SERVICE COMMISSION

*Emailed  
copy to PSC  
2/21/19*

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	35,167,600	
4	<b>TOTAL PRODUCED AND PURCHASED</b>		
5			
6	<b>WATER SALES</b>		
7	Residential	14,925,000	
8	Commercial	270,900	
9	Industrial	2,850,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>churches, schools, fire departments</u>	332,300	
13	<b>TOTAL WATER SALES</b>	18,378,600	52.3%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	8,790	
19	Fire Department	7,000	
20	Other <u>Meter testing, dead meters</u>	21,600	
21	<b>TOTAL OTHER WATER USED</b>	37,390	0.1%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	2,014,500	
26	Line Leaks	14,737,110	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	16,751,610	47.6%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		

<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR DECEMBER 2018</b>					
		<b># OF</b>	<b>DOLLAR</b>	<b>LAST</b>	<b>LAST</b>
		<b>CUSTOMERS</b>	<b>AMOUNT</b>	<b>MONTH</b>	<b>YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1141	\$28,546.49	\$36,298.74	\$23,272.83
<b>RATTLESNAKE</b>	<b>\$3.82</b>	104	\$3,321.11	\$3,622.12	\$1,678.89
<b>ASHLAND</b>	<b>\$2.19</b>	1265	\$21,875.91	\$22,405.89	\$26,339.13
<b>CANNONSBURG</b>	<b>\$4.42</b>	639	\$22,009.83	\$14,626.22	\$2,997.20
<b>TOTAL</b>		<b>3149</b>	<b>\$75,753.34</b>	<b>\$76,952.97</b>	<b>\$54,288.05</b>
<b>A. Water Purchased</b>			27,032,700	28,723,100	22,271,200
<b>Sold</b>			12,872,500	13,134,300	15,325,600
<b>B. Difference - Loss</b>	<b>\$38,529.84</b>		14,160,200	15,588,800	6,945,600
<b>% Difference</b>			52%	54%	31%
<b>Water Sales</b>			3,500	18,500	
<b>Breaks</b>			1,726,400	2,152,800	864,520
<b>Hydrant Flushing</b>			6,790	29,000	5,000
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>					3,750
<b>Other Meter Testing</b>			6,000	75,000	16,900
<b>C. Total Gallons Accounted For Loss</b>			1,742,690	2,275,300	890,170
<b>Unaccounted For</b>			12,417,510	13,313,500	6,055,430
<b>(B - C)</b>					
<b>% Loss Unaccounted for</b>			46%	46%	27%
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			400,565	443,783	195,336
<b>Gallons Loss (G.P.M.)</b>			278	308	136

**BIG SANDY WATER LOSS REPORT**

**FOR DECEMBER 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
Louisa Water District	\$3.06	1582	\$24,892.79	\$23,891.26	20,640.31
A. Water Purchased			8,134,900	7,807,600	6,745,200
Sold			5,506,100	5,616,100	5,554,300
B. Difference - Loss	\$8,044.13		2,628,800	2,191,500	1,190,900
% Difference			32%	28%	18%
Water Sales			12,100		
Breaks			288,100	226,640	
Hydrant Flushing			2,000		35,200
Storage Tank Overflow					
Pump House Use					
Fire Department Use			7,000		
Other					610,100
C. Total Gallons Accounted For Loss			309,200	226,640	645,300
Unaccounted For			2,319,600	1,964,860	545,600
(B - C)					
% Loss Unaccounted for			29%	25%	8%
= B - C					
A					
Gallons / Day Loss			74,826	65,495	17,600
Gallons Loss (G.P.M.)			52	45	12

**Dec-18  
Leaks and Flushings**

<b>KARC Leaks</b>		<b>KARC Flushings</b>		
8/28-12/11	Callahan Rd - valve leaking	100,000	12/3/2018 - Hwy 828 70x75mins	5,250
12/5/2018	Rabbit Ln - 1" line leaking 20gpm	86,400	12/12/2018 - Hwy 828 30minsx3gpm	90
12/6/2018	St Rt 854 leak at meter	20,000	12/19/2018 - 15mins.	450
12/6/2018	Rt 854 3/4" line 7gpm	50,000	12/31/2018 - Silver Run	1,000
12/6/2018	Left Frk Mrgs Crk - 3" wrap leaking in creek	20,000	<b>Total</b>	<b>6790</b>
12/7/2018	Leak in Rush (Les)	20,000		
12/11/2018	US Hwy 60 water leak 8gpm	750,000	<b>Fire Department</b>	
12/13/2018	Long Br - water leak	20,000	Dec-18 Big Sandy VFD	0
12/17-12/18	Spankem Br - 3/4" line 20gpm	60,000	East Fork VFD	0
12/21/2018	Rush 207 South - 3" line washed out	100,000	Norton Br VFD	0
12/19/2018	Blaine Crk - 4" line hit by contractor	100,000	<b>Total</b>	<b>0</b>
	- Panther Ln leak	20,000		
12/20/2018	Blaine Crk - 4" line big slip 50gpm	50,000	<b>Dead Meters</b>	
	2 more leaks can't get to - valved off	100,000	Dec-18	3,500
12/20/2018	Long Branch	100,000		
12/20-12/26	Runyan Rd - 3/4" service line 7gpm	15,000		
12/27/2018	Silver Run 3/4" line 40gpm	100,000		
12/31/2019	Friendship Rd - s-pipe leaking	15,000		
	<b>Total</b>	<b>1,726,400</b>		

<b>Louisa Leaks</b>		<b>Louisa Flushings</b>		
12/3-12/5	Hylton Rd - leak 15gpm	80,000	12/19/2018 - Thompson Frk Rd	2,000
12/7/2018	Hwy 2037 - valve leaking	3,100		
12/10/2018	Cedgap 3" line split	50,000		
12/7/2018	Torchlight - leak 15gmp	15,000	<b>Fire Departments</b>	
12/13/2018	Highway 581 - meter bottom (Rusty)	20,000	Dec-18 Cherryville VFD	no report
9/28-12/13	Hwy 644 valve leaking outside	10,000	Lowmansville VFD	7000
	Hwy 581 valve leaking	10,000	<b>Total</b>	<b>7,000</b>
12/30/2018	Hewletti Br - 6" line split 20' joint (Wells Group)	100,000	<b>Dead Meters</b>	
	<b>Total</b>	<b>288,100</b>	Dec-18	5,200
				6,700
				200
			<b>Total</b>	<b>12,100</b>

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	37,222,600	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>37,222,600</b>	
5	<b>WATER SALES</b>		
7	Residential	15,582,800	
8	Commercial	284,700	
9	Industrial	2,615,900	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	314,700	
13	<b>TOTAL WATER SALES</b>	<b>18,798,300</b>	50.5%
14	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	4,000	
19	Fire Department	7,000	
20	Other _____		
21	<b>TOTAL OTHER WATER USED</b>	<b>11,000</b>	0.0%
22	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	2,095,000	
26	Line Leaks	16,318,500	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>18,413,500</b>	49.5%
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31	<b>WATER LOSS PERCENTAGE</b>		
32	Unaccounted-For Water (Line 28 divided by Line 4)		
33			



<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR JANUARY 2019</b>					
		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1141	\$32,127.71	\$28,546.49	\$29,962.76
<b>RATTLESNAKE</b>	<b>\$3.82</b>	104	\$2,734.36	\$3,321.11	\$3,297.81
<b>ASHLAND</b>	<b>\$2.19</b>	1259	\$25,182.81	\$21,875.91	\$27,797.67
<b>CANNONSBURG</b>	<b>\$4.42</b>	637	\$18,743.45	\$22,009.83	\$25,738.54
<b>TOTAL</b>		<b>3141</b>	<b>\$78,788.33</b>	<b>\$75,753.34</b>	<b>\$86,796.78</b>
<b>A. Water Purchased</b>			29,054,500	27,032,700	31,129,600
<b>Sold</b>			13,049,200	12,872,500	16,587,100
<b>B. Difference - Loss</b>	<b>\$42,426.22</b>		16,005,300	14,160,200	14,542,500
<b>% Difference</b>			55%	52%	47%
<b>Water Sales (Dead Meters)</b>			5,900	3,500	
<b>Breaks</b>			1,800,000	1,726,400	6,995,120
<b>Hydrant Flushing</b>			4,000	6,790	9,000
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>			1,000		3,700
<b>Other Meter Testing</b>				6,000	4,900
<b>C. Total Gallons Accounted For Loss</b>			1,805,000	1,742,690	7,012,720
<b>Unaccounted For</b>			14,200,300	12,417,510	7,529,780
<b>(B - C)</b>					
<b>% Loss Unaccounted for</b>			49%	46%	24%
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			458,074	400,565	242,896
<b>Gallons Loss (G.P.M.)</b>			318	278	169

**BIG SANDY WATER LOSS REPORT**

**FOR JANUARY 2019**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1584</b>	<b>\$24,994.38</b>	<b>\$24,892.79</b>	<b>\$34,144.40</b>
A. Water Purchased			8,168,100	8,134,900	11,158,300
Sold			5,748,900	5,506,100	6,650,900
B. Difference - Loss	<b>\$7,402.75</b>		2,419,200	2,628,800	4,507,400
% Difference			30%	32%	40%
Water Sales				12,100	
Breaks			295,000	288,100	1,845,280
Hydrant Flushing				2,000	2,500
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			6,000	7,000	4,500
Other					
C. Total Gallons Accounted For Loss			301,000	309,200	1,852,280
Unaccounted For			2,118,200	2,319,600	2,655,120
(B - C)					
% Loss Unaccounted for			26%	29%	24%
= B - C					
A					
Gallons / Day Loss			68,329	74,826	85,649
Gallons Loss (G.P.M.)			47	52	59

**Leaks and Flushings  
Jan-19**

<b>KRAC Leaks</b>		<b>KRAC Flushings</b>	
1/2/2019	Spankem Br/Virginia Dr - 3/4" line pulled apart 25gpm	10,000	1/25/2019 - Raquel Br 1,000
1/4/2019	- Fighting Frk meter bottom	5,000	1/29/2019 - E US Hwy 60 3,000
1/7/2019	- Wilber Rd - 1" service line	15,000	<b>TOTAL 4,000</b>
12/18-1/15	- E US Hwy 60 - service line 10gpm 28 days	400,000	
1/10/2018	- Fighting Frk 3" line	120,000	
1/16/2019	-Spankem Br - 3/4" line broke	10,000	
	Blaine Creek - check valve leaking	50,000	
1/18/2019	-Zelda leak 25gpm	110,000	<b>Fire Departments</b>
1/22/2019	- Cedar Pt regulator & S-pipe	10,000	Jan Big Sandy VFD 0
	- Nursery Dr - 3/4" service line 6gpm	160,000	East Fork VFD 0
1/25/2019	- Bush Ln meter bottom	10,000	Norton Br VFD 1,000
1/25/2019	Queen Ln - 2" line leak 2" bell pulled apart 30gpm	120,000	<b>TOTAL 1,000</b>
1/27/2019	Pinehurst - leak (weekend)	420,000	
1/28/2019	Cedar Dr - 3"x2" reducer leaking	100,000	<b>Dead Meters</b>
1/29/2019	Wilson Creek - leak (Rusty's TS)	10,000	Jan 5,900
	Elijah Br - 3" bell pulled apart 25gpm	150,000	
1/31/2019	- Trace Rd - 3/4"line 5gpm	50,000	
	State Rt 3 & Stanley Ln - 1" line 30gpm	50,000	
	<b>TOTAL</b>	<b>1,800,000</b>	

<b>Louisa Leaks</b>		<b>Louisa Flushings</b>	
1/2/2019	Elk Ln - leak 2" line busted in creek	100,000	
1/3/2019	Elk Ln - Co. Road Dept hit 2" line	50,000	
1/16/2019	- Crystal Ln 1" line 25gpm	50,000	<b>Fire Departments</b>
	Elk Ln - repaired 2" in creek	50,000	Jan Cherryville VFD no report
1/31/2019	- Hwy 2033 meter bottom & reg 10gpm	15,000	Lowmansville VFD 6,000
1/31/2019	- Bailey Ln - meter bottom 10-12gpm	30,000	<b>TOTAL 6,000</b>
	<b>TOTAL</b>	<b>295,000</b>	

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

29. We currently have a project to replace service lines that were originally put in with blue max pipe and creek crossings that continually fail.

We will advertise for bids early May for June 1<sup>st</sup> bid opening with 6 months construction time.

**Teresa Brown**

**Appendix # C****Case #2019-00041****Dated: March 12, 2019****30. Utility Management's five most critical projects:**

- 1. Service line replacement – to removal the old blue max and problem service lines, to help with water loss.**
- 2. Creek crossings – replace with Hdpe Pipe and install doing a directional bore to get the line deeper and not disturb the ground on the creek banks.**
- 3. Meter change outs**
- 4. Meter testing**
- 5. New and relocating pump stations**

**James Blanton**

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

31. David Blair was hired as Manager 5/22/17 in 2017 David made \$31,191.63. David quit 8/3/18 in 2018 David made \$42,372.08. Sherman McDaniels was hired as Maintenance Supervisor 10/4/18 in 2018 Sherman made \$10,083.62.

**Teresa Brown**

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**32. We do not have an employment contract.**

**Teresa Brown**

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

- 33. Big Sandy Water was formed in 1980-81. We also have had construction projects in 1988, 1995, 2001 and 2005. Also we have installed small lines during 1990-1998 years. 99% of our lines are PVC.**

**James Blanton**



**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**34. Our service lines consists of PVD, Poly (black roll pipe) and the blue max. We've had numerous leaks on the blue max, that's why we are doing a service line replacement project.**

**James Blanton**

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**35. We do have a map showing our main lines but it does not show our service connections or problem areas.**

**James Blanton**

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

36. We do not have a theft of service policy. When we catch someone we call 911. Most of the time a deputy comes and takes photos and either a warrant is issued or we give the party a chance to pay the bill in full. If a deputy does not show up, we take photos and take all information to courthouse and get the warrant ourselves.

**James Blanton****Bobbi Burton – We do refer to 807 KAR 5:006 Section 14(1)(g) attached.****Theft of Service form also attached.**



807 KAR 5:006 SECTION 14(1)(g)

REFUSAL OR TERMINATION OF SERVICE

(g) For illegal use or theft of service. A utility may terminate service to a customer without advance notice if it has evidence that a customer has obtained unauthorized service by illegal use or theft. Within twenty-four (24) hours after such termination, the utility shall send written notification to the customer of the reasons for termination or refusal of service upon which the utility relies, and of the customer's right to challenge the termination by filing a formal complaint with the <sup>PSC</sup> commission. This right of termination is separate from and in addition to any other legal remedies which the utility may pursue for illegal use or theft of service. The utility shall not be required to restore service until the customer has complied with all tariffed rules of the utility and laws and regulations of the commission.

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

- 37. Documentation is included.**
  - a. We go through the County Attorney's Office.**
  - b. County Attorney's Office. Documentation included.**

**James Blanton**

Big Sandy Water District  
**WORK ORDER 18318**

Account # [REDACTED]  
 Name [REDACTED]  
 Address 161 Cherryville Rd Louisa, KY 41230  
 Telephone (606) 679-4110 Job #

Order Date 12/2/2016  
 Status Regular  
 Scheduled 12/02/16 01:55 PM  
 Order Type Final

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 75505406	1490170074	2265		
Description	Lock on [REDACTED] has lock on it, stop and get key to unlock			
Comment	Final reading 2265 on 12/2/2016			
Requested By	Customer	Assigned To	Nathan Parson	Completed By [REDACTED]
Start Date	12/02/16 10:56 AM		Completed Date	12/02/16 10:56 AM

Notes

*Mark*  
 [REDACTED] wanted us to look off 12/2/16  
 Usage on meter at that 1,600 gallons.  
 [REDACTED] stated they had been living  
 there about a week  $1.6 \times 4 = 6,400$   
 gallons. [REDACTED] stated they  
 lived there 2 mths. Lock gone

[REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]

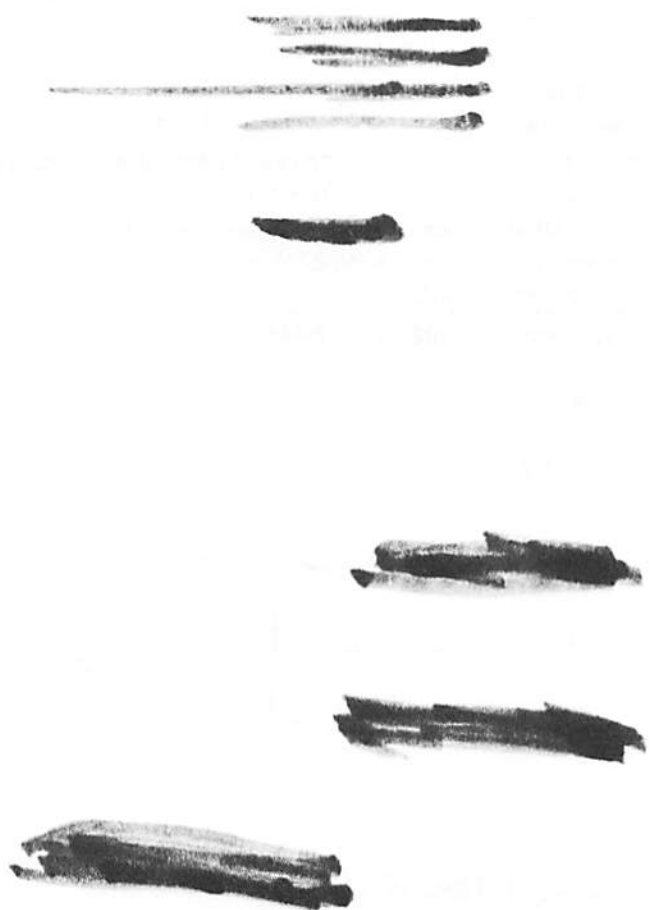
6,400	65.15
6,400	65.15
Week	20.00
	<u>150.30</u>

Supposed to be at 3/1/17  
 Lawrence Co at 9:00  
 Back to court 6/13/17  
 Going to pay \$50/month

*Mike Hagan*

Pd CR# 16332  
 Lawrence Co Clerk 100.30  
 Pd Cash from 5000  
 County Attorney 150.30

Signature \_\_\_\_\_





1/28  
638-7338  
928-8454

AOC-026  
Rev. 5-03  
Page 1 of 1  
Doc. Code: RB  
Commonwealth of Kentucky  
Court of Justice  
www.kycourts.net  
CR 45; RCr 7.02



SUBPOENA

SUBPOENA DUCES TECUM

Case No. 19-M-12  
Court District  
County Lawrence  
Date 8-11-17

COMMONWEALTH OF KENTUCKY

VS

PLAINTIFF

DEFENDANT

*Pre-Trial*

The Commonwealth of Kentucky to:

Name [Redacted]

Address

*Call and talked to secretary @ 9:12 am, September 14 and said that I didn't have to be there, they were going to get restriction for BSWD*

You are commanded to appear before: (select one of three choices)

LAWRENCE DISTRICT Court  The Grand Jury of \_\_\_\_\_ County  
 Other \_\_\_\_\_

You are to appear at: LAWRENCE COUNTY JUDICIAL CENTER  
229 RIVER BEND ROAD  
LOUISA, KY 41230

on the 20th day of September, 2017 at 9:00  a.m. OR  p.m.  Eastern  Central Time

To testify in behalf of THE COMMONWEALTH OF KENTUCKY  
 To produce \_\_\_\_\_

To give depositions

[Redacted] Clerk  
[Redacted] D.C.  
By: [Redacted]

Hon. Michael T. Hogan, Lawrence County Attorney  
Name of Requesting Attorney  
Phone # (606) 638-4051

This subpoena was served by delivery of a true copy to: \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_, 2017 By: \_\_\_\_\_ Title \_\_\_\_\_

**FAXED**  
8-11-17

[REDACTED]

[REDACTED]



COMMONWEALTH OF KENTUCKY  
OFFICE OF THE LAWRENCE COUNTY ATTORNEY

COUNTY ATTORNEY  
MICHAEL T. HOGAN

122 SOUTH MAIN CROSS STREET  
LOUISA, KENTUCKY 41230  
TELEPHONE: (606) 638-4051  
FAX: (606) 638-3437

May 12, 2017

Big Sandy Water District  
Attn: [REDACTED]  
18200 KY-3  
Catlettsburg, KY 41129

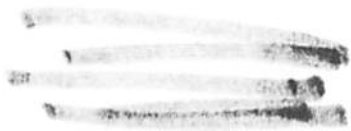
Re: [REDACTED], Lawrence Case no. 17-M-00011

Dear Teresa,

In response to your telephone inquiry today, I am filing the enclosed and sending a copy to [REDACTED] and his attorney. Hopefully this will motivate him into making the agreed upon payment before June 13.

Sincerely,

[REDACTED]  
[REDACTED]  
[REDACTED]  
Michael J. Ackerman  
Assistant County Attorney



NOTICE

The foregoing shall be brought on for hearing before the Lawrence District Court on June 13, 2017 at 10:01 a.m.

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was served on the following this 12th day of May, 2017.

~~\_\_\_\_\_~~  
Hon. Greg Griffith, DPA  
108 28th Street  
Catlettsburg, KY 41129

~~\_\_\_\_\_~~  
Kylan Ferguson  
~~\_\_\_\_\_~~  
161 Cherryville Rd.  
~~\_\_\_\_\_~~  
Louisa, KY 41230

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\_\_\_\_\_  
~~\_\_\_\_\_~~  
Hon. Michael Ackerman

COMMONWEALTH OF KENTUCKY  
LAWRENCE DISTRICT COURT  
Case No. 17-M-00011

COMMONWEALTH OF KENTUCKY

MOTION TO REVOKE PRETRIAL DIVERSION

KYLEN FERGUSON

\*\*\*\*\*

On March 1, 2017 the Defendant entered into a pretrial diversion agreement that required payment of \$150.30 in restitution to Big Sandy Water. As of May 12, 2017 the Defendant has failed to make any payment whatsoever.

WHEREFORE the Commonwealth moves the Court to REVOKE Defendant's diversion herein, so that the Commonwealth may proceed with prosecution of the charged offense.



Hon. Michael Ackerman  
Assistant Lawrence County Attorney  
122 S. Main Cross St.  
Louisa, KY 41230  
606-638-4051



Case Number: 17-M-12  
County: LAWRENCE  
Court: DISTRICT COURT  
Warrant Number: E06410002698339  
Generated: 1/8/2017 8:10:17PM

**Criminal Complaint  
Summons**

Plaintiff. **COMMONWEALTH VS.** [REDACTED] Defendant

[REDACTED]  
[REDACTED]  
[REDACTED]

gender F  
race  
date of birth  
height  
weight  
operator license#

summons / to the above named defendant:

you are hereby summoned to appear before the judge of the above-named court regarding the complaint and criminal charges(s) noted above and based upon the information contained herein, it is found probable cause exists to believe a crime has been committed and that the defendant committed it. if you fail to appear at the stated time and place, you will be subject to the contempt power of the court, which may include issuance of a warrant for your arrest.

Chg#	UOR Code	KRS	Type	Description	ASCF	Counts	Disp Dt	Di
1	01110	514.060	M	THEFT OF SERVICES	N/A	1		

**complaint**

The Affiant [REDACTED], states that during 11/1/2016 thru 1/4/2017 in LAWRENCE County, Kentucky, the above named defendant unlawfully: Defendant intentionally obtained services by deception or by false token or other means to avoid payment for the services which he knows are available only for compensation. To wit: Defendant tampered with the water meter to get free water; Defendant furthermore reconnected water service without authorization after it had been disconnected by the utility service. The value of the services obtained thereby is less than \$500. Affiant is an employee and representative of the Louisa Water Department.

FILED THIS 10 DAY OF  
Jan, 20 17  
JODIE PARSONS, CLERK  
LAWRENCE CIRCUIT COURT  
BY: [REDACTED] D.C.

summons proof of service

Served on Defendant named herein this 7 day of January, 2017.  
 not served because \_\_\_\_\_

[REDACTED SIGNATURE]  
signature of peace officer

court date: court time: court room:  
court location:

1

111

1

111

111

1



17-M-00012

01-0016333

BIG SANDY WATER DISTRICT/JAMES BLANTON  
18200 STATE ROUTE 3  
CATLETTSBURG, KY 41129

638-4215  
9031

ONE HUNDRED AND 30 / 100

DATE: 07/25/2018

AMOUNT

\$100.30

FOR:  17-M-12

THEFT OF SERVICES RESTITUTION

[REDACTED]

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

**38. When leak adjustment has been filled out and checked, then we print a history on customers account to determine if they are eligible for a leak adjustment. We take 3 previous months to get an average, customer pays at regulator rate anything over that is considered leak water and customer pays for that at lowest rate. Copies attached.**

**Teresa Brown****Bobbi Burton**

FOR Boyd, Carter, Johnson & Lawrence Counties  
Community, Town, or City

P.S.C. NO. 1

1<sup>st</sup> Revised SHEET NO. 8

Big Sandy Water District  
(Name of Utility)

CANCELLING P.S.C. KY NO 1

Original SHEET NO 8

---

RULES & REGS

---

E. Leak Adjustments:

PSC Rules and Regulations do not require a utility to offer a leak adjustment although a utility may choose to offer such a policy. This utility chooses to offer a leak adjustment under the following conditions:

1. The customer must request a leak adjustment in writing to the utility.
2. The customer must provide a plumber's statement or other proof showing the leak has been repaired.
3. The customer bill will be based on two components. The first step will be to calculate the customer's average monthly usage over a three-month period. The second step will be to deduct the customer's average monthly usage (as calculated above) from the total amount of water that passed through the meter. The usage calculated in step one will be billed at the utility's regular rates, while the remaining usage will be charged at the per thousand gallon leak adjustment rate as set forth in this tariff. All water passing through the meter must be accounted and paid for by the customer. Therefore, the customer will owe the amount of his/her average bill plus the per thousand gallon leak adjustment rate for the remainder of the water that passes through the meter.
4. If meter reading are not available for an entire three-month period, the water bill will be estimated by the utility, subject to an upward or downward adjustment once a three-month average of actual meter reading can be calculated.
5. Only one leak adjustment will be made per customer during any given one-year period.
6. Wholesale customers are not eligible for this Leak Adjustment Policy.
7. The leak adjustment rate shall be the last step in the declining block rate design of the utility's general water rate as set forth in its approved tariff on file with the PSC.

DATE OF ISSUE 07/23/2009

DATE OF EFFECTIVE 09/01/2009

ISSUED BY [Redacted Signature]

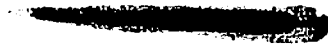
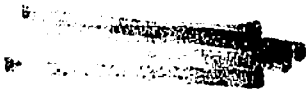
TITLE CHAIRMAN

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION

IN CASE NO. n/a DATED n/a

PUBLIC SERVICE COMMISSION  
OF KENTUCKY  
EFFECTIVE  
7/14/2009  
PURSUANT TO 807 KAR 5:011  
SECTION 9 (1)

[Redacted Signature]  
Executive Director



**BIG SANDY WATER DISTRICT  
LEAK ADJUSTMENT FORM**

Account Number: 02-03450-001

Name: [REDACTED]

Address: 30218 Faulkner Rd  
[REDACTED]  
[REDACTED] Calllettsburg, KY 41129

Phone Number: [REDACTED] (606) 739-6402

- 1. Date repairs were made: 7-9-2018
- 2. Who made the repairs: Smith + Sons Plumbing
- 3. List of materials: leak detector new connector

- 4. Exact location of the leak:
  - a. feet from the meter box: 600 FT
  - b. feet from the house: 12 FT outside line parallel to outside wall of house at least 1 1/2 ft underground

I understand that adjustments are figured by the difference between my average water bill and the bill that reflects the leak. The adjustment is then based on what my average water usage would have been and any water metered above that amount that leaked will be charged to me at \$5.42 per thousand, which is the lowest rate approved by the Public Service Commission for BIG SANDY WATER DISTRICT. I further understand that even though an adjustment is to be considered, I am still responsible for the bill and that if I should be disconnected for non-payment, the entire amount plus a \$30.00 reconnect fee must be paid before service will be restored. Any adjustments made will be credited to my account.

I also understand that only one leak adjustment will be permitted each 12(twelve) months. If plastic pipe is used in any repair of underground water service lines, it must be no less than 200 psi, either CTS or IPS pipe. The use of radiator clamps, king nipples or equivalent cannot be accepted. Use only regular plastic pipe clamps and these should be doubled.

I realize that no adjustment will be made until this form is completed in its entirety, signed and dated and returned to BIG SANDY WATER DISTRICT. The DISTRICT reserves the right to inspect your water system for verification.

I hereby verify that I have read the information given above and that all statements are true and correct, and that the excess usage in my plumbing system has now been corrected.

SIGNED: [REDACTED] DATE: 7-15-18



**BIG SANDY WATER DISTRICT  
CUSTOMER ADJUSTMENTS**

CUSTOMER NUMBER

~~02-345001~~

CUSTOMER NAME

~~Martha Kammott~~

PERIOD TO BE ADJUSTED (MONTH)

August

CHARGE TO BE ADJUSTED

WATER

FROM \$ 170.44 TO \$ 146.12

2432

PENALTY

FROM \$ TO \$

UTILITY TAX

FROM \$ 5.11 TO \$ 4.38

.73

SALES TAX

FROM \$ TO \$

BALANCE TO BE ADJUSTED

FROM \$ 175.55 TO \$ 150.50

2505

REASON FOR ADJUSTMENT

Calc

CORRECTION MADE BY:

AS

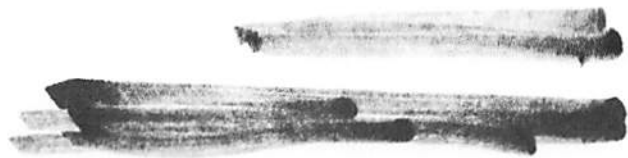
APPROVED BY:

AS

DATE:

7/23/18





## Big Sandy Water District Reading History Report

Service Type	WT Water	Starting Date	07/01/2017
Cycle	All Cycles	Ending Date	07/20/2018
Starting Account	0002-03450-001	Sort Order	Account
Ending Account	0002-03450-001	Page Break on Account Group	<input type="checkbox"/>
Print on wide carriage	No	Use Reading Factor	Yes
Date Selection For Report	Reading	Account Group Range	All Groups

Reading Date	Service	Rate	Meter Number	Previous Reading	Present Reading	Usage	Reading Type	Deduct Usage	Demand Usage	Change Out
<div style="background-color: black; color: black; display: inline-block; padding: 2px;">0002-03450-001</div> 01 <div style="background-color: black; color: black; display: inline-block; padding: 2px;">Vannatter, Martha</div> <div style="background-color: black; color: black; display: inline-block; padding: 2px;">30218 Faulkner Rd Callettsburg, KY 41129</div>										
07/05/2017 10:35 AM	Water	01	83397638	520,100	522,200	2,100	Read	0	0	<input type="checkbox"/>
08/01/2017 10:01 AM	Water	01	83397638	522,200	524,000	1,800	Read	0	0	<input type="checkbox"/>
09/01/2017 11:19 AM	Water	01	83397638	524,000	525,700	1,700	Read	0	0	<input type="checkbox"/>
10/02/2017 10:48 AM	Water	01	83397638	525,700	526,900	1,200	Read	0	0	<input type="checkbox"/>
11/01/2017 11:28 AM	Water	01	83397638	526,900	529,600	2,700	Read	0	0	<input type="checkbox"/>
12/01/2017 12:12 PM	Water	01	83397638	529,600	531,100	1,500	Read	0	0	<input type="checkbox"/>
01/02/2018 11:30 AM	Water	01	83397638	531,100	532,700	1,600	Read	0	0	<input type="checkbox"/>
02/01/2018 10:54 AM	Water	01	83397638	532,700	534,900	2,200	Read	0	0	<input type="checkbox"/>
03/01/2018 10:56 AM	Water	01	83397638	534,900	537,100	2,200	Read	0	0	<input type="checkbox"/>
04/02/2018 10:46 AM	Water	01	83397638	537,100	540,600	3,500	Read	0	0	<input type="checkbox"/>
05/02/2018 09:36 AM	Water	01	83397638	540,600	544,400	3,800	Read	0	0	<input type="checkbox"/>
06/01/2018 09:48 AM	Water	01	83397638	544,400	551,300	6,900	Read	0	0	<input type="checkbox"/>
07/02/2018 10:23 AM	Water	01	83397638	551,300	573,900	22,600	Read	0	0	<input type="checkbox"/>

} 4.7 Avg

1 Customers in Route 0002

53,800 Route Usage

1 Customers on Report

53,800 Total Usage

(5.2)

4.7  
17.9

49.10  
97.02  
-----  
146.12

[REDACTED]

[REDACTED]

[REDACTED]

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

39. It does not state whether we give late charges back on leak adjustments, but we do not.

**Teresa Brown**

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**40. Copies provided**

**BIG SANDY WATER DISTRICT  
CUSTOMER ADJUSTMENTS**

CUSTOMER NUMBER \_\_\_\_\_

CUSTOMER NAME \_\_\_\_\_

PERIOD TO BE ADJUSTED (MONTH) \_\_\_\_\_

**CHARGE TO BE ADJUSTED**

WATER FROM \$ \_\_\_\_\_ TO \$ \_\_\_\_\_

PENALTY FROM \$ \_\_\_\_\_ TO \$ \_\_\_\_\_

UTILITY TAX FROM \$ \_\_\_\_\_ TO \$ \_\_\_\_\_

SALES TAX FROM \$ \_\_\_\_\_ TO \$ \_\_\_\_\_

BALANCE TO BE ADJUSTED FROM \$ \_\_\_\_\_ TO \$ \_\_\_\_\_

REASON FOR ADJUSTMENT \_\_\_\_\_

CORRECTION MADE BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

**BIG SANDY WATER DISTRICT  
LEAK ADJUSTMENT FORM**

**Account Number:**

**Name:**

**Address:**

**Phone Number: (606)**

1. Date repairs were made: \_\_\_\_\_

2. Who made the repairs: \_\_\_\_\_

3. List of materials: \_\_\_\_\_

4. Exact location of the leak:

a. feet from the meter box:

b. feet from the house:

I understand that adjustments are figured by the difference between my average water bill and the bill that reflects the leak. The adjustment is then based on what my average water usage would have been and any water metered above that amount that leaked will be charged to me at \$5.42 per thousand, which is the lowest rate approved by the Public Service Commission for BIG SANDY WATER DISTRICT. I further understand that even though an adjustment is to be considered, I am still responsible for the bill and that if I should be disconnected for non-payment, the entire amount plus a \$30.00 reconnect fee must be paid before service will be restored. Any adjustments made will be credited to my account.

I also understand that only one leak adjustment will be permitted each 12(twelve) months. If plastic pipe is used in any repair of underground water service lines, it must be no less than 200 psi, either CTS or IPS pipe. The use of radiator clamps, king nipples or equivalent cannot be accepted. Use only regular plastic pipe clamps and these should be doubled.

I realize that no adjustment will be made until this form is completed in its entirety, signed and dated and returned to BIG SANDY WATER DISTRICT. The DISTRICT reserves the right to inspect your water system for verification.

I hereby verify that I have read the information given above and that all statements are true and correct, and that the excess usage in my plumbing system has now been corrected.

**SIGNED:**

**DATE:**

Appendix # C

Case #2019-00041

Dated: March 12, 2019

41. We do have an audit done once a year.

Teresa Brown



**BIG SANDY  
WATER DISTRICT**

**REPORT ON EXAMINATION OF BASIC FINANCIAL STATEMENTS  
AND SUPPLEMENTAL INFORMATION  
for the year ended December 31, 2017**

## CONTENTS

	Page
<b>Independent Auditor's Report</b>	1-2
<b>Management Discussion &amp; Analysis</b>	3-4
<b>Financial Statements</b>	
<b>Statement of Net Position</b>	5
<b>Statement of Revenues, Expenses and Changes in Fund Net Position</b>	6
<b>Statement of Cash Flows</b>	7
<b>Notes to the Financial Statements</b>	8-16
<b>Require Supplemental Information</b>	
<b>Schedule of Proportionate Share of Net Pension Liability</b>	17
<b>Schedule of Pension Contributions</b>	18
<b>Notes to Required Supplemental Information</b>	19
<b>Supplemental Information</b>	
<b>Independent Auditor's Report on Internal Control Over     Financial Reporting &amp; on Compliance and other     Matters Based on an Audit of Financial Statements     Performed in Accordance with Government Auditing Standards</b>	20
<b>Comparative Statement of Revenue and Expenses</b>	21

John T. Lane and Associates, LLC  
Certified Public Accountants  
219 Young Lane, Suite 2  
Mt. Sterling, Kentucky 40353  
(859) 498-9915  
www.thelanecpa.com

Member:  
American Institute of CPA's  
Kentucky Society of CPA's

## INDEPENDENT AUDITOR'S REPORT

Board of Commissioners  
Big Sandy Water District  
Catlettsburg, Kentucky

### Report on the Financial Statements

We have audited the accompanying financial statements of the business-type activities of the Big Sandy Water District as of and for the year ended December 31, 2017 and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

### Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities, of the Big Sandy Water District as of December 31, 2017, and the respective changes in financial position, and cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

**Other Matters***Required supplementary information*

Accounting principles generally accepted in the United States of America require that the management's discussion & analysis on pages 3 and 4 and pension schedules & notes on pages 17-19 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

*Other information*

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Big Sandy Water District's basic financial statements. The comparative statement of revenues and expenses is presented for purposes of additional analysis and is not a required part of the basic financial statements.

The comparative statement of revenues and expenses is the responsibility of management and was derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the comparative statement of revenues and expenses is fairly stated in all material respects in relation to the basic financial statements as a whole.

**Other reports required by Government Auditing Standards**

In accordance with Government Auditing Standards, we have also issued our report dated June 1, 2018 on our consideration of the Big Sandy Water District's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards in considering Big Sandy Water District's internal control over financial reporting and compliance.

*John T. Lane & Associates, LLC*

Mount Sterling, Kentucky

June 1, 2018

This report contains 21 pages.

## **Management's Discussion and Analysis**

In June, 1999, the Governmental Accounting Standards Board (GASB) adopted Statement 34, Basic Financial Statements and Management's Discussion and Analysis for State and Local Governments. The standard requires that a "Management Discussion and Analysis" be included in the annual report along with annual audited financial statements.

Our discussion and analysis of the Big Sandy Water District's Financial performance provided an overview of the Company's financial activities for the year ended December 31, 2017. This information is presented in conjunction with the audited financial statements that follow this section.

### **Financial Highlights**

In 2017, Big Sandy Water District had four significant activities that affected our financial status.

In March 2017, Big Sandy purchased a 2018 Kubota Excavator for \$59,970.00. We are making monthly payments of \$1249.37 for 48 months.

In May 2017, Big Sandy purchased two 2017 Chevrolet Silverado Trucks for \$29,500.00 each.

In August 2017, Big Sandy purchased the property next to our office for \$60,000.00.

In December 2017, Big Sandy purchased a 2018 Kraftsman trailer for \$7,410.00.

### **Required Financial Statements**

The financial statements of Big Sandy Water District (BSWD) reports information of BSWD using accounting methods similar to those used by private sector companies. These statements offer short and long-term financial information and its activities. The Statement of New Assets included all of Big Sandy Water District's assets and liabilities and provides information about the nature and amounts of investments in resources (assets) and the obligations to BSWD creditors (liabilities). It also provides the basis for evaluating the capital structure of BSWD and assessing the liquidity and financial flexibility of BSWD.

All of the current year's revenues and expenses are accounted for in the Statement of Revenues, Expenses and Changes in Net Assets. This statement measures the success of Big Sandy Water District's operations over the past year and can be used to determine whether BSWD has successfully recovered all its costs through its user fees and other charges, profitability and credit worthiness.

The final required financial statement is the Statement of Cash Flows. The statement reports cash receipts, cash payments, and net changes in cash resulting from operations, investing, and financing activities and provides answers to such questions as where did the cash come from, what was the cash used for, and what was the change in cash balance during the reporting period.

### **Financial Analysis**

Total assets to total liabilities for 2017 show a ratio of 2.69 to 1 meaning BSWD has \$2.69 worth of assets to each \$1.00 worth of liabilities. This compares to 2016 at 2.65 to 1 and 2015 at 2.65 to 1.

The Operating Revenue in 2017 increased to \$2,608,768 from \$2,586,770. Thirty-nine percent of the revenue goes to purchase water. Twenty-two percent of the revenue goes to hourly employees and benefits.

Charge-off accounts that were deemed not collectable were \$14,970 in 2017 compared to \$15,225 in 2016. This is .57% of revenue. That amount is covered by the \$57,812 collected as late payment penalties.

### **Request for Information**

This financial report is designed to provide our customers and creditors with a general overview of Big Sandy Water District's Finances and to demonstrate Big Sandy Water District's accountability for the funds it receives. If you have any questions about this report or need any additional information, please contact James Blanton or Teresa Brown at (606) 928-2075 or 1-800-354-2933.

Big Sandy Water District  
Statement of Net Position  
Proprietary Fund Type  
December 31, 2017

**ASSETS**

<b>Current Assets</b>	
Cash and cash equivalents - unrestricted	\$ 665,583
Cash and cash equivalents - restricted (note 6)	559,367
Accounts receivable - net of allowance for doubtful accounts (note 1)	247,569
Inventory	57,239
Prepaid expenses	<u>11,819</u>
<b>Total Current Assets</b>	<u><b>1,541,577</b></u>
<b>Noncurrent Assets</b>	
Capital assets: (note 1)	
Land	99,529
Construction in process	56,125
Plant, equipment and lines	20,278,763
Less accumulated depreciation	<u>(8,405,313)</u>
<b>Total Noncurrent Assets</b>	<u><b>12,029,104</b></u>
Deferred outflow of resources	<u>227,268</u>
<b>Total Assets &amp; Deferred Outflow of Resources</b>	<u><b>\$ 13,797,949</b></u>

**LIABILITIES**

<b>Current Liabilities</b>	
Accrued expenses	\$ 121,251
Notes/Bonds payable (note 2)	207,992
Payable from restricted assets	<u>127,786</u>
<b>Total Current Liabilities</b>	<u><b>457,029</b></u>
<b>Noncurrent Liabilities</b>	
Notes/Bonds payable (note 2)	3,771,122
Accrued pension & OPEB liabilities	<u>801,493</u>
<b>Total Noncurrent Liabilities</b>	<u><b>4,572,615</b></u>
Deferred Inflows of Resources	<u>93,209</u>
<b>Total Liabilities &amp; Deferred Inflow of Resources</b>	<u><b>5,122,853</b></u>

**Net Position**

Net investment in capital assets	8,049,990
Restricted	431,581
Unrestricted	<u>193,525</u>
<b>Total Net Position</b>	<u><b>\$ 8,675,096</b></u>

The accompanying notes to the basic financial statements are an integral part of these statements.

**Big Sandy Water District**  
**Statement of Revenues, Expenses and Changes in Fund Net Position**  
**Proprietary Fund Type**  
**For the year ended December 31, 2017**

<b>Revenues</b>	
User fees	\$ 2,575,375
Other water revenue	<u>33,393</u>
<b>Total Revenues</b>	<u><b>2,608,768</b></u>
<b>Expenses</b>	
Wages	334,428
Commissioners expense	1,807
Taxes & benefits	227,168
Purchased water & power	1,010,748
Materials & supplies	172,783
Contractual services	67,383
Trasnportation expense	20,882
Equipment expense	14,302
Insurance	24,928
Postage	19,671
Bad debt	14,970
Other expense	20,408
Telephone	6,261
Depreciation	<u>436,105</u>
<b>Total Operating Expenses</b>	<u><b>2,371,844</b></u>
<b>Operating Income (Loss)</b>	<u><b>236,924</b></u>
<b>Nonoperating Revenues (Expenses)</b>	
Tap fees	20,075
Interest income	1,649
Grant income	55,946
Gain on sale of capital assets	8,700
Interest expense	<u>(156,681)</u>
<b>Net Nonoperating Revenues (Expenses)</b>	<u><b>(70,311)</b></u>
<b>Net Income (Loss)</b>	166,613
<b>Total Net Position - beginning</b>	<u><b>8,508,483</b></u>
<b>Total Net Position - ending</b>	<u><u><b>\$ 8,675,096</b></u></u>

The accompanying notes are an integral part of the financial statements.



**Big Sandy Water District  
Statement of Cash Flows  
Proprietary Fund Type  
December 31, 2017**

<b>CASH FLOWS FROM OPERATING ACTIVITIES:</b>	
Operating revenues	\$ 2,606,309
Cash paid to employees	(334,428)
Cash paid for general and administrative expenses	<u>(1,574,098)</u>
Net Cash provided by operating activities	<u>697,783</u>
<b>CASH FLOWS FROM INVESTING ACTIVITIES:</b>	
Interest earned	1,649
Customer deposits	<u>(960)</u>
Net Cash provided by investing activities	<u>689</u>
<b>CASH FLOWS FROM CAPITAL AND FINANCING ACTIVITIES:</b>	
Note/bond payments	(200,244)
Note/bond proceeds	59,970
Tap fees	20,075
Purchase of assets	(283,571)
Grant income	55,946
Sale of assets	8,700
Interest paid	<u>(155,233)</u>
Net Cash used in capital and financing activities	<u>(494,357)</u>
<b>NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS</b>	<b>204,115</b>
<b>CASH AND CASH EQUIVALENTS - BEGINNING OF YEAR</b>	<u><b>1,020,835</b></u>
<b>CASH AND CASH EQUIVALENTS - END OF THE YEAR</b>	<u><u><b>\$ 1,224,950</b></u></u>
<b>RECONCILIATION OF NET CASH PROVIDED BY OPERATING ACTIVITIES:</b>	
Net Operating Income	\$ 236,924
Adjustments to Reconcile Net Income to Net Cash Provided by Operating Activities:	
(Increase)/Decrease in inventory	9,652
Depreciation	436,105
Pension expense	95,827
(Increase)/Decrease in accounts receivable	(2,459)
Increase/(Decrease) in accounts payable	<u>(78,266)</u>
Net cash provided by operating activities	<u><u><b>\$ 697,783</b></u></u>

The accompanying notes to the basic financial statements are an integral part of these statements.

**BIG SANDY WATER DISTRICT  
NOTES TO THE FINANCIAL STATEMENTS  
December 31, 2017**

**Note 1 - Summary of Significant Accounting Policies**

The Big Sandy Water District is a water utility which services areas of Boyd, Carter, Johnson and Lawrence Counties. Its sales are primarily to residential customers. The District is a corporate body set forth in Kentucky Revised Statutes (KRS) 74.070 which was created November, 1981. The District is subject to the regulatory District of the Kentucky Public Service Commission pursuant to KRS 278. 040.

The accounting policies of the District conform to accounting principles generally accepted in the United States of America as applicable to governments. The following is a summary of the more significant policies.

**The Reporting Entity**

The District, for financial purposes, includes all of the funds relevant to the operations of the District. The financial statements presented herein do not include agencies which have been formed under applicable state laws or separate and distinct units of government apart from the Big Sandy Water District.

The financial statements of the District would include those of separately administered organizations that are controlled by or dependent on the District. Control or dependence is determined on the basis of financial interdependency, selection of governing District, designation of management, ability to significantly influence operations, accountability of fiscal matters, scope of public service, and financing relations.

Based on the foregoing criteria there are not other organizations included in these financial statements.

**Depreciation Reserve Fund -** Monthly transfers are required to be made into this fund until it reaches the fully funded level of \$233,400. Only expenditures for capital improvements or extraordinary expenses are permitted to be paid from this fund. The District had set aside \$204,641 into this fund at December 31, 2017. The required balance at December 31, 2017 is \$198,120.

**Bond and Interest Sinking Fund (USDA) -** Monthly transfers are required to be made into this account in an amount equal to one-sixth (1/6) of the interest becoming due on the next succeeding interest due date for all outstanding bonds and one-twelfth (1/12) of the principal of all such bonds maturing on the next succeeding due date. The required balance of the fund at December 31, 2017 was \$123,037. The District had set aside \$159,180.

**Bond and Interest Sinking Fund (KRWFC) -** Monthly transfers are required to be made into this account in an amount equal to one-sixth (1/6) of the interest becoming due on the next succeeding interest due date for all outstanding bonds and one-twelfth (1/12) of the principal of all such bonds maturing on the next succeeding due date. The required balance of the fund at December 31, 2017 was \$139,721. The District had set aside \$141,618.

The accounting and financial reporting treatment applied to the District is determined by its measurement focus. The transactions of the District are accounted for on a flow of economic resources measurement focus. With this measurement focus, all assets and all liabilities associated with the operations are included on the balance sheet. Net assets (i.e., total assets net of total liabilities) are segmented into invested in capital assets, net of related debt, restricted and unrestricted components. When both restricted and unrestricted resources are available for use, it is the District's policy to use restricted resources first, and then unrestricted resources as they are needed.

**Enterprise Funds**

Enterprise Funds are used to account for operations (a) that are financed and operated in a manner similar to private business enterprise where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges or (b) where the governing body has decided that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control, accountability, or other purposes.

**Basis of Accounting**

The records of the District are maintained and the budgetary process is based on the accrual method of accounting.

**Inventory**

The cost of inventory is recorded as a disbursement at the time of payment for the purchase. Materials on hand are inventoried at year end and recorded as an asset at that time. They are recorded at lower of cost or market valued on the FIFO method.

**Cash**

At December 31, 2017, the carrying amount of the District's deposits was \$1,224,950 and the bank balance was \$1,271,862. Of the bank balance \$419,956 was covered by federal deposit insurance and \$851,906 was collateralized with securities held by the pledging financial institution's trust department. The District considers all investments with a maturity of three months or less from date of purchase to be cash equivalents. Certificates of deposit that are redeemable immediately with little or no penalty are considered cash equivalents.

**Capital assets**

Capital assets purchased are capitalized at the time of purchase. Such assets are recorded at cost. Donated assets are recorded at fair market value at the date of donation.

Depreciation of property and equipment is computed by the straight-line method based upon the estimated useful lives of the assets as follows:

<u>Class</u>	<u>Life</u>
Lines and tanks	50 years
Hydrants	30 years
Meters	20 years
Equipment	10 years
Vehicles	5 years

The District's capitalization policy is as follows: expenditures costing more than \$5,000 with an estimated useful life greater than one year are capitalized; all others are expensed.

**Net Position**

Net position represents the difference between assets and liabilities. Net investment in capital assets consists of capital assets, net of accumulated depreciation, reduced by the outstanding balance of any borrowing used for the acquisition, construction or improvement of those assets. Net position is recorded as restricted when there are limitations imposed on their use by external restrictions.

**Investments**

Investments are carried at cost which is the lower of cost or fair market value.

**Accounts Receivable**

The receivable reflected in the statements in the amount of \$247,569 is net of allowance for uncollectible in the amount of \$-0-.

**Use of Estimates**

The preparation of financial statements in conformity with accounting principles generally accepted in United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and reported amounts of revenues and expenditures during the reporting period. Actual results could differ from those estimates.

**Note 2 - Notes Payable**

The amount shown in the accompanying financial statements as notes payable represents the District's future obligation to make loan payments from future revenues. At December 31, 2017, seven separate loans had outstanding balances. Details of each of these issues are summarized as follows:

**Note A**

Lender – Rural Development

Balance of loan - \$780,000

Rate – 4.5%

Principal due January 1

Interest due January and July 1

Prepayment provision - subject to payment prior to its stated maturity without penalty or premium, at any time upon ten (10) days notice.

**Note B**

Lender – USDA

Balance of loan - \$423,500

Rate – 4.5%

Principal due January 1

Interest due January and July 1

Prepayment provision - subject to payment prior to its stated maturity without penalty or premium, at any time upon ten (10) days notice.

**Note C**

Lender – USDA

Balance of loan - \$1,018,500

Rate – 2.75%

Principal due January 1

Interest due January 1 and July 1

Prepayment provision - subject to payment prior to its stated maturity without penalty or premium, at any time upon ten (10) days notice.

**Note D**

Lender – USDA

Balance of loan - \$361,500

Rate – 4.5%

Principal due January 1

Interest due January 1 and July 1

Prepayment provision – subject to payment prior to its stated maturity without penalty or premium, at any time upon ten (10) days notice.

**Note E**

Lender – KRWFC

Balance of loan - \$557,000

Rate – Variable

Principal due – January 1

Interest due January 1 and July 1

**Note F**

Lender – KRWFC

Balance of loan - \$620,000

Rate – variable

The bonds were sold at a premium of \$84,203, which is being amortized over the term of the bond. The unamortized bond premium is recorded as a noncurrent liability. The premium amortization which is a decrease to interest expense was \$5,263 for 2016. The unamortized bond premium at December 31, 2016 was \$63,151.

Principal due – January 1

Interest due – January 1 and July 1

**Note G**

Lender – USDA

Balance of loan - \$112,000

Rate – 3.25%

Principal due January 1

Interest due January and July 1

Prepayment provision - subject to payment prior to its stated maturity without penalty or premium, at any time upon ten (10) days notice.

Note H

Lender – Kubota Credit Corporation

Balance of loan - \$48,726

Rate –0%

Principal- monthly payments of \$1,249

Schedule of Notes/Bonds Payable	balance <u>12/31/2016</u>	<u>Additions</u>	<u>Payments</u>	balance <u>12/31/2017</u>	Current <u>Portion</u>
USDA 91-07	\$811,500	\$-	\$31,500	\$780,000	\$33,000
USDA 91-10	372,500	-	11,000	361,500	11,500
USDA 91-11	433,500	-	10,000	423,500	10,000
USDA 91-16	1,034,500	-	16,000	1,018,500	16,000
USDA 91-18	113,500	-	1,500	112,000	1,500
Kubota	-	59,970	11,244	48,726	14,992
Kentucky Rural Water 2007	601,000	-	44,000	557,000	46,000
Kentucky Rural Water 2013	<u>695,000</u>	<u>-</u>	<u>75,000</u>	<u>620,000</u>	<u>75,000</u>
	<u>\$4,061,500</u>	<u>\$59,970</u>	<u>\$200,244</u>	<u>\$3,921,226</u>	<u>\$207,992</u>
Bond premium	<u>63,151</u>	<u>-</u>	<u>5,263</u>	<u>57,888</u>	<u>-</u>
	<u>\$4,124,651</u>	<u>\$59,970</u>	<u>\$205,507</u>	<u>\$3,979,114</u>	<u>\$207,992</u>

Schedule of maturities

	<u>Principal</u>	<u>Interest</u>		<u>Principal</u>	<u>Interest</u>
2018	207,992	144,556	2028-2032	677,500	253,893
2019	212,992	136,351	2033-2037	442,500	141,197
2020	218,492	127,921	2038-2042	269,000	81,273
2021	212,250	119,282	2043-2047	187,500	48,813
2022	209,000	110,530	2048-2052	216,000	19,938
2023-2027	968,500	427,229	2053-2057	<u>99,500</u>	<u>151</u>
				\$3,921,226	\$1,611,134

Note 3 - Leave Policies

The District's employees are covered by leave policies as follow:

- a) sick leave – one day per month to a maximum accumulation of sixty days;
- b) annual leave – five days per annum with 1-2 years employment; ten days per annum with 3-9 years employment; fifteen days per annum after 10 years employment. One week of annual leave may be carried forward to the next year, but must be taken by March 31<sup>st</sup> of that year. Up on the retirement, termination of or medical retirement of an employee the District shall continue to employ and pay the employee for any accrued earned vacation days. The employee termination date shall be the last day of earned vacation paid.

**Note 4 - Changes in Capital assets**

The following is a summary of changes in the capital assets for the fiscal year:

	balance <u>12/31/16</u>	Transfer/ <u>Additions</u>	<u>Deletions</u>	balance <u>12/31/17</u>
Land	\$39,529	\$60,000	\$-	\$99,529
Structures & improvements	121,531	-	-	121,531
Distributions system	17,762,561	-	-	17,762,561
Utility plant in service (UPIS)	124,728	-	-	124,728
UPIS acquisition adjustment	24,805	-	-	24,805
Vehicles	210,951	66,409	(48,732)	228,628
Equipment	1,915,473	101,037	-	2,016,510
Construction in process	<u>-</u>	<u>56,125</u>	<u>-</u>	<u>56,125</u>
	<u>20,199,578</u>	<u>283,571</u>	<u>(48,732)</u>	<u>20,434,417</u>
Accumulated depreciation	<u>8,017,940</u>	<u>436,105</u>	<u>(48,732)</u>	<u>8,405,313</u>
Net capital assets	<u>12,181,638</u>			<u>12,029,104</u>

**Note 5 - Revenue Bonds**

Water and Revenue Bonds constitute special obligations of the District solely secured by a lien on and pledge of the net revenues of the water system. The revenue bonds are collateralized by the revenue of the water system and the various special funds established by the bond ordinances. The ordinances provide that the revenue of the system is to be used first to pay operating and maintenance expenses of the system and second to establish and maintain the revenue bond funds. Any remaining revenues may then be used for any lawful purpose. The ordinances also contain certain provisions, which require the District to maintain pledged revenues. The District must transfer monthly 1/6 of the next succeeding interest payment and 1/12 of the next succeeding principal payment from the operations and maintenance account into the bond and interest sinking account.

**Note 6 - Restricted Cash**

Restricted cash is composed of the following:

Deposit account	\$53,928
Depreciation reserve fund	204,641
Debt reserve fund Regions (KRWFC)	141,618
Debt reserve fund (USDA)	<u>159,180</u>
	<u>\$559,367</u>

**Note 7 - Contingencies**

The District is subject to possible examinations made by Federal and State authorities who determine compliance with terms, conditions, laws, and regulations governing other grants given to the District in the current and prior years. There were no examinations for the year ended December 31, 2017. Areas of noncompliance, if any, as a result of examinations would be included as a part of the "Findings and Questioned Costs" section of this report.

**Note 8 - Risk Management**

The District is exposed to various risks of losses related to torts; theft of, damage to and destruction of assets; errors and omissions; injuries to employees; and natural disasters. The District carries commercial insurance coverage for the risks to the extent deemed prudent by District management.

**Note 9 - Investments**

The District's investment policy is governed by the Kentucky Statutes. These requirements authorize the District to invest in obligations backed by full faith and credit of the United States and obligations of any corporation of the United States government. The policy requires that amounts on deposit with financial institutions be collateralized at a rate of 100% of amounts in excess of deposit insurance coverage.

**Note 10 – Subsequent Events**

The District has evaluated subsequent events through June 1, 2018 the date which the financial statements were available to be issued.

**Note 11 – Defined Benefit Pension Plan**

***General Information About the Pension Plan***

*Plan description* - Regular, full-time, employees of the District are provided with pensions through the County Employees' Retirement System (CERS)—a cost-sharing multiple-employer defined benefit pension plan administered by the Kentucky Retirement System. The assets of CERS are pooled with two other retirement systems Kentucky Retirement System administers, KERS & SPRS. Although invested as a whole each system's assets are used only for the members of that plan. Kentucky Revised Statute (KRS) chapter 61 grants the District to establish and amend the benefit terms to the Kentucky Retirement System's Board of Trustees (Board). Kentucky Retirement System issues a publicly available financial report that can be obtained on their website.

*Benefits provided* - CERS provides retirement, insurance, disability, and death benefits. Retirement benefits are determined from an average of the five highest years of compensation for those whose participation began before September 01, 2008. For those who began participation on or after September 01, 2008 retirement benefits are determined as an average of the last complete five years. A percentage is then taken from those averages based on the employee's months of service. Employees are eligible for service-related disability benefits with at least 60 months of service. If the member is receiving monthly benefits based on at least four years of service, then a \$5,000 death benefit is payable to the member's designated beneficiary. For those employees whose participation began prior to July 01, 2003, CERS will pay a portion of the monthly premium for single coverage based upon service credit accrued at retirement. For those employees whose participation began on or after July 01, 2003 and before September 01, 2008, employees are required to earn at least 10 years of service credit to be eligible for insurance benefits. Employees whose participation began on or after September 01, 2008 must earn at least 15 years of service credit to be eligible for insurance benefits.

Cost of living adjustments to monthly retirement allowance must be approved by the Kentucky State Legislature (Legislature) and requires the system to be either 100% funded or appropriations are made to cover the increase are by the Legislature.

*Contributions* - Employees are required to contribute 5% of their annual pay. Employees whose participation began on or after September 01, 2008 are required to contribute an additional 1%. This additional 1% is credited to the insurance fund and is non-refundable. The District's contractually required contribution rate for the year ended December 31, 2017 was 18.68% & 19.18% of annual payroll, actuarially determined as an amount that, when combined with employee contributions, is expected to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability. Contributions to the pension plan from the District were \$48,749 for the year ended December 31, 2017. The District's contribution was allocated \$36,170 to the pension fund and \$12,579 to the insurance fund.

***Pension Liabilities, Pension Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions***

At December 31, 2017, the District reported a liability of \$801,493 for its proportionate share of the net pension liability. The net pension liability was measured as of June 30, 2017, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. The District's portion of the net pension liability was based on the District's proportionate share of retirement contributions for the fiscal year ended June 30, 2017. At June 30, 2017 the District's proportionate share was 0.013693%.

For the year ended December 31, 2017, the District recognized pension expense of \$130,982. At December 31, 2017, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	<u>Deferred Outflows of Resources</u>	<u>Deferred Inflows of Resources</u>
Net difference between projected and actual earnings on pension plan investments	\$-0-	\$-0-
Differences between expected and actual Experience	64,471	73,909
Changes in assumptions	147,897	-
Changes in proportion and differences between employer contributions and proportionate share of contributions	1,173	19,300
District's contributions subsequent to the measure date	<u>13,727</u>	<u>-0-</u>
Total	\$227,268	\$93,209

\$13,727 reported as deferred outflows of resources related to pensions resulting from the District's contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended December 31, 2018. The remaining amount of \$120,332 reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

<u>Year Ended</u>	<u>Amount</u>
December 31, 2018	\$54,680
December 31, 2019	52,918
December 31, 2020	23,027
December 31, 2021	(10,293)
December 31, 2022	-0-
Thereafter	<u>-0-</u>
Total	\$120,332

*Actuarial assumptions* - The total pension liability in the June 30, 2017 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	2.30%
Salary increases	2.00% average, including inflation
Investment rate of return	6.25%, net of pension plan investment expense including inflation



The mortality table used for active members is RP-2000 Combined Mortality Table projected with Scale BB to 2013 (multiplied by 50% for males and 30% for females). For healthy retired members and beneficiaries, the mortality table used is the RP-2000 Combined Mortality Table projected with Scale BB to 2013 (set back 1 year for females). For disabled members, the RP-2000 Combined Disabled Mortality Table projected with Scale BB to 2013 (set back 4 years for males) is used for the period after disability retirement. There is some margin in the current mortality tables for possible future improvement in mortality rates and that margin will be reviewed again when the next experience investigation is conducted.

The actuarial assumptions used in the June 30, 2017 valuation were based on the results of an actuarial experience study for the period July 1, 2008-June 30, 2013.

The long-term expected return on system assets is reviewed as part of the regular experience studies prepared every five years. The most recent analysis, performed for the period covering fiscal years 2008 through 2013, is outlined in a report dated April 30, 2014. Several factors are considered in evaluating the long-term rate of return assumption including long-term historical data, estimates inherent in current market data, and a log-normal distribution analysis in which best estimate ranges of expected future real rates of return (expected return and net of investment expense) were developed by the investment consultant for each major asset class. These ranges were combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and then adding expected inflation. The capital market assumptions developed by the investment consultant are intended for use over a 10-year horizon and may not be useful in setting the long-term rate of return for funding pension plans which covers a longer time frame. The assumption is intended to be a long-term assumption and is not expected to change absent a significant change in the asset allocation, a change in the inflation assumption or a fundamental change in the market that alters expected returns in future years. The target allocation and best estimates of rates of return for each major asset class are summarized in the following table:

<u>Asset Class</u>	<u>Target Allocation</u>	<u>Long-Term Unexpected Nominal Return</u>
Combined Equity	44%	5.40%
Combined Fixed Income	19%	1.50%
Real Return (Diversified Inflation Strategies)	10%	3.50%
Real Estate	5%	4.50%
Absolute Return (Diversified Hedge Funds)	10%	4.25%
Private Equity	10%	8.50%
Cash Equivalent	<u>2%</u>	-0.25%
	100%	

*Discount rate* - The discount rate used to measure the total pension liability was 6.25%. The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the current contribution rate and that contributions from the District will be made at contractually required rates, actuarially determined. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

*Sensitivity of the District's proportionate share of the net pension liability to changes in the discount rate* - The following presents the District's proportionate share of the net pension liability calculated using the discount rate of 6.25%, as well as what the District's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (5.25%) or 1-percentage-point higher (7.25%) than the current rate:

	1% Decrease <u>5.25%</u>	Current Discount Rate <u>6.25%</u>	1% Increase <u>7.25%</u>
District's proportionate share of the net pension liability	\$1,010,856	\$801,493	\$626,363

*Pension plan fiduciary net position* - Detailed information about the pension plan's fiduciary net position is available in the separately issued CERS financial report.

**Note 12- Overland Development**

During 2016 the District acquired Overland Development Inc. (Overland). The District acquired the water utility system, including its water lines and approximately 116 meters. Overland services the Lockwood Estates area of Boyd County, Kentucky. The District paid \$50,000 to acquire Overland and will pay Overland an additional \$50,000 over the next sixty months (\$833.33/month) for consulting services. No provision has been made for the monthly payments. These monthly payments will be recognized as an expense monthly, as the consulting services are provided.

At the time of acquisition, Overland's capital assets totaled \$124,728 and its accumulated depreciation on the assets totaled \$99,533. The District has included these amounts with its capital assets and accumulated depreciation. As a result an acquisition adjustment of \$24,805 has also been included and is being amortized accordingly.

**REQUIRED SUPPLEMENTAL INFORMATION**

**Big Sandy Water District**  
**Schedule of Proportionate Share of Net Pension Liability**  
**12/31/2017**

	<u>6/30/2017</u>	<u>6/30/2016</u>	<u>6/30/2015</u>
PHA's proportion of the net pension liability	0.013693%	0.014360%	0.014640%
PHA's proportionate of the net pension liability	801,493	707,032	629,451
PHA's covered employee payroll	340,789	342,371	334,849
PHA's proportionate share of the net pension liability as a percentage of its covered employee payroll	235.19%	206.51%	187.98%
Plan fiduciary net position as a percentage of the total pension liability	53.30%	55.50%	59.97%

**Big Sandy Water District  
Schedule of Pension Contributions  
12/31/2017**

	<u>12/31/2017</u>	<u>12/31/2016</u>	<u>12/31/2015</u>
Contractually required contribution	36,170	46,709	43,278
Contributions in relation to the contractually required contribution	<u>36,170</u>	<u>46,709</u>	<u>43,278</u>
Contribution deficiency	-	-	-
PHA's covered payroll	255,681	353,920	343,796
Contributions as a percentage of covered employee payroll	14.15%	13.20%	12.59%

**BIG SANDY WATER DISTRICT  
NOTES TO THE REQUIRED SUPPLEMENTAL INFORMATION  
December 31, 2017**

***Method and assumptions used in calculations of actuarially determined contributions.*** The actuarially determined contribution rates are determined on an annual basis beginning with the fiscal year ending 2018, determined as of July 1, 2016. The amortization period of the unfunded liability has been reset as of July 1, 2013 to a closed 30-year period. The following actuarial methods and assumptions were used to determine contribution rates reported in that schedule:

Actuarial cost method	Entry age
Amortization method	Level percentage of payroll, closed
Remaining amortization period	28 years
Asset valuation method	20% of the difference between market value of assets and the expected actuarial value of assets recognized
Inflation	3.25 percent
Salary increase	4.00, average, including inflation
Investment rate of return	7.50 percent, net of pension plan investment expense, including inflation

**SUPPLEMENTAL INFORMATION**

JOHN T. LANE and ASSOCIATES, LLC  
Certified Public Accountants  
219 Young Lane, Suite 2  
Mt. Sterling, Kentucky 40353  
(859) 498-9915  
www.thelanecpa.com

Member:  
American Institute of CPA's  
Kentucky Society of CPA's

**INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON  
COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN  
ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS**

Board of Commissioners  
Big Sandy Water District  
Catlettsburg, Kentucky

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards issued by the Comptroller General of the United States, the financial statements of the business-type activities of the Big Sandy Water District as of and for the year ended December 31, 2017, and the related notes to the financial statements, which collectively comprise Big Sandy Water District's basic financial statements and have issued our report thereon dated June 1, 2018.

**Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered Big Sandy Water District's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of Big Sandy Water District's internal control. Accordingly, we do not express an opinion on the effectiveness of Big Sandy Water District's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or, significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

**Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the Big Sandy Water District's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

**Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with Government Auditing Standards in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

*John T. Lane & Associates, LLC*  
Mount Sterling, Kentucky  
June 1, 2018



**Big Sandy Water District**  
**COMPARATIVE STATEMENT OF REVENUES AND EXPENSES**  
for the years ended December 31, 2017 and 2016

	<u>2017</u>	<u>2016</u>
<b>Revenues</b>		
User fees	\$ 2,575,375	\$ 2,552,418
Other water revenue	33,393	34,352
	<u>2,608,768</u>	<u>2,586,770</u>
<b>Total Revenues</b>		
	<u>2,608,768</u>	<u>2,586,770</u>
<b>Total Operating Expenses</b>	<u>2,371,844</u>	<u>2,603,890</u>
<b>Operating Income (Loss)</b>	<u>236,924</u>	<u>(17,120)</u>
<b>Nonoperating Revenues (Expenses)</b>		
Tap fees	20,075	32,575
Donated fixed assets	-	30,291
Grant income	55,946	-
Interest income	1,649	1,094
Gain on sale of capital assets	8,700	1,778
Interest expense	<u>(156,681)</u>	<u>(154,713)</u>
<b>Net Nonoperating Revenues (Expenses)</b>	<u>(70,311)</u>	<u>(88,975)</u>
<b>Net Income (Loss)</b>	<u>\$ 166,613</u>	<u>\$ (106,095)</u>

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

42. We do not have any procedure except when a fire department gets water, they are required to report any water use by the 10<sup>th</sup> of the following month.
  - a. Copies provided
  - b. When a fire department does not report by the 15th of the month, we try to notify them to submit their form, either by email or phone. In the past we have had to bill Cherryville Fire Department for not submitting their forms.
  - c. Cherryville Fire Department's meter has been removed since 2015. We do know if the fire department has been dissolved.
  - d. Kentucky Rural Water Form attached.
  - e. We rely on the fire department to report their usage.

**Bobbi Burton**

# 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.

	(name of Fire Department)	Month	
		Year	

	(name of Water System)	unit conversion factor	29.83
		coefficient value	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

Signed \_\_\_\_\_ Date \_\_\_\_\_  
(fire department representative)

For Portions of Boyd, Carter, Johnson & Lawrence Counties  
Community, Town or City

P.S.C. KY. NO. 1

Original SHEET NO. 15

Big Sandy Water District  
(Name of Utility)

CANCELLING P.S.C. KY. NO. \_\_\_\_\_

\_\_\_\_\_ SHEET NO. \_\_\_\_\_

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RULES & REGULATIONS

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**FIRE DEPARTMENTS:**

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 15<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 this water.

A non-reporting user's usage shall be presumed to 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.

A non-reporting user shall also be assessed a penalty of \$ 50.00 for each failure to submit a report in a timely manner.

---

DATE OF ISSUE 12/29/09

Month/Day/Year

DATE EFFECTIVE 01/20/10

Month/Day/Year

ISSUED BY [Redacted Signature]

TITLE Chairman

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION  
IN CASE NO. TFS2009-0911 DATED 12/29/09

PUBLIC SERVICE COMMISSION  
OF KENTUCKY  
EFFECTIVE  
1/20/2010  
PURSUANT TO 807 KAR 5:011  
SECTION 9 (1)

By [Redacted Signature]  
Executive Director

[Redacted]

[Redacted]



1914

The following is a list of the names of the persons who have been  
 named in the report of the committee on the subject of the  
 proposed amendment to the constitution of the State of New York.  
 The names are arranged in alphabetical order of the surnames.  
 The names of the persons who have been named in the report  
 of the committee on the subject of the proposed amendment to  
 the constitution of the State of New York are as follows:

\_\_\_\_\_  
 \_\_\_\_\_

### Monthly Hydrant Flushing Report

Big Sandy Water (name of Water System)

Month  
Year

February  
2018

Big Sandy Fire Dept. (PWSID)

Formula:  $GPM = 29.83 \text{ cd}^2 \sqrt{p}$  unit conversion factor  
coefficient value

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	Estimate Flow If Pitot no used
2/19/2018	Big Sandy F.A.	Training					3000	

Signed: [Signature] Date: 3/5/2018 Total Gallons for Month 3000

chief [Signature] Kentucky Rural Water Association 2009



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# Monthly Hydrant Flushing Report



Big Sandy Water (name of Water System)

Month  
Year

March  
2018

Big Sandy Fire Dept (PWSID)

Formula:  $GPM = 29.83 cd^2 \sqrt{p}$   
unit conversion factor coefficient value

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	Estimate Flow If Pitot no used
3/29/2018	Big Sandy FD						1000	

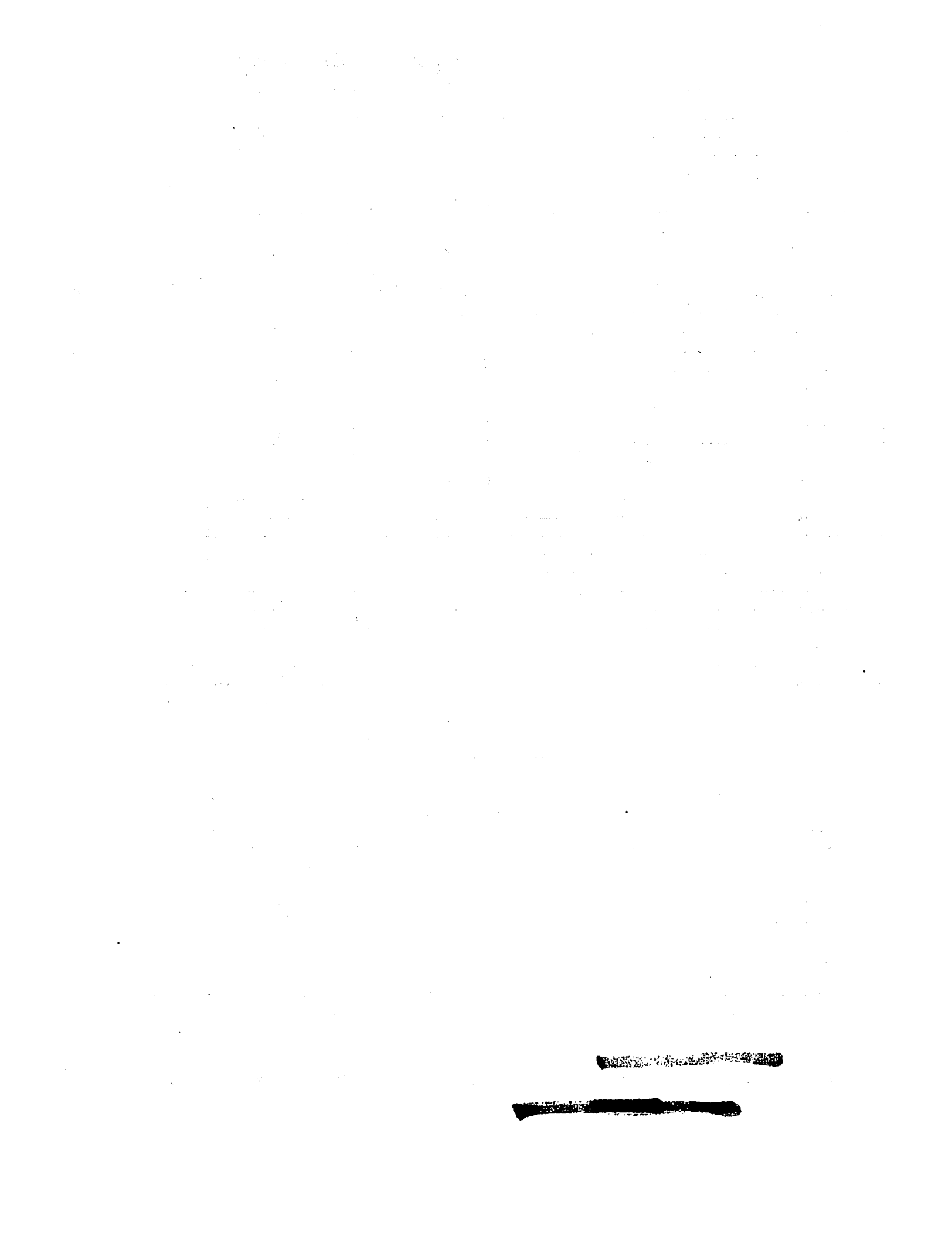
Signed:

*[Handwritten Signature]*  
Chief *[Redacted]*

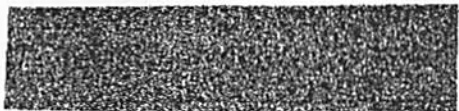
Date: 4/2/2018

Total Gallons for Month

1000



### Monthly Hydrant Flushing Report



Big Sandy Water (name of Water System)

Month April  
Year 2018

Big Sandy Fire Dept (PWSID)

Formula:  $GPM = 29.83 \text{ cd}^2 \sqrt{p}$   
unit conversion factor coefficient value 

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	Estimate Flow If Pitot no used

Signed: [Signature] Date: 5/5/2018 Total Gallons for Month 0  
Chief [Signature] Kentucky Rural Water Association 2009

[REDACTED]

# Monthly Hydrant Flushing Report



Big Sandy Water (name of Water System)

Month MAY  
Year 2018

Big Sandy Fire Dept (PWSID)

unit conversion factor 29.83  
coefficient value 0.95

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

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pitot Pressure	GPM	Gallons Flowed	Estimate Flow if Pitot no used
5/3/2018	Big Sandy Fire	Pump Testing					4000	

Signed: [Signature] Date: 6/11/2018 Total Gallons for Month 4000  
 Chief Tim Stewart Kentucky Rural Water Association 2009



Cannonsburg Water District  
1606 Cannonsburg Road  
Ashland, KY 41102

Monthly Hydrant Flushing Report


Big Sandy Water (name of Water System)

Month: June  
Year: 2018

Big Sandy Fire Dept (PWSID)

Formula: GPM = 29.83 cd<sup>2</sup>√p  
unit conversion factor: 29.83  
coefficient value: 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
6/23/2018	Big Sandy F.D.	Training					2000	

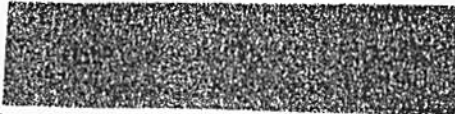
Signed:   
 Chief Tom Stewart  
 Date: 7/2/2018  
 Total Gallons for Month: 2000  
 Kentucky Rural Water Association 2009



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Two lines of dark, illegible text at the bottom of the page, possibly a signature or stamp.

**Monthly Hydrant Flushing Report**



Big Sandy Water (name of Water System)

Month  
Year

JULY  
2018

Big Sandy Fire Dept (PWSID)

Formula:  $GPM = 29.83 cd^2 \sqrt{p}$   
unit conversion factor coefficient value: 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	Estimate Flow if Pitot no used

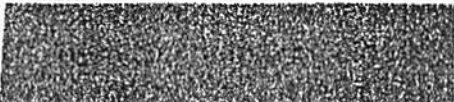
Signed: Date: 8/6/2018 Total Gallons for Month 0

Chief →

Table with multiple columns and rows, containing faint text and numbers. The table structure is complex with many columns and rows, but the content is illegible due to low contrast and blurriness.

Handwritten scribbles or marks at the bottom right of the page.

# Monthly Hydrant Flushing Report



Big Sandy water (name of Water System)

Month  
Year

AUGUST  
2018

Big Sandy F.A. (PWSID)

Formula:  $GPM = 29.83 cd^2 \sqrt{p}$  unit conversion factor  
coefficient value

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	Estimate Flow if Pitot no used
<u>8/13/2018</u>	<u>Big Sandy F.A.</u>	<u>Training</u>					<u>2000</u>	

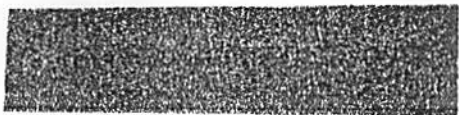
Signed: [Signature]

Date: 9/7/2018

Total Gallons for Month: 2000

Chief [Signature]

[REDACTED]



**Monthly Hydrant Flushing Report**

Big Sandy Water (name of Water System)

Month: September  
Year: 2018

Big Sandy Fire (PWSID)

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

unit conversion factor  
coefficient value: 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	Estimate Flow if Pitot no used
9/17/2018	Big Sandy F.D.	Vehicle Fire					300	
9/21/2018	Big Sandy F.D.	Structure Fire					3000	

3500

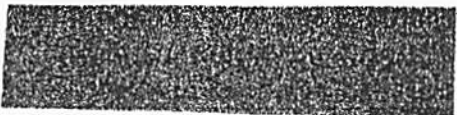


The following table shows the results of the experiment. The first column is the time in minutes, the second column is the distance in meters, and the third column is the speed in meters per second.

Time (min)	Distance (m)	Speed (m/s)
0	0	0
10	100	100/60 = 1.67
20	200	200/60 = 3.33
30	300	300/60 = 5.00
40	400	400/60 = 6.67
50	500	500/60 = 8.33
60	600	600/60 = 10.00
70	700	700/60 = 11.67
80	800	800/60 = 13.33
90	900	900/60 = 15.00
100	1000	1000/60 = 16.67

[REDACTED]

### Monthly Hydrant Flushing Report



Big Sandy water (name of Water System)

Month: October  
Year: 2018

Big Sandy Fire Dept (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	Estimate Flow If Pitot no used
<u>10/21/2018</u>	<u>Big Sandy Fire Dept</u>	<u>HOSE TESTING</u>					<u>5000</u>	
<u>10/29/2018</u>	<u>Big Sandy Fire Dept</u>	<u>TRAINING</u>					<u>2000</u>	

Signed: [Signature]

Date: 10/29/2018 Total Gallons for Month: 7000

Chief [Signature]







[REDACTED]





# 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.

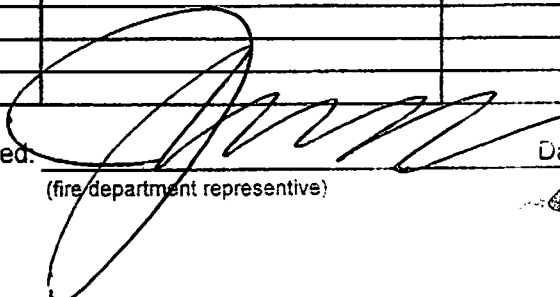
A non-reporting user's usage shall be presumed to be 0.3 percent of the utility's total water sales for the calendar month.

(name of Fire Department)
 Month Year


(name of Water System)

unit conversion factor   
 coefficient value

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

Signed:  (fire department representative)

Date: \_\_\_\_\_ Total Gallons for Month:

 Kentucky Rural Water Association 2009

Rec'd 9/26/18

### 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 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 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.

**EAST FORK FD** (name of Fire Department)

Month **02**  
Year **18**

**Big Sandy** (name of Water System)

unit conversion factor **29.83**  
coefficient value **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
<b>NO DATA</b>							

Signed: [Signature]  
(fire department representative)

Date: \_\_\_\_\_

Total Gallons for Month **0**

# 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 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 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 such usage.

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.

EAST FORK F.D. (name of Fire Department)

Month 03  
Year 18

Big Sandy (name of Water System)

unit conversion factor 29.83  
coefficient value 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

Signed: [Signature]  
(fire department representative)

Date: \_\_\_\_\_

Total Gallons for Month 0



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 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 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 used.

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.

EAST FORK F.D. (name of Fire Department)

Month 04

Big Sandy (name of Water System)

Year 18

unit conversion factor  
coefficient value 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

Signed: [Signature]  
(fire department representative)

Date: \_\_\_\_\_ Total Gallons for Month 0



# 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 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 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 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 used.

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.

EAST Fork (name of Fire Department)

Month 06  
Year 18

Big Spring (name of Water System)

unit conversion factor 29.83  
coefficient value 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

Signed: \_\_\_\_\_  
(fire department representative)

Date: \_\_\_\_\_

Total Gallons for Month 0

**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 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 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 used.

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.

(name of Fire Department)

Month   
Year

(name of Water System)

unit conversion factor   
coefficient value

Date	Hydrant Location and/or Number	Reason Operated	Total Minutes Operated	Nozzle size (typically 2.5 or 4.5)	Pitot Pressure	GPM	Gallons Flowed

Signed:   
(fire department representative)

Date: \_\_\_\_\_

Total Gallons for Month

# 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' 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 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 used.

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.

EAST FORK (name of Fire Department)

Month 08  
Year 18

Big Sandy (name of Water System)

unit conversion factor 29.83  
coefficient value 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

Signed: [Signature]  
(fire department representative)

Date: \_\_\_\_\_

Total Gallons for Month 0



# 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 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 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 such water usage.

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.

EAST FORK (name of Fire Department)

Month 09  
Year 18

Big Sandy (name of Water System)

unit conversion factor 29.83  
coefficient value 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

Signed: [Signature]  
(fire department representative)

Date: \_\_\_\_\_

Total Gallons for Month 0

# 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.

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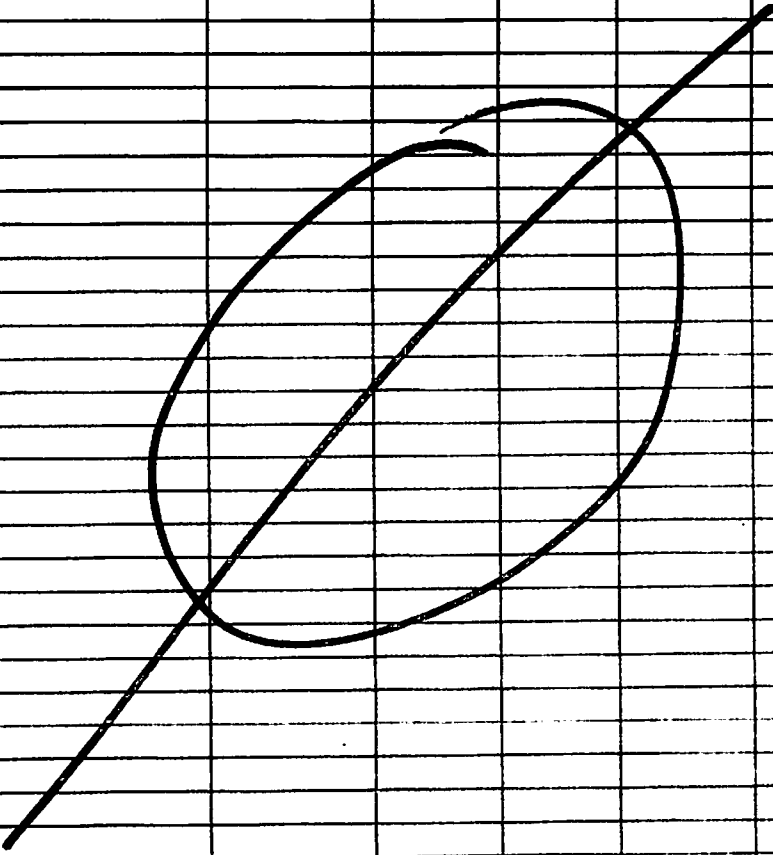
A non-reporting user's usage shall be presumed to be 0.3 percent of the utility's total water sales for the calendar month.

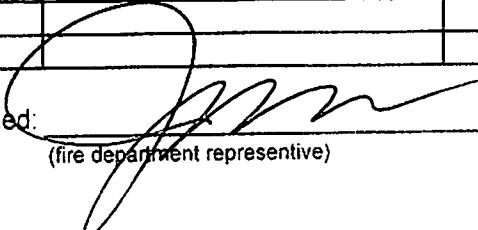
EAST FORK (name of Fire Department)

Month 10  
Year 18

BIG SANDY (name of Water System)

unit conversion factor 29.83  
coefficient value 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
								

Signed:   
(fire department representative)

Date: 10/18

Total Gallons for Month 0

# 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.

EAST FORK (name of Fire Department)

Month  
Year

11  
18

BIG SANDY (name of Water System)

unit conversion factor  
coefficient value

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

Signed: [Signature]  
(fire department representative)

Date: 11/18

Total Gallons for Month: 0





















### 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.

LOWUANSVILLE VFD (name of Fire Department)

Month Year Aug 2018

(name of Water System)

unit conversion factor 29.83 coefficient value 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

Signed: Date: 9-12-18 Total Gallons for Month:

**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.

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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.

<u>Lowmansville VFI</u>	(name of Fire Department)	Month	<u>Sept</u>
	(name of Water System)	Year	<u>2018</u>

unit conversion factor	29.83
coefficient value	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

Signed: Date: 10-16-18 Total Gallons for Month:

(fire department representative)

### Fire Department - Water Usage Report Form

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

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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.

Lowmansville VFD (name of Fire Department)

Month  
Year

October  
2018

\_\_\_\_ (name of Water System)

unit conversion factor 29.83  
coefficient value 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
<u>10/7/18</u>	<u>Lowmansville Post Office</u>	<u>Structural Fire</u>						<u>5000</u>
<u>10/12/18</u>	<u>Lowmansville Post Office</u>	<u>Structural Fire</u>						<u>250</u>

Signed: [Signature]  
(fire department representative)

Date: 11/23/18 Total Gallons for Month: 60

# Fire Department - Water Usage Report Form

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

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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.

LOWMANSVILLE VFD (name of Fire Department)

Month  
Year

NOV

2018

(name of Water System)

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

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

Signed: [Signature]  
(fire department representative)

Date: 12-7-18 Total Gallons for Month 0

### 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.

Loumansville VFD (name of Fire Department)

Month Dec  
Year 2018

(name of Water System)

unit conversion factor 29.83  
coefficient value 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
<u>12/14/18</u>	<u>Loumansville post office</u>	<u>Structure fire</u>						<u>7000</u>

Signed: [Signature]  
(fire department representative)

Date: 1-4-19

Total Gallons for Month 7000

# Fire Department - Water Usage Report Form

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

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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.

**Norton Branch Fire Dept** (name of Fire Department)

Month Year **January 2018**

**Big Sandy** (name of Water System)

unit conversion factor coefficient value 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
1/2/2018	Firehouse							1,600
1/6/2018	Firehouse							1,600

Signed: \_\_\_\_\_ Date: \_\_\_\_\_ Total Gallons for Month **3,200**  
(fire department representative)

# 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.

**Norton Branch Fire Dept** (name of Fire Department)

Month **February**  
Year **2018**

**Big Sandy** (name of Water System)

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

Signed: \_\_\_\_\_ Date: \_\_\_\_\_ Total Gallons for Month **0**  
(fire department representative)

# 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.

**Norton Branch Fire Dept** (name of Fire Department)

Month **March**  
Year **2018**

**Big Sandy** (name of Water System)

unit conversion factor **29.83**  
coefficient value **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
3/6/2018	Firehouse							1,000
3/16/2018	Firehouse							2,600
3/21/2018	Firehouse							1,600
3/22/2018	Firehouse							1,600
29-Mar	Firehouse							1,600

Signed: \_\_\_\_\_ Date: \_\_\_\_\_ Total Gallons for Month **8,400**  
(fire department representative)























**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**43. When flushing we use our readings from our zone meters to estimate how much water we flushed. If we do not have a zone meter we can only guess how much. We can also use our tank level from our telemetry to calculate the usage.**

**James Blanton**

Appendix # C

Case #2019-00041

Dated: March 12, 2019

44. We do not have any flushing equipment.

James Blanton

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

45. We use our daily readings from our zone meters and also our telemetry shows the tank levels we can calculate how much the tank drops and figure accordingly.

**James Blanton**

Copies of work orders for flushing are attached. Also flushing is on the Water Loss Report supplied in question #1.

**Bobbi Burton**

Big Sandy Water District  
**WORK ORDER 20351**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 1/4/2018  
Status Regular  
Scheduled 01/04/18 10:45 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84897814	1490153340	5597	0	

Description Water really milky. Flushed at blow off approximately 2000 gallons.

Comment

Requested By	Customer	Assigned To	Completed By
Start Date	01/04/18 09:43 AM		Completed Date 01/12/18 09:43 AM

Notes

██████████  
██████████  
██████████  
██████████

Big Sandy Water District  
**WORK ORDER 20425**

Account # 0005-24682-001  
Name Martin, Beverly  
Address 3201 Pigeon Roost Rd Rush, KY 41168  
Telephone (606) 928-1887 Job #

Order Date 1/11/2018  
Status Scheduled  
Scheduled 01/11/18 08:49 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891567	1490123042	7093	0	

Description Egg - sulfur smell. Flushed water.

Comment

Requested By customer

Assigned To Les Blanton

Completed By Les Blanton

Start Date 01/11/18 02:22 PM

Completed Date 01/11/18 02:22 PM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 20584**

Account # 0020-15500-001  
Name Chaffin, John C  
Address 946 Highway 2565 Louisa, KY 41230  
Telephone (606) 638-3634 Job #

Order Date 1/30/2018  
Status Regular  
Scheduled 01/30/18 10:32 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79770084	1490145268	1780	0	

Description Water real milky. Flushed water for 20mins water real milky with some air.

Comment

Requested By Customer Assigned To Completed By  
Start Date 01/30/18 08:27 AM Completed Date 01/31/18 08:27 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 20656**

Account # 0020-15500-001  
Name Chaffin, John C  
Address 946 Highway 2565 Louisa, KY 41230  
Telephone (606) 638-3634 Job #

Order Date 2/12/2018  
Status Scheduled  
Scheduled 02/12/18 11:55 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79770084	1490145268	1800	0	

Description Customer still has milky water. 20mins x 150gpm = 3000 gallons.

Comment

Requested By customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 02/12/18 02:33 PM

Completed Date 02/12/18 02:33 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 20696**

Account # 0010-07650-001  
Name Fitzgerald, John  
Address 627 Raven Rock Fork Rd Louisa, KY 41230  
Telephone (606) 686-2856 Job #

Order Date 2/20/2018  
Status Scheduled  
Scheduled 02/20/18 02:15 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891307	1490155186	4389	0	
<b>Description</b>	Alot of air in his lines. Flushed 3" Bo 1 hour 3,000 gallons, Flushed 2" Bo			
<b>Comment</b>	30 mins 4,500 gallons.			
<b>Requested By</b>	customer	<b>Assigned To</b>		<b>Completed By</b>
<b>Start Date</b>	02/20/18 03:26 PM			<b>Completed Date</b> 02/23/18 03:26 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 20700**

Account # 0004-00200-001  
Name Maddox, Linda  
Address 3642 Blue Ribbon Dr Callettsburg, KY 41129  
Telephone (606) 929-5670 Job #

Order Date 2/21/2018  
Status Scheduled  
Scheduled 02/21/18 09:28 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 41251904	1471531103	2125	0	

Description Has a lot of air in the line. Dirty water opened blow off 10 mins. run clear.

Comment

Requested By customer	Assigned To	Completed By
Start Date 02/21/18 01:28 PM		Completed Date 02/21/18 01:28 PM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 20701**

Account # 0004-06800-006  
Name Howell, Charles & Tammy  
Address 18911 Bear Creek Rd Gallitsburg, KY 41128  
Telephone (606) 928-0023 Job #

Order Date 2/21/2018  
Status Scheduled  
Scheduled 02/21/18 09:31 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79790252	1471518440	11593	0	
Description	Water muddy and alot of air in lines. Flushed fire hydrant on Bear Creek			
Comment	2,000 Gallons 2/21/2018			
Requested By	customer	Assigned To	Bill and Tommy	Completed By Bill and Tommy
Start Date	02/21/18 02:00 PM			Completed Date 02/21/18 02:00 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 20702**

Account # 0005-08000-008  
Name Adkins, Donnie A  
Address 24 Mary Ct Rush, KY 41163  
Telephone (606) 928-5796 Job #

Order Date 2/21/2018  
Status Regular  
Scheduled 02/21/18 11:58 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948730	1471647352	7359		
Description Dirty water - Flushed water				
Comment				
Requested By Customer		Assigned To Les Blanton		Completed By Les Blanton
Start Date 02/21/18 03:28 PM		Completed Date 02/21/18 03:28 PM		

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 20706**

Account # 0010-02870-001  
Name Workman, Danny  
Address 44 Tigger Br Louisa, KY 41230  
Telephone (606) 686-2693 Job #

Order Date 2/22/2018  
Status Regular  
Scheduled 02/22/18 11:35 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 76106162	1483975668	2071		
Description A lot of air. Flushed water				
Comment				
Requested By Customer		Assigned To Les Blanton		Completed By Les Blanton
Start Date 02/22/18 03:27 PM		Completed Date 02/22/18 03:27 PM		

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 20719**

Account # 0010-06950-003  
Name Hogston, Gary & Bellanie  
Address 1382 Left Fork Morgans Creek R Louisa, KY 41230-8805  
Telephone (606) 794-1248 Job #

Order Date 2/23/2018  
Status Regular  
Scheduled 02/23/18 08:11 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84897922	1490162870	3046		

Description A lot of air. Found blow off valve let run for 20 mins.

Comment

Requested By Customer Assigned To Completed By

Start Date 02/23/18 03:10 PM Completed Date 02/28/18 03:10 PM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 20725**

Account # 0012-03949-001  
Name Bentley, Caleb  
Address 4801 Spankem Branch Rd Louisa, KY 41230  
Telephone (606) 686-1149 Job #

Order Date 2/26/2018  
Status Scheduled  
Scheduled 02/26/18 10:00 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948774	1471647414	3246		
Description	water is brown & airy			
Comment	Flushed 2,000 @ blowes on Spankem Branch Hill			
Requested By	customer	Assigned To	Completed By	
Start Date	02/26/18 11:32 AM		Completed Date 02/27/18 11:32 AM	

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 20727**

Account # 0005-07650-001  
Name Young, Ronnie  
Address 18207 Big Run Trce Catlettsburg, KY 41129  
Telephone (606) 928-8307 Job #

Order Date 2/26/2018  
Status Scheduled  
Scheduled 02/26/18 12:07 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948735	1545274960	7473	0	

Description air in lines. Flushed 1,000 gallons.

Comment

Requested By customer Assigned To Tommy Cornwell Completed By Tommy Cornwell

Start Date 02/26/18 10:58 AM Completed Date 02/27/18 10:58 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 20742**

Account # 0010-07740-001  
Name Chaffin, Dennie R  
Address 1686 Raven Rock Fork Rd Louisa, KY 41230  
Telephone (606) 686-2635 Job #

Order Date 2/28/2018  
Status Scheduled  
Scheduled 02/28/18 09:36 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 75152488	1483414624	1834		

Description water cloudy (air) Let water run out blow off for 30 mins.

Comment

Requested By customer Assigned To Completed By  
Start Date 02/28/18 03:07 PM Completed Date 02/28/18 03:07 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 20752**

Account # 0020-04710-001  
Name Fields, Eula M  
Address 4847 Yellow Creek Rd Louisa, KY 41230  
Telephone (606) 673-4124 Job #

Order Date 3/1/2018  
Status Scheduled  
Scheduled 03/01/18 12:00 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34723103	1490163760	3035		
Description	water is cloudy & hot water tank is taking in a lot of air			
Comment	air release blowed off			
Requested By	customer	Assigned To	Completed By	
Start Date	03/01/18 10:01 AM		Completed Date 03/02/18 10:01 AM	

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 20775**

Account # 0002-14325-001  
Name Gibson, Bob  
Address 18600 Brooks Ln Catlettsburg, KY 41129  
Telephone (606) 928-5750 Job #

Order Date 3/6/2018  
Status Regular  
Scheduled 03/06/18 12:45 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84897953	1486459174	4164		
Description	A lot of air			
Comment	Flushed 1,000 gal			
Requested By	Customer	Assigned To	Bill and Tommy	Completed By Bill and Tommy
Start Date	03/06/18 03:27 PM			Completed Date 03/06/18 03:27 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 20779**

Account # 0020-11500-001  
Name Reed, Conard  
Address 33 Maize Ln Louisa, KY 41230  
Telephone (606) 673-3577 Job #

Order Date 3/7/2018  
Status Scheduled  
Scheduled 03/07/18 09:30 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 37736320	1483707538	3270	0	

Description Yellowish water - and has some air.

Comment Flushed 4000 gallons.

Requested By customer Assigned To Completed By

Start Date 03/07/18 03:30 PM Completed Date 03/07/18 03:30 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 20856**

Account # 0002-15550-008  
Name Arnett, Scott & Patricia  
Address 5401 Whites Crk Catlettsburg, KY 41129  
Telephone (606) 931-0042 Job #

Order Date 3/22/2018  
Status Scheduled  
Scheduled 03/22/18 02:55 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77494489	1471521806	4881	0	

Description Milky and alot of air in lines. Flushed blow off approx 3,500 gallons.

Comment

Requested By customer Assigned To Completed By  
Start Date 03/22/18 10:09 AM Completed Date 03/23/18 10:09 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 20931**

Account # 0023-26249-001  
Name Spence, Danny  
Address 151 Cresley Branch Rd Ulysses, KY 41264  
Telephone (606) 673-1348 Job #

Order Date 4/11/2018  
Status Scheduled  
Scheduled 04/11/18 08:30 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34722916	1490156126	5664	0	
Description	Air in lines. 10mins x 125gpm = 1,250gallons			
Comment				
Requested By	customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	04/11/18 10:26 AM			Completed Date 04/11/18 10:26 AM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 20932**

Account # 0020-04710-001  
Name Fields, Eula M  
Address 4847 Yellow Creek Rd Louisa, KY 41230  
Telephone (606) 673-4124 Job #

Order Date 4/11/2018  
Status Regular  
Scheduled 04/11/18 09:42 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34723103	1490163760	3117		

Description Water really white. Flushed from 11:14 to 12:00 @ 75gpm

Comment 46 mins @ 75gpm = 3,450 gallons.

Requested By Customer Assigned To Jimmy Blanton Completed By Jimmy Blanton  
Start Date 04/11/18 07:49 AM Completed Date 04/11/18 07:49 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 20963**

Account # 0005-15000-008  
Name Richendollar, Tasha & Donald  
Address 1220 Christy Ln Rush, KY 41168-9508  
Telephone (740) 307-1335 Job #

Order Date 4/16/2018  
Status Regular  
Scheduled 04/16/18 02:25 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948584	1490123922	3981		

Description A lot of air. Flushed 20mins.

Comment

Requested By Customer

Assigned To Les Blanton

Completed By Les Blanton

Start Date 04/16/18 08:31 AM

Completed Date 04/17/18 08:31 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 20964**

Account # 0005-14975-002  
Name Bell, Debbie  
Address 1241 Christy Ln Rush, KY 41168-9508  
Telephone 923-0610 Job #

Order Date 4/16/2018  
Status Scheduled  
Scheduled 04/16/18 02:30 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38695827	1487439286	1069		

Description Alot of air in her lines.

Comment Flushed lines 20mins.

Requested By customer

Assigned To Les Blanton

Completed By Les Blanton

Start Date 04/16/18 08:38 AM

Completed Date 04/16/18 08:38 AM

Notes

Signature \_\_\_\_\_

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██████████

Big Sandy Water District  
**WORK ORDER 21077**

Account # 0011-09150-002  
Name Yates, Patrick  
Address 48 Cooksey Cemetary Rd Denton, KY 41132  
Telephone (606) 474-2821 Job #

Order Date 5/2/2018  
Status Regular  
Scheduled 05/02/18 07:47 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 75502518	1490187846	5244	0	

Description Water real cloudy - Flushed water 1 hour.

Comment

Requested By Customer Assigned To Les Blanton Completed By Les Blanton

Start Date 05/02/18 12:56 PM Completed Date 05/02/18 12:56 PM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 21078**

Account # 0011-08335-001  
Name Berry, Tonia & Kelly  
Address 304 Allen Rd Denton, KY 41132-8981  
Telephone (606) 316-5551 Job #

Order Date 5/2/2018  
Status Scheduled  
Scheduled 05/02/18 08:45 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79385534	1545536564	479		

Description Flushed 1 hour.

Comment

Requested By customer

Assigned To Les Blanton

Completed By Les Blanton

Start Date 05/02/18 12:56 PM

Completed Date 05/02/18 12:56 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21098**

Account # 0002-03150-004  
Name Yates, Shawn & Rebecca  
Address 30120 Faulkner Rd Cateletsburg, KY 41129  
Telephone (606) 615-0243 Job #

Order Date 5/3/2018  
Status Regular  
Scheduled 05/03/18 03:21 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79555729	1471137144	1993		

Description Water brown - Can't find blow off - will call Friday morning if still dirty.

Comment

Requested By Customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 05/03/18 12:53 PM

Completed Date 05/03/18 12:53 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
WORK ORDER 21112

Account # 0023-26249-001  
Name Spence, Danny  
Address 151 Cresley Branch Rd Ulysses, KY 41264  
Telephone (606) 673-1348 Job #

Order Date 5/7/2018  
Status Scheduled  
Scheduled 05/07/18 11:22 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
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WT 34722916	1490156126	5693	0	
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Description Be sure and flush his line always gets stuff in it after a leak.

Comment 12:45 - 1:33 @ 75gpm air still there but not dirty

Requested By customer Assigned To Jimmy Blanton Completed By Jimmy Blanton

Start Date 05/07/18 03:41 PM Completed Date 05/07/18 03:41 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21121**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 5/8/2018  
Status Regular  
Scheduled 05/08/18 09:41 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 75152499	1490152090	5083	0	

Description A lot of air in lines. 3" blow off needs changed 5/9/18 5,000 gallons, valve wil

Comment not shut. Replaced valve & blow off pipe.

Requested By Customer

Assigned To

Completed By

Start Date 05/08/18 09:03 AM

Completed Date 05/09/18 09:03 AM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
WORK ORDER 21129

Account # 0020-19950-001  
Name Williams, Gary  
Address 245 Meades Branch Rd Louisa, KY 41230  
Telephone (606) 673-3195 Job #

Order Date 5/9/2018  
Status Regular  
Scheduled 05/09/18 08:51 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
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WT 79425867	1487958524	5872	0	
Description	A lot of air and really milky/ 11:54-12:24 @150gpm =4,500gallons.			
Comment				

Requested By Customer Assigned To Jimmy Blanton Completed By Jimmy Blanton  
Start Date 05/09/18 03:26 PM Completed Date 05/09/18 03:26 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21139**

Account # 0021-04499-001  
Name Moore, James A  
Address 649 Thompson Fork Rd Louisa, KY 41230  
Telephone (606) 673-4243 Job #

Order Date 5/10/2018  
Status Regular  
Scheduled 05/10/18 12:00 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 74909331	1483711620	6308	0	
Description	A lot of air making pipes dance. Flushed from 12:38 to 1:27pm @ 100gpm			
Comment	49mins x 100 = 4,900 gallons			
Requested By	Customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	05/10/18 03:18 PM			Completed Date 05/10/18 03:18 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21146**

Account # 0021-27849-001  
Name Maynard, Bobbie  
Address 1005 Ash Branch Rd Louisa, KY 41230  
Telephone (606) 652-3922 Job #

Order Date 5/11/2018  
Status Scheduled  
Scheduled 05/11/18 11:01 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 33111189	1490155054	4670	0	
Description	so much air in lines it rattles pipes cust does have reg on their side			
Comment	flushed lines			
Requested By	customer	Assigned To	Les Blanton	Completed By Les Blanton
Start Date	05/11/18 12:03 PM			Completed Date 05/11/18 12:03 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21163**

Account # 0021-24874-001  
Name Adams, Doug & Gloria  
Address 411 Long Fork Rd Louisa, KY 41230-7936  
Telephone (606) 652-7568 Job #

Order Date 5/15/2018  
Status Scheduled  
Scheduled 05/15/18 03:32 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34722926	1484695746	2504		

Description Customer said they have a lot of air in line. Please flush.  
Comment Flushed 6,000 gallons.

Requested By customer Assigned To Tommy Cornwell Completed By Tommy Cornwell  
Start Date 05/18/18 02:34 PM Completed Date 05/18/18 02:34 PM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 21231**

Account # 0022-04050-001  
Name Burgess, Mark  
Address 103 Nats Creek Rd Louisa, KY 41230  
Telephone (606) 673-3706 Job #

Order Date 5/25/2018  
Status Regular  
Scheduled 05/25/18 11:02 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79790174	1490156374	5154	0	

Description A lot of air. Flushed blow off head of Nats Creek 5,000 gallons, flushed blow  
Comment off end of 1690 5,000 gallons.

Requested By Customer Assigned To Completed By  
Start Date 05/25/18 08:20 AM Completed Date 05/25/18 08:20 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21234**

Account # 0002-14450-002  
Name Gibson, J W & Radella  
Address 17500 Brooks Dr Calllettsburg, KY 41129  
Telephone (606) 928-4007 Job #

Order Date 5/25/2018  
Status Regular  
Scheduled 05/25/18 03:49 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948599	1471553564	5199		

Description A lot of air and smells. Flushed lines on end of road.

Comment

Requested By Customer Assigned To Les Blanton Completed By Les Blanton

Start Date 05/25/18 12:03 PM Completed Date 05/25/18 12:03 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21272**

Account # 0002-14350-004  
Name Hale, Jake  
Address 18715 Brooks Dr Catlettsburg, KY 41129-9200  
Telephone (606) 923-3054 Job #

Order Date 6/6/2018  
Status Regular  
Scheduled 06/06/18 01:33 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948594	1471549712	9020		

Description Flushed 3,000 gallons.

Comment

Requested By Customer Assigned To Tommy Cornwell Completed By Tommy Cornwell

Start Date 06/06/18 09:00 AM Completed Date 06/06/18 09:00 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21397**

Account # 0008-06200-001  
Name Roe, Randy  
Address 287 Williams Crk Rush, KY 41168  
Telephone (606) 474-2610 Job #

Order Date 6/27/2018  
Status Scheduled  
Scheduled 06/27/18 02:35 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 37736322	1490194448	1298	0	
Description water has a chemical odor. 1:13 - 1:47 75gpm @ 30mins = 2,250gals.				
Comment				
Requested By customer		Assigned To Jimmy Blanton		Completed By Jimmy Blanton
Start Date 06/27/18 10:57 AM		Completed Date 06/27/18 10:57 AM		

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 21404**

Account # 0001-04251-002  
Name Campbell, John  
Address 7024 State Route 3 Callettsburg, KY 41129  
Telephone (606) 739-4796 Job #

Order Date 6/28/2018  
Status Scheduled  
Scheduled 06/28/18 12:37 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948210	1471632368	2121	0	

Description Flushed for about 20mins.

Comment

Requested By customer

Assigned To Todd

Completed By Todd

Start Date 06/28/18 10:42 AM

Completed Date 06/28/18 10:42 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21495**

Account # 0021-04499-001  
Name Moore, James A  
Address 649 Thompson Fork Rd Louisa, KY 41230  
Telephone (606) 673-4243 Job #

Order Date 7/16/2018  
Status Scheduled  
Scheduled 07/16/18 09:41 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 74909331	1483711620	6436	0	

Description Alot of air in lines. Flushed @ blow off Thompson Fork 4,500 gallons.

Comment

Requested By customer

Assigned To

Completed By

Start Date 07/16/18 08:21 AM

Completed Date 07/16/18 08:21 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21496**

Account # 0022-05730-001  
Name Meade, Mary Lou  
Address 15146 Highway 1690 Louisa, KY 41230  
Telephone (606) 673-4668 Job #

Order Date 7/16/2018  
Status Scheduled  
Scheduled 07/16/18 12:47 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38695886	1486713836	636		
Description	Brown water. Flushed @ blow off @ Highway 1690 3,500 gallons			
Comment	Flushed @ blow off @ Nats Creek 3,500 gallons too.			
Requested By	customer	Assigned To	Completed By	
Start Date	07/16/18 08:20 AM		Completed Date 07/16/18 08:20 AM	

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21500**

Account # 0010-06725-008  
Name Daniels, Michael  
Address 1058 Left Fork Morgans Creek R Louisa, KY 41230-0802  
Telephone (606) 624-9656 Job #

Order Date 7/17/2018  
Status Scheduled  
Scheduled 07/17/18 08:10 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38695762	1551830092	3112		
Description	water has had a really bad odor & taste for 2-3 days has run water trying to			
Comment	flush her pipes & it isn't her drains. Flushed @ blow-off 3000gals.			
Requested By	customer	Assigned To		Completed By
Start Date	07/17/18 08:33 AM			Completed Date 07/17/18 08:33 AM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 21508**

Account # 0021-27849-001  
Name Maynard, Bobbie  
Address 1005 Ash Branch Rd Louisa, KY 41230  
Telephone (606) 652-3922 Job #

Order Date 7/17/2018  
Status Scheduled  
Scheduled 07/17/18 12:04 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 33111189	1490155054	4748	0	
Description	too much air in lines rattling pipes			
Comment	Flushed @blow-off 3,000 gal			
Requested By	customer	Assigned To	Completed By	
Start Date	07/17/18 08:46 AM		Completed Date 07/17/18 08:46 AM	

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21535**

Account # 0021-12799-001  
Name Tackett, Ronnie L  
Address 180 Lake Ridge Rd Louisa, KY 41230  
Telephone (606) 652-3674 Job #

Order Date 7/18/2018  
Status Scheduled  
Scheduled 07/18/18 01:30 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948415	1471561228	8570	0	
<b>Description</b>	Alot of air in lines. Please flush. Flushed best he could air will have to work			
<b>Comment</b>	out on it's own.			
<b>Requested By</b>	customer	<b>Assigned To</b>		<b>Completed By</b>
<b>Start Date</b>	07/18/18 09:17 AM			<b>Completed Date</b> 07/18/18 09:17 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21544**

Account # 0021-12049-005  
Name Daniels, Clifford Jr  
Address 124 Clay Ln Adams, KY 41207  
Telephone (606) 331-7441 Job #

Order Date 7/20/2018  
Status Regular  
Scheduled 07/20/18 08:27 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 43862724	1550411740	3101		
<b>Description</b>	Cloudy and bubbles in water			
<b>Comment</b>	Flushed 20mins.			
<b>Requested By</b>	Customer	<b>Assigned To</b>	Les Blanton	<b>Completed By</b> Les Blanton
<b>Start Date</b>	07/20/18 09:37 AM			<b>Completed Date</b> 07/20/18 09:37 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21545**

Account # 0005-22010-007  
Name Brown, William H  
Address 22232 Ross Rd Rush, KY 41168  
Telephone (606) 928-6858 Job #

Order Date 7/20/2018  
Status Regular  
Scheduled 07/20/18 09:06 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 43598174	1490140016	3222	0	

Description A lot of air. Flushed 7/20/18

Comment

Requested By Customer

Assigned To Les Blanton

Completed By Les Blanton

Start Date 07/20/18 07:57 AM

Completed Date 07/20/18 07:57 AM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 21552**

Account # 0010-03950-005  
Name Burch, Linda  
Address 246 Right Fork Big Cat Rd Louisa, KY 41230-8877  
Telephone (606) 939-4918 Job #

Order Date 7/23/2018  
Status Regular  
Scheduled 07/23/18 10:13 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 46407247	1542524188	238		

Description Water real milky. Flushed 2,000 gallons.

Comment

Requested By Customer Assigned To Todd Completed By Todd

Start Date 07/23/18 09:42 AM Completed Date 07/23/18 09:42 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21559**

Account # 0010-04300-001  
Name Workman, Vessie  
Address 2902 Highway 1 Louisa, KY 41230  
Telephone (606) 686-2218 Job #

Order Date 7/24/2018  
Status Regular  
Scheduled 07/24/18 10:30 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 82072582	1490122866	5557	0	

Description Water dirty - flushed thru setter 100 gallons - never got dirty or white.

Comment

Requested By Customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 07/24/18 12:35 PM

Completed Date 07/24/18 12:35 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21565**

Account # 0023-15675-001  
Name Barker, Tammy A  
Address 655 Youngs Branch Rd Lowmansville, KY 41232  
Telephone (606) 424-2145 Job #

Order Date 7/26/2018  
Status Scheduled  
Scheduled 07/26/18 12:16 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 73410340	1487443824	1234		

Description water is pale rust colored

Comment Flushed 20 mins.

Requested By customer Assigned To Les Blanton

Completed By Les Blanton

Start Date 07/26/18 09:43 AM

Completed Date 07/26/18 09:43 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21567**

Account # 0010-02870-001  
Name Workman, Danny  
Address 44 Tigger Br Louisa, KY 41230  
Telephone (606) 686-2693 Job #

Order Date 7/26/2018  
Status Scheduled  
Scheduled 07/26/18 02:35 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 76106162	1483975668	2208		
Description	Can't even take shower for the water spewing			
Comment	Flushed 30 min.			
Requested By	customer	Assigned To	Les Blanton	Completed By Les Blanton
Start Date	07/27/18 08:29 AM			Completed Date 07/27/18 08:29 AM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 21619**

Account # 0010-13200-001  
Name Patrick, Darlene  
Address 645 Shepherd Branch Rd Louisa, KY 41230  
Telephone (606) 686-1204 Job #

Order Date 7/30/2018  
Status Scheduled  
Scheduled 08/08/18 12:16 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84897871	1490161832	2875	0	

Description Alot of air in the lines. 3,000gals. flushed @ blow off.  
Comment Work order #21576 was not on this account. So made this dummy WO.  
Requested By customer Assigned To General

Completed By

Start Date 08/01/18 12:17 PM

Completed Date 08/01/18 12:17 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21580**

Account # 0010-02870-001  
Name Workman, Danny  
Address 44 Tigger Br Louisa, KY 41230  
Telephone (606) 686-2693 Job #

Order Date 7/31/2018  
Status Scheduled  
Scheduled 07/31/18 01:37 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 76106162	1483975668	2208		

**Description** Alot of air in lines. Cleared up after we flushed started again last night with  
**Comment** all kinds of air. Flushed 40 mins.

**Requested By** customer **Assigned To** Les Blanton **Completed By** Les Blanton

**Start Date** 07/31/18 11:25 AM **Completed Date** 07/31/18 11:25 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21584**

Account # 0004-03450-001  
Name White, Lawrence  
Address 5813 Dog Fork Laurel Rd Catlettsburg, KY 41129  
Telephone (606) 928-4755 Job #

Order Date 8/1/2018  
Status Regular  
Scheduled 08/01/18 10:37 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 45122463	1471522690	1114	0	

Description No chlorine in water needs flushed. Flushed 2,000 gallons

Comment

Requested By Customer

Assigned To

Completed By

Start Date 08/01/18 12:42 PM

Completed Date 08/01/18 12:42 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21608**

Account # 0023-15675-001  
Name Barker, Tammy A  
Address 855 Youngs Branch Rd Lowmansville, KY 41232  
Telephone (606) 424-2145 Job #

Order Date 8/7/2018  
Status Regular  
Scheduled 08/07/18 09:41 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 73410340	1487443824	1265		
Description A lot of air. Flushed for 35 mins 3,500 gallons.				
Comment				
Requested By Customer		Assigned To Todd		Completed By Todd
Start Date 08/07/18 11:09 AM		Completed Date 08/07/18 11:09 AM		

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 21620**

Account # 0010-03450-001  
Name Queen, James  
Address 370 Highway 1 Louisa, KY 41230  
Telephone (606) 686-2367 Job #

Order Date 8/8/2018  
Status Scheduled  
Scheduled 08/08/18 03:17 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84897965	1487952318	2986	0	

Description Alot of air. Flushed for 30mins about 3,000gals.

Comment

Requested By customer

Assigned To Todd

Completed By Todd

Start Date 08/08/18 08:53 AM

Completed Date 08/08/18 08:53 AM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21622**

Account # 0009-10150-001  
Name Cordial, Tim  
Address 2466 Highway 3399 Louisa, KY 41230  
Telephone (606) 686-1282 Job #

Order Date 8/9/2018  
Status Regular  
Scheduled 08/09/18 08:57 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77363013	1490151830	13982	0	
Description	Water dirty and has air in it			
Comment	Flushed 5,000 gallons.			
Requested By	Customer	Assigned To	Tom and Les	Completed By Tom and Les
Start Date	08/09/18 10:42 AM			Completed Date 08/09/18 10:42 AM

Notes

Signature \_\_\_\_\_



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Big Sandy Water District  
WORK ORDER 21625

Account # 0009-08395-002

Name Salyer, Sandra

Address 3745 Blaine Creek Rd Louisa, KY 41230-8793

Telephone (606) 244-0182

Job #

Order Date 8/9/2018

Status Regular

Scheduled 08/09/18 11:13 AM

Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 85370667	1487777066	1361		
Description	Really milky - Flushed 1,000 gals.			
Comment				
Requested By	Customer	Assigned To	Tom and Les	Completed By Tom and Les
Start Date	08/09/18 10:43 AM			Completed Date 08/09/18 10:43 AM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 21655**

Account # 0020-11200-003  
Name Conley, Larry  
Address 8055 Highway 1690 Louisa, KY 41230  
Telephone (606) 826-0034 Job #

Order Date 8/16/2018  
Status Scheduled  
Scheduled 08/16/18 09:40 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 93317330	1490180200	1452	0	
<b>Description</b> A lot of air in the lines. Flushed about 2,500 gallons - 20 mins.				
<b>Comment</b>				
<b>Requested By</b> customer		<b>Assigned To</b> Todd		<b>Completed By</b> Todd
<b>Start Date</b> 08/16/18 09:50 AM		<b>Completed Date</b> 08/16/18 09:50 AM		

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 21659**

Account # 0002-14400-001  
Name Lauhon, David  
Address 18516 Brooks Dr Catlettsburg, KY 41129  
Telephone (606) 928-5319 Job #

Order Date 8/16/2018  
Status Scheduled  
Scheduled 08/16/18 02:41 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84897926	1471628000	2615	0	

Description Has high pressure and water is brown. Flushed 2,000 gallons.

**Comment**

Requested By Customer Assigned To Bill and Tommy Completed By Bill and Tommy

Start Date 08/16/18 11:46 AM Completed Date 08/17/18 11:46 AM

**Notes**

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21661**

Account # 0004-07800-001  
Name Vanhoose, Brian  
Address 19217 Bear Creek Rd Callettsburg, KY 41129  
Telephone (606) 929-9592 Job #

Order Date 8/17/2018  
Status Scheduled  
Scheduled 08/17/18 08:12 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 68315911	1471510058	4858	0	

Description water is dirty, pale rusty color. Flushed water past there his should have

Comment cleared up.

Requested By customer

Assigned To Bill Brooks

Completed By Bill Brooks

Start Date 08/17/18 08:07 AM

Completed Date 08/20/18 08:07 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21665**

Account # 0004-04250-002  
Name Click, Brian & Annie  
Address 3979 Kendell Ln Callettsburg, KY 41129-8761  
Telephone (606) 371-3272 Job #

Order Date 8/17/2018  
Status Scheduled  
Scheduled 08/17/18 11:52 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948864	1471564200	5090		
Description	Water is milky - alot of air in the line			
Comment	Flushed 20mins.			
Requested By	customer	Assigned To	Les Blanton	Completed By Les Blanton
Start Date	08/17/18 08:00 AM			Completed Date 08/17/18 08:00 AM

Notes

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21670**

Account # 0005-25625-001  
Name Daniels, Connie & Kenneth  
Address 868 Clay Jack Rd Rush, KY 41168-8128  
Telephone (606) 939-0050 Job #

Order Date 8/20/2018  
Status Regular  
Scheduled 08/20/18 10:09 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948314	1546302222	3686		
Description	Water has awful taste and smell. Flushed for 30mins.			
Comment				
Requested By	Customer	Assigned To	Les Blanton	Completed By Les Blanton
Start Date	08/20/18 08:09 AM			Completed Date 08/20/18 08:09 AM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 21676**

Account # 0005-09200-001  
Name Leibee, Robert W  
Address 412 Old Trace Rd Rush, KY 41168  
Telephone (606) 928-2603 Job #

Order Date 8/20/2018  
Status Regular  
Scheduled 08/20/18 02:22 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948538	1471540134	8340	0	

Description Water really white. Flushed for 20 mins.

**Comment**

Requested By Customer Assigned To Les Blanton Completed By Les Blanton

Start Date 08/20/18 08:10 AM Completed Date 08/20/18 08:10 AM

**Notes**

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21694**

Account # 0005-12600-002  
Name Walters, Terry  
Address 15486 Riva Rdg Rush, KY 41168  
Telephone 923-8962 Job #

Order Date 8/21/2018  
Status Scheduled  
Scheduled 08/21/18 02:30 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84897770	1490113110	7269	0	

Description Alot of air in lines. Flushed 2:55 - 4:10 75mins @ 100=7,500.

Comment

Requested By customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 08/21/18 09:12 AM

Completed Date 08/21/18 09:12 AM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 21696**

Account # 0004-07750-003  
Name Fultz, Kenneth  
Address 4511 Burchett Br Catlettsburg, KY 41120  
Telephone (606) 928-2435 Job #

Order Date 8/22/2018  
Status Scheduled  
Scheduled 08/22/18 08:00 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948600	1471642996	6740		

Description FLUSHED @ BLOW-OFF 3,500 gal

Comment

Requested By customer

Assigned To

Completed By

Start Date 08/22/18 01:00 PM

Completed Date 08/22/18 01:00 PM

Notes

Signature \_\_\_\_\_

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Big Sandy Water District  
**WORK ORDER 21728**

Account # 0002-11350-001  
Name Sperry, Gary  
Address 8033 Durbin Rd Catlettsburg, KY 41129  
Telephone (606) 831-2201 Job #

Order Date 8/29/2018  
Status Scheduled  
Scheduled 08/29/18 02:33 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 38695633	1471489818	4530	0	
Description --flushed 3,000 gal 08/30/18				
Comment				
Requested By customer		Assigned To General		Completed By Tommy Cornwell
Start Date 08/30/18 09:47 AM		Completed Date 08/30/18 09:47 AM		

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 21741**

Account # 0004-08700-001  
Name Phillips, Edgar  
Address 2921 Hultz Rd Catlettsburg, KY 41129  
Telephone (606) 928-6079 Job #

Order Date 9/4/2018  
Status Regular  
Scheduled 09/04/18 03:50 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79790244	1471511944	3861	0	

Description Leaving stuff in commodes. Flushed 2,000 gallons.

Comment  
Requested By Customer Assigned To Bill and Tommy Completed By Bill and Tommy

Start Date 09/04/18 03:36 PM Completed Date 09/04/18 03:36 PM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 21787**

Account # 0020-15500-001  
Name Chaffin, Janice  
Address 946 Highway 2565 Louisa, KY 41230  
Telephone (606) 638-3634 Job #

Order Date 9/18/2018  
Status Regular  
Scheduled 09/18/18 08:56 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79770084	1490145268	1922	0	
Description	Real milky			
Comment	FLUSHED FOR ABOUT HALF AN HOUR ABOUT 2500 GAL			
Requested By	Customer	Assigned To	Todd	Completed By Todd
Start Date	09/18/18 03:07 PM			Completed Date 09/18/18 03:07 PM

Notes

Signature \_\_\_\_\_



Big Sandy Water District  
**WORK ORDER 21852**

Account # 0005-24682-001  
Name Martin, Beverly  
Address 3201 Pigeon Roost Rd Rush, KY 41168  
Telephone (606) 928-1887 Job #

Order Date 9/26/2018  
Status Regular  
Scheduled 09/26/18 08:20 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84891567	1490123042	7635	0	

Description A lot of air - Flushed for 20 mins

Comment

Requested By Customer Assigned To Les Blanton Completed By Les Blanton

Start Date 09/26/18 02:16 PM Completed Date 09/26/18 02:16 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 21868**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 10/2/2018  
Status Regular  
Scheduled 10/02/18 09:58 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 82644319	1490187344	4049	0	

Description A lot of air. Flushed 20 mins.

Comment

Requested By Customer Assigned To Les Blanton Completed By Les Blanton

Start Date 10/02/18 09:51 AM Completed Date 10/02/18 09:51 AM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 21890**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 10/5/2018  
Status Regular  
Scheduled 10/05/18 09:51 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 43862730	1471530400	5340	0	

Description Water has real strong chlorine taste

Comment Talked to him, it has cleared up.

Requested By Customer Assigned To Jimmy Blanton Completed By Jimmy Blanton  
Start Date 10/05/18 03:54 PM Completed Date 10/05/18 03:54 PM

Notes

Signature \_\_\_\_\_

[REDACTED]  
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[REDACTED]

Big Sandy Water District  
**WORK ORDER 21920**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job #

Order Date 10/11/2018  
Status Scheduled  
Scheduled 10/11/18 09:00 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT	
WT 38695551	1486460354	2101	0		
Description	1,000 gals.				
Comment					
Requested By	customer	Assigned To	Todd	Completed By	Todd
Start Date	10/11/18 10:03 AM			Completed Date	10/17/18 10:03 AM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 21930**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 10/12/2018  
Status Regular  
Scheduled 10/12/18 03:46 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34723079	1490156102	968		
Description	A lot of air			
Comment	Flushed 2,000 gal			
Requested By	Customer	Assigned To	Bill and Tommy	Completed By Bill and Tommy
Start Date	10/16/18 08:09 AM			Completed Date 10/16/18 08:09 AM

Notes

Signature \_\_\_\_\_

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Big Sandy Water District  
**WORK ORDER 21936**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 10/15/2018  
Status Regular  
Scheduled 10/15/18 11:39 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948600	1471642996	6797		

Description A lot of air. Flushed for 30 mins.

Comment

Requested By Customer Assigned To Randy and Les Completed By Randy and Les

Start Date 10/15/18 03:27 PM Completed Date 10/15/18 03:27 PM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 22014**

Account # 0004-08750-001  
Name Smith, David  
Address 2901 Hultz Rd Catlettsburg, KY 41129  
Telephone (606) 928-8815 Job #

Order Date 10/25/2018  
Status Scheduled  
Scheduled 10/25/18 09:54 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 79790245	1471516032	7457	0	
Description	Air in line			
Comment	Flushed 1500 gal			
Requested By	customer	Assigned To	Randy and Tommy	Completed By Randy and Tommy
Start Date	10/25/18 02:57 PM			Completed Date 10/25/18 02:57 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22084**

Account # 0003-09301-001  
Name Fraley, James & Mary  
Address 18101 Cherrywood Dr Catlettsburg, KY 41129  
Telephone (606) 739-6728 Job #

Order Date 11/6/2018  
Status Regular  
Scheduled 11/06/18 09:26 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34722966	1545023436	700		

Description Tastes like he is drinking clorox and tongue is raw. Flushed 3,000gals.

Comment

Requested By Customer Assigned To Tommy Cornwell Completed By Tommy Cornwell

Start Date 11/06/18 11:15 AM Completed Date 11/06/18 11:15 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22131**

Account # 0003-05801-001  
Name Lovins, Jack & Glenna  
Address 10702 Tennis Ct Catlettsburg, KY 41129-8996  
Telephone (606) 739-4400 Job #

Order Date 11/14/2018  
Status Scheduled  
Scheduled 11/14/18 09:49 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 44296646	1481564776	6370		
Description Flushed 5,000 gallons.				
Comment				
Requested By customer		Assigned To Tommy Cornwell		Completed By Tommy Cornwell
Start Date 11/14/18 10:20 AM		Completed Date 11/14/18 10:20 AM		

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22127**

Account # 0003-06351-004  
Name Storie, Ted & Sharon  
Address 18513 White Oak Dr. Catlettsburg, KY 41129-8946  
Telephone (606) 739-6940 Job #

Order Date 11/14/2018  
Status Regular  
Scheduled 11/14/18 01:24 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 41079444	1545046636	890		

Description Water is dirty. Flushed 2,500 gals.

Comment

Requested By Customer Assigned To Bill and Tommy Completed By Bill and Tommy  
Start Date 11/14/18 10:15 AM Completed Date 11/14/18 10:15 AM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
**WORK ORDER 22129**

Account # 0003-06001-001  
Name Tackett, David  
Address 6318 Goldenrod Dr Callettsburg, KY 41129  
Telephone (606) 571-2299 Job #

Order Date 11/15/2018  
Status Scheduled  
Scheduled 11/15/18 08:16 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 84897937	1471242018	4400		
Description Air and knocking. Flushed 2,500 gallons.				
Comment				
Requested By customer		Assigned To Bill and Tommy		Completed By Bill and Tommy
Start Date 11/15/18 10:11 AM		Completed Date 11/15/18 10:11 AM		

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22179**

Account # 0012-03149-001  
Name Jobe, Robert K  
Address 3544 Highway 828 Louisa, KY 41230  
Telephone (606) 686-2133 Job #

Order Date 11/26/2018  
Status Regular  
Scheduled 11/26/18 08:03 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 75502523	1484696266	500		
Description	A lot of air			
Comment	flushed line			
Requested By	Customer	Assigned To	Bill and Tommy	Completed By Bill and Tommy
Start Date	11/26/18 03:03 PM		Completed Date	11/26/18 03:03 PM

Notes

Signature \_\_\_\_\_

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Big Sandy Water District  
**WORK ORDER 22192**

Account # 0007-05760-007  
Name Enix, Matthew  
Address 6267 E US Highway 60 Rush, KY 41168  
Telephone (606) 615-3913 Job #

Order Date 11/26/2018  
Status Regular  
Scheduled 11/26/18 12:41 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 82983561	1491271898	5155		
<b>Description</b> A lot of air and its brown. 10mins x 100gpm				
<b>Comment</b>				
<b>Requested By</b> Customer		<b>Assigned To</b> Jimmy and Les		<b>Completed By</b> Jimmy and Les
<b>Start Date</b> 11/26/18 03:46 PM		<b>Completed Date</b> 11/26/18 03:46 PM		

Notes

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22219**

Account # 0012-03149-001  
Name Jobe, Robert K  
Address 3544 Highway 828 Louisa, KY 41230  
Telephone (606) 686-2133 Job #

Order Date 12/3/2018  
Status Regular  
Scheduled 12/03/18 08:28 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 75502523	1484696266	500		
Description	Still a lot of air-real close to end of line. Flushed 10:12 - 11:22 75gpm. Still			
Comment	white.			
Requested By	Customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	12/03/18 02:07 PM			Completed Date 12/03/18 02:07 PM

Notes





Big Sandy Water District  
**WORK ORDER 22271**

Account # 0012-03149-001  
Name Jobe, Robert K  
Address 3544 Highway 828 Louisa, KY 41230  
Telephone (606) 686-2133 Job #

Order Date 12/12/2018  
Status Scheduled  
Scheduled 12/12/18 11:01 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 75502523	1484696266	507		

Description Still has a lot of air.

Comment flushed line for about 30mins 'til it cleared up 3gpm - 90gals.

Requested By customer Assigned To Randy McDaniels Completed By Randy McDaniels

Start Date 12/18/18 08:13 AM Completed Date 12/18/18 08:13 AM

Notes

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22345**

Account # 0021-04499-001  
Name Moore, James A  
Address 649 Thompson Fork Rd Louisa, KY 41230  
Telephone (606) 673-4243 Job #

Order Date 12/19/2018  
Status Scheduled  
Scheduled 12/19/18 09:37 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 74909331	1483711620	6742	0	

Description Alot of air in lines - pipes jumping. Flushed 2,000 on 12/26/18

Comment

Requested By customer Assigned To Todd Completed By Todd

Start Date 12/19/18 12:49 PM Completed Date 12/26/18 12:49 PM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22346**

Account # 0012-03249-001  
Name Webbs Chapel Church  
Address 3737 Highway 828 Louisa, KY 41230  
Telephone (606) 686-2671 Job #

Order Date 12/19/2018  
Status Scheduled  
Scheduled 12/19/18 09:48 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 45851947	1542562796	648		
<b>Description</b>	really bad odor(sulfur smell) was told b4 it is because tap @end of line & is			
<b>Comment</b>	not used often to allow chlorine to evaporate & it sits in line. Flushed 15mins.			
<b>Requested By</b>	customer	<b>Assigned To</b>	Les Blanton	<b>Completed By</b> Les Blanton
<b>Start Date</b>	12/19/18 02:26 PM			<b>Completed Date</b> 12/19/18 02:26 PM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 22548**

Account # 0007-04950-001  
Name Haney, Larry Sr  
Address 445 Raquel Br Rush, KY 41168  
Telephone (606) 225-5933 Job #

Order Date 1/25/2019  
Status Scheduled  
Scheduled 01/25/19 02:51 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77221518	1490150244	1047	0	
Description	1000 gal as per jimmy			
Comment				
Requested By	jim blanton	Assigned To	General	Completed By General
Start Date	01/25/19 02:52 PM			Completed Date 01/25/19 02:52 PM

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 22560**

Account # 0007-04100-001  
Name Lykins, David  
Address 7283 E US Highway 60 Rush, KY 41168  
Telephone (606) 475-1600 Job #

Order Date 1/29/2019  
Status Regular  
Scheduled 01/29/19 01:51 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 82644299	1490134150	5001	0	

Description Water is sudsy  
Comment started @ 2:40 100gpm 3,000 gal total stopped @ 3:10

Requested By Customer Assigned To Jimmy Blanton Completed By Jimmy Blanton  
Start Date 01/29/19 09:22 AM Completed Date 01/29/19 09:22 AM

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 22609**

Account # 0014-24115-003  
Name Blankenship, Brandon & Kasey  
Address 125 Timberlake Dr Louisa, KY 41230-9163  
Telephone (606) 369-1212 Job #

Order Date 2/6/2019  
Status Regular  
Scheduled 02/06/19 12:22 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 77494506	1490156022	1743		
Description Really white and bubbly--flushed 02/06/19				
Comment				
Requested By Customer		Assigned To Bill and Tommy		Completed By Bill and Tommy
Start Date 02/06/19 03:05 PM		Completed Date 02/06/19 03:05 PM		

Notes

Signature \_\_\_\_\_

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Big Sandy Water District  
**WORK ORDER 22630**

Account # 0003-02851-007  
Name Copley, Amber & David  
Address 17110 Arthur Rd Catlettsburg, KY 41129-8912  
Telephone (304) 412-2869 Job #

Order Date 2/11/2019  
Status Regular  
Scheduled 02/11/19 11:36 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 83948247	1471616656	8172		

Description A lot of air in lines. Flushed line 30mins @ 3gpm = 90gals.

Comment

Requested By Customer Assigned To Randy McDaniels Completed By Randy McDaniels

Start Date 02/11/19 08:42 AM Completed Date 02/11/19 08:42 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22677**

Account # [REDACTED]  
Name [REDACTED]  
Address [REDACTED]  
Telephone [REDACTED] Job # [REDACTED]

Order Date 2/18/2019  
Status Scheduled  
Scheduled 02/18/19 02:30 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 94974225	1487200272	771		
Description Water yellow. Flushed about 3,500 gallons.				
Comment				
Requested By customer		Assigned To Todd		Completed By Todd
Start Date 02/18/19 08:08 AM		Completed Date 02/18/19 08:08 AM		

Notes

Signature \_\_\_\_\_





Big Sandy Water District  
**WORK ORDER 22709**

Account # 0021-24874-001  
Name Adams, Doug & Gloria  
Address 411 Long Fork Rd Louisa, KY 41230-7936  
Telephone (606) 652-7568 Job #

Order Date 2/20/2019  
Status Scheduled  
Scheduled 02/20/19 09:25 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34722926	1484695746	2504		
Description	Water smells really bad - need to flush this line. Flushed out lines on Long Frk			
Comment	Flushed for 30mins.			
Requested By	customer	Assigned To	Rusty Austin	Completed By Rusty Austin
Start Date	02/20/19 08:06 AM			Completed Date 02/20/19 08:06 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22719**

Account # 0001-09801-003  
Name Cochran, George & Kimberly  
Address 7212 Pondview Ct Catlettsburg, KY 41129  
Telephone (606) 739-9170 Job #

Order Date 2/25/2019  
Status Scheduled  
Scheduled 02/25/19 08:51 AM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 34722949	1487940464	1226	0	

Description start @ 2:15pm - 3:38pm @ 25gpm

Comment

Requested By customer Assigned To Jimmy Blanton Completed By Jimmy Blanton

Start Date 02/25/19 09:19 AM Completed Date 02/25/19 09:20 AM

Notes

Signature \_\_\_\_\_

[REDACTED]

Big Sandy Water District  
**WORK ORDER 22734**

Account # 0001-06601-001

Name Russell, Elizabeth

Address 7106 Mocking Bird Trl Catlettsburg, KY 41129

Telephone (606) 739-0101

Job #

Order Date 2/27/2019

Status Scheduled

Scheduled 02/27/19 09:25 AM

Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
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WT 83948217	1471562480	2194	0	
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Description air in lines. Flushed 12:15 - 12:55 100gpm = 40minsx100gpm=4,000 gallons.

Comment

Requested By customer

Assigned To Jimmy Blanton

Completed By Jimmy Blanton

Start Date 02/27/19 11:22 AM

Completed Date 02/27/19 11:22 AM

Notes

Signature \_\_\_\_\_

SECRET

[REDACTED]

SECRET

Big Sandy Water District  
**WORK ORDER 22749**

Account # 0012-03249-001  
Name Webbs Chapel Church  
Address 8737 Highway 828 Louisa, KY 41230  
Telephone (606) 686-2671 Job #

Order Date 2/28/2019  
Status Scheduled  
Scheduled 02/28/19 02:58 PM  
Order Type Flushing

METER#	ERT/INTERNAL ID#	READING	LOCATOR TAG	READING IN / OUT
WT 45851947	1542562796	658		
Description	cust at end of line & water is not used often water has an odor			
Comment	Rattlesnake has us shut off. Not enough water to flush.			
Requested By	customer	Assigned To	Jimmy Blanton	Completed By Jimmy Blanton
Start Date	02/28/19 10:14 AM			Completed Date 02/28/19 10:14 AM

Notes

Signature \_\_\_\_\_

[REDACTED]



Big Sandy Water District  
18200 State Route 3  
Catlettsburg, KY 41129  
(606) 928-2075 or (800) 354-2933  
bdistrict@windstream.net

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

1. **Copies of our Water Loss is provided. Unaccounted Water Loss Percentage report is attached from January 1, 2018 thru January 1, 2019. We do not have all our information from the other utilities to complete the water loss forms for February and March, due to the different billing cycles and posting of the meter readings.**

**Bobbi Burton**

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	42,287,900	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>42,287,900</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	17,949,300	
8	Commercial	344,000	
9	Industrial	4,618,800	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	325,900	
13	<b>TOTAL WATER SALES</b>	<b>23,238,000</b>	55.0%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	11,500	
19	Fire Department	8,200	
20	Other <u>theft</u>	4,900	
21	<b>TOTAL OTHER WATER USED</b>	<b>24,600</b>	0.1%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	3,808,960	
26	Line Leaks	15,216,340	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>19,025,300</b>	45.0%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		45.0%

**BIG SANDY WATER LOSS REPORT**

**FOR JANUARY 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1569</b>	<b>\$34,144.40</b>	<b>\$20,640.31</b>	<b>\$24,070.87</b>
<b>A. Water Purchased</b>			<b>11,158,300</b>	<b>6,745,200</b>	<b>7,866,300</b>
<b>Sold</b>			<b>6,650,900</b>	<b>5,554,300</b>	<b>4,892,300</b>
<b>B. Difference - Loss</b>	<b>\$13,792.64</b>		<b>4,507,400</b>	<b>1,190,900</b>	<b>2,974,000</b>
<b>% Difference</b>			<b>40%</b>	<b>18%</b>	<b>38%</b>
<b>Water Sales</b>					
<b>Breaks</b>			<b>1,845,280</b>	<b>146,200</b>	<b>1,663,520</b>
<b>Hydrant Flushing</b>			<b>2,500</b>	<b>35,200</b>	<b>21,700</b>
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>			<b>4,500</b>		
<b>Other</b>				<b>610,100</b>	
<b>C. Total Gallons Accounted For Loss</b>			<b>1,852,280</b>	<b>791,500</b>	<b>1,685,220</b>
<b>Unaccounted For</b>			<b>2,655,120</b>	<b>399,400</b>	<b>1,288,780</b>
<b>(B - C)</b>					
<b>% Loss Unaccounted for</b>			<b>24%</b>	<b>6%</b>	<b>16%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>85,649</b>	<b>12,884</b>	<b>41,574</b>
<b>Gallons Loss (G.P.M.)</b>			<b>59</b>	<b>9</b>	<b>29</b>

BIG SANDY WATER LOSS REPORT					
FOR JANUARY 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1153	\$29,962.76	\$23,272.83	\$29,180.16
RATTLESNAKE	\$3.82	107	\$3,297.81	\$1,678.89	\$1,615.86
ASHLAND	\$2.19	1270	\$27,797.67	\$26,339.13	\$22,438.74
CANNONSBURG	\$4.42	649	\$25,738.54	\$2,997.20	\$8,207.50
<b>TOTAL</b>			\$86,796.78	\$54,288.05	\$61,442.26
A. Water Purchased			31,129,600	22,271,200	23,969,100
Sold			16,587,100	15,325,600	15,643,600
B. Difference - Loss	\$41,006.31		14,542,500	6,945,600	8,325,500
% Difference			47%	31%	35%
Water Sales					
Breaks			6,995,120	864,520	2,145,440
Hydrant Flushing			9,000	5,000	2,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use			3,700	3,750	
Fire Estimates					
Other Meter Testing			4,900	16,900	60,000
C. Total Gallons Accounted For			7,012,720	890,170	2,207,440
Loss					
Unaccounted For			7,529,780	6,055,430	6,118,060
(B - C)					
% Loss Unaccounted for			24%	27%	26%
= B - C					
A					
Gallons / Day Loss			242,896	195,336	197,357
Gallons Loss (G.P.M.)			169	136	137

**Leaks & Flushings**

<b>KRAC Leaks</b>		<b>Jan-18</b>	<b>KRAC Flushings</b>	
1/1/2018	Golden Gate - Les TS	28,800	1/11/2018	- Pigeon Roost Rd 7,000
	- Pinehurst busted meter bottom	28,800	1/12/2018	- Shepherd Br 2,000
1/2/2018	- N St Hwy 207 meter bottom	28,800	<b>TOTAL 9,000</b>	
1/3/2018	- Christy Ln - meter bottom	28,800		
	- Fryer Holw meter bottom	43,200		
	- Raquel Br - reg & meter bottom	36,000		
	- Roe Crk - reg	43,200		
	- Hwy 773 meter bottom 20gpm	86,400		
1/5/2018	- Spankem Br - reg & meter bottom	108,000		
1/7/2018	Lakewood - leaking meter Jim's TS	43,200		
1/8/2018	- Spankem Br - busted reg & meter bottom	151,200		
1/9/2018	- Mt Savage leak between valve & meter	1,000		
	- Quarry Br leak 20-25 gpm	288,000		
	Shawhan Ln - water leak	175,000		
	Panther Lane - water leak	230,400	<b>Fire Departments</b>	
	Trace Rd - meter bottom	28,800	1/29/2018	Big Sandy VFD 500
	Clay Hollow - regulator	21,600		Jan-18 East Fork VFD 0
1/10/2018	- Hwy 3399 Reg leaking (dripping)	64,800		Jan-18 Norton Br VFD 3,200
	Straight Crk - meter bottom (Jim's ts)	28,800	<b>TOTAL 3,700</b>	
1/11/2018	- St Hwy 773 meter bottom busted	43,200		
	- Trace Rd - busted meter bottom	64,800		
	- Nebo - service line pulled apart 20gpm	86,400		
	- Little Cat Frk Rd 4" line 4-5gpm	72,000		
1/12/2018	- Laramie Trl - 3" main 125gpm	180,000	<b>Theft of service</b>	
	- Raven Rock 3" line 30gpm	86,400	1/9/2018	- Quarry Branch 4,300
1/15/2018	- meter bottom leaking	43,200		14499 Trace Rd 600
1/17/2018	Callahan Rd - Old log house busted meter bottom - 15gpm	43,200	<b>TOTAL 4,900</b>	
1/18/2018	- Mt. Savage Ln - valve leaking	28,800		
1/18/2018	- Katy Br - valve leaking	28,800		
1/18/2018	- Brookwood - regulator leaking	43,200		
1/19/2018	- Wilson Crk - busted reg 20gpm day or 2	57,600		
	- Friendship - meter bottom & regulator.	28,800		
	- N St Hwy 207 - busted meter	43,200		
1/20/2018	Changed S-pipe Tom's TS ? (call out)	136,800		
1/21/2018	- Porter Rd meter bottom leaking 10gpm	57,600		

1/22/2018	- Hwy 1496 busted meter bottom 20gpm	57,600
1/22/2018	- Lakewood Vaillage Dr - meter bottom	90,720
1/21/2018	- Shop Br - service line came apart 20gpm-2wks	403,200
1/22/2018	- St Hwy 773 - started Sat - leaked 2 days 10gpm	28,800
	Hwy 707 - fixed leak replaced line from corp to setter	253,440
1/3-1/25	1" line 2pinholes 10gpm	316,800
1/25/2018	Mill Branch 3" line	280,000
1/26/2018	Fryer Hollow - leak - regulator Bill's Ts	360,000
	Little Cat & State Route 3 leak	201,600
1/29/2018	- busted meter bottom 2gpm	20,160
	Willow Tree - 3/4" line had 1/2" hole 30gpm	216,000
	- regulator leaking	14,400
1/23-1/30/18	- E US Hwy 60 7 days @ 50,000 per day	350,000
1/30/2018	Rt 60 fixed leak 15gpm	640,800
	Friendship Rd - fixed leak 15gpm	626,400
	Little Cat - Fixed leak 4" 10gpm	28,800
1/17 - 2/2	- Pinehurst 20gpm	432,000
1/22 - 2/6	- St Rt 3 leak 4-5gpm	79,200
1/24/2018	- Cedar Dr - valve & meter bottom	86,400
	<b>TOTAL</b>	<b>6,995,120</b>

**Louisa Leaks**

**Louisa Flushings**

1/1/2018	- Hwy 1690 busted meter bottom	43,200	1/31/2018	- Hwy 2565 flushed 20 mins.	2,500
1/2/2018	- Cherryville Rd busted reg & meter bottom	57,600			
	- S Hwy 3 busted reg & meter bottom 30gpm	86,400			
	- Hwy 23 reg leaking @ least 30gpm	86,400			
	- Left Frk Ltl Blaine - meter bottom	43,200			
1/3/2018	- Beasley Br - reg, meter bottom & check valve	25,000			
1/5/2018	- Redbud Sub - meter bottom 10gpm	28,800			
	Left Frk Little Blaine - meter bottom - Jim's TS	28,800			
1/8/2018	- Hwy 581 meter bottom split	28,800			
	Lowmansville PO - May Ln - meter bottom & reg	86,400			
	- Little Laurel Dr - valve & reg	43,200			
	- Hwy 32 - meter bottom	43,200			
	- Hay Br - meter bottom	43,200			
	Rock Crk Rd - busted meter bottom 5gpm	50,400			
1/9/2018	- S Hwy 3 meter bottom 10gpm	43,200			
	Torchlight - 3/4" line split 5gpm	50,400			
1/10/2018	- Hwy 581 meter bottom busted 20-25gpm	72,000			
	- Opal Ln - meter bottom & reg 10gpm	43,200			
1/11/2018	- Norris Fork - s-pipe leaking 3gpm	43,200			
1/12/2018	- Copperhead Rd - water leak 5gpm	50,400			
1/15/2018	Hwy 1690 b/4 Donithon - air release leaking	3,000			
1/19/2018	- US 23 changed reg & meter bottom	51,840			
1/22/2018	- Norris Fork - replace meter bottom	43,200			
1/23/2018	- Hwy 1690 - meter bottom 5days 30-35gpm	252,000			
1/24/2018	Highway 1690 meter bottom Bill's TS	43,200			
1/26/2018	Yellow Crk - Air release valve 35gpm	403,200			
1/30/2018	- ratesville Rd meter bottom 7gpm	30,240			
1/31/2018	- Hwy 32 - regulator leaking 1/2gpm	21,600			
	<b>TOTAL</b>	<b>1,845,280</b>			

**Fire Departments**

Jan-18	Cherryville VFD	no report
1/20/2018	Lowmansville VFD	4,500

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (0mil.000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	36,240,800	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>36,240,800</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	13,426,100	
8	Commercial	281,400	
9	Industrial	5,126,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>churches, schools, fire departments</u>	272,600	
13	<b>TOTAL WATER SALES</b>	<b>19,106,600</b>	52.7%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	72,800	
19	Fire Department	3,000	
20	Other _____		
21	<b>TOTAL OTHER WATER USED</b>	<b>75,800</b>	0.2%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	3,635,400	
26	Line Leaks	13,423,100	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>17,058,500</b>	47.1%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		<b>47.1%</b>



**BIG SANDY WATER LOSS REPORT**

**FOR FEBRUARY 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1153	\$33,605.94	\$29,962.76	\$22,564.95
<b>RATTLESNAKE</b>	<b>\$3.82</b>	106	\$1,812.97	\$3,297.81	\$1,743.07
<b>ASHLAND</b>	<b>\$2.19</b>	1269	\$19,674.96	\$27,797.67	\$18,128.82
<b>CANNONSBURG</b>	<b>\$4.42</b>	647	\$19,461.26	\$25,738.54	\$11,514.54
<b>TOTAL</b>		<b>3175</b>	<b>\$74,555.13</b>	<b>\$86,796.78</b>	<b>\$53,951.38</b>
<b>A. Water Purchased</b>			27,040,400	31,129,600	20,188,400
Sold			14,342,900	16,587,100	13,335,400
<b>B. Difference - Loss</b>		<b>\$35,363.01</b>	11,638,500	14,542,500	6,853,000
% Difference			43%	47%	34%
Water Sales					
Breaks			2,668,360	6,995,120	1,633,800
Hydrant Flushing			54,300	9,000	51,250
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			3,000	3,700	1,000
Other Meter Testing				4,900	10,000
<b>C. Total Gallons Accounted For Loss</b>			2,725,660	7,012,720	1,696,050
<b>(B - C)</b>			8,912,840	7,529,780	5,156,950
% Loss Unaccounted for			33%	24%	26%
= B - C					
A					
Gallons / Day Loss			318,315	242,896	184,177
Gallons Loss (G.P.M.)			221	169	127

BIG SANDY WATER LOSS REPORT					
FOR FEBRUARY 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
Louisa Water District	\$3.06	1567	\$28,153.23	\$34,144.40	\$17,495.55
A. Water Purchased			9,200,400	11,158,300	5,717,500
Sold			4,763,600	6,650,900	4,603,000
B. Difference - Loss	\$13,576.61		4,436,800	4,507,400	1,114,500
% Difference			48%	40%	19%
Water Sales					
Breaks			967,040	1,845,280	299,640
Hydrant Flushing			18,500	2,500	
Storage Tank Overflow					
Pump House Use					
Fire Department Use				4,500	
Other					
C. Total Gallons Accounted For			985,540	1,852,280	299,640
Unaccounted For					
(B - C)			3,451,260	2,655,120	814,860
% Loss Unaccounted for			38%	24%	14%
= B - C					
A					
Gallons / Day Loss			123,259	85,649	29,102
Gallons Loss (G.P.M.)			86	59	20

**Leaks and Flushings  
Feb-18**

<b>KRAC Leaks</b>		<b>KRAC Flushing</b>	
2/2/2018 Pinehurst - water leak	35,000	2/6/2018 Mouth of Bolts Frk	8,000
2/2/2018 - Alley Br - regulator 4gpm	5,760	2/5/2018 Long Branch	10,000
2/5/2018 Long Branch - 3" line	30,000	2/10/2018 - Hwy 1496	3,000
1/22-2/6 - St Rt. 3 leak 4-5gpm	115,200	2/14/2018 Wilson Creek	5,000
1/23-2/8 - St Rt 854 water leak 5gpm	115,200	Cribbs Hill	5,300
1/8-2/9 Jordan Ln - 2" leak 10gpm	561,600	Spankem Branch	2,000
2/10/2018 - Hwy 1395- 3/4" 45gpm	64,800	2/21/2018 - Blue Ribbon 10mins.	2,000
2/13/2018 Little Cat - 4" 45 elbow 15gpm	43,200	- Bear Crk - hydrant	2,000
2/14/2018 Williams Crk - leak @ new bridge	216,000	2/21/2018 - Mary Ct (Les)	2,000
2/17/2018 Linda Circle - water leak	460,800	2/22/2018 - Tigger Br (Les)	2,000
1/16/-2/20 - Bear Crk/Blue Ribbon 8" coupling	180,800	2/26/2018 - Spankem Br	2,000
2/21/2018 Leslie Rd - leak @ new bridge	30,000	2/23/2018 - Spankem Br	10,000
Silver Run - Leak 4" bell 15gpm	108,000	2/26/2018 - Big Run Trace	1,000
2/22/2018 - Durbin Rd - reg leaking 5gpm	151,200	Total	54,300
2/23/2018 - Alley Br - 3" line split lost	30,000		
2/25/2018 Spankem Br - water leak	35,000		
2/26/2018 - Indian Trl - Almond Rd 3" pulled apart 10gpm	360,000	<b>Fire Departments</b>	
2/26/2018 - St Rt 3 3/4" service line 10gpm	100,800	2/19/2018 Big Sandy VFD	3,000
2/23/2018 - leak	25,000	East Fork VFD	No Report
<b>Total</b>	<b>2,668,360</b>	Norton Br - VFD	0
		<b>Total</b>	<b>3,000</b>

**Louisa Leaks**

2/1/2018	- Left Fork Morgans Crk - regulator 30gpm	43,200
2/6/2018	- Left Fork Morgans Crk - valve leaking	3,000
2/7/2018	- Donithon Rd - regulator leaking	28,800
9/26-2/14	- Workman Holw 2" 90 elbow split 5-10gpm	249,120
1/23-2/15	- Hwy 1690 - valve on setter (meter dead)	5,000
2/17/2018	Morgans Crk - water leak 3" - 70gpm	403,200
2/20/2018	Left Frk Morgans Crk - replaced meter bottom & regulator.	8,000
2/22/2018	Law Co Road Dept - Ash Br 3" water leak 50gpm	72,000
2/23/2018	Donithon - leak @ slip 6" line	54,720
2/22/2018	Rt 3 past Rt 644 6" line split	60,000
2/25/2018	Morgans Crk - leak	40,000
	<b>Total</b>	<b>967,040</b>

**Louisa Flushing**

2/10/2018	- Hwy 2565 20minsx150gpm	3,000
2/14/2018	- Topaz Ln	2,000
2/20/2018	- Raven Rock 3" BO	3,000
	Raven Rock 2" BO	4,500
2/23/2018	- Lf Frk Mrgs Crk BO 20mins.	2,000
2/28/2018	- Raven Rock 30 mins.	3,000
2/23/2018	Workman Holw -	1,000
	<b>Total</b>	<b>18,500</b>

**Fire Departments**

February	Cherryville	No Report
	Lowmansville VFD	0

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	37,780,900	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>37,780,900</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	15,071,000	
8	Commercial	320,600	
9	Industrial	5,417,200	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	371,000	
13	<b>TOTAL WATER SALES</b>	<b>21,179,800</b>	56.1%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	21,500	
19	Fire Department	13,100	
20	Other <u>Meter testing, dead meters</u>	106,730	
21	<b>TOTAL OTHER WATER USED</b>	<b>143,330</b>	0.4%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	2,010,000	
26	Line Leaks	14,449,770	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>16,459,770</b>	43.6%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		<b>43.6%</b>

BIG SANDY WATER LOSS REPORT					
FOR MARCH 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1156	\$36,032.52	\$33,605.94	\$24,954.81
RATTLESNAKE	\$3.82	106	\$2,277.10	\$1,812.97	\$1,690.35
ASHLAND	\$2.19	1272	\$20,456.79	\$19,674.96	\$17,228.73
CANNONSBURG	\$4.42	647	\$19,958.95	\$19,461.26	\$19,887.56
<b>TOTAL</b>		<b>3181</b>	<b>\$78,725.36</b>	<b>\$74,555.13</b>	<b>\$63,575.16</b>
A. Water Purchased			28,583,100	27,040,400	22,553,000
Sold			15,934,500	14,342,900	15,978,100
B. Difference - Loss	\$35,092.49		12,648,600	11,638,500	6,574,900
% Difference			45%	43%	29%
Water Sales					26,000
Breaks			1,200,400	2,668,360	1,997,480
Hydrant Flushing			7,500	54,300	15,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			9,400	3,000	0
Other Meter Testing			54,010		10,000
C. Total Gallons Accounted For Loss			1,271,300	2,725,660	2,048,480
(B - C)			11,377,300	8,912,840	4,526,420
% Loss Unaccounted for			40%	33%	20%
= B - C					
A					
Gallons / Day Loss			367,010	318,315	146,013
Gallons Loss (G.P.M.)			255	221	101

**BIG SANDY WATER LOSS REPORT  
FOR MARCH 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1567</b>	<b>\$28,145.27</b>	<b>\$28,153.23</b>	<b>\$19,887.56</b>
<b>A. Water Purchased</b>			<b>9,197,800</b>	<b>9,200,400</b>	<b>6,499,200</b>
<b>Sold</b>			<b>5,245,300</b>	<b>4,763,600</b>	<b>5,354,200</b>
<b>B. Difference - Loss</b>	<b>\$12,094.65</b>		<b>3,952,500</b>	<b>4,436,800</b>	<b>1,145,000</b>
<b>% Difference</b>			<b>44%</b>	<b>48%</b>	<b>18%</b>
<b>Water Sales</b>					<b>9,400</b>
<b>Breaks</b>			<b>809,600</b>	<b>967,040</b>	<b>453,500</b>
<b>Hydrant Flushing</b>			<b>14,000</b>	<b>18,500</b>	
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use</b>			<b>3,700</b>		
<b>Other</b>			<b>52,720</b>		
<b>C. Total Gallons Accounted For Loss</b>			<b>880,020</b>	<b>985,540</b>	<b>462,900</b>
<b>Unaccounted For</b>					
<b>(B - C)</b>			<b>3,072,480</b>	<b>3,451,260</b>	<b>682,100</b>
<b>% Loss Unaccounted for</b>			<b>34%</b>	<b>38%</b>	<b>10%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>99,112</b>	<b>123,259</b>	<b>22,003</b>
<b>Gallons Loss (G.P.M.)</b>			<b>69</b>	<b>86</b>	<b>15</b>

**Mar-18  
Leaks and Flushings**

**KRAC Leaks**

3/6/2018	- St Rt 3 3" coupling pulled apart	60,000
	- Shepherds Br - 5gpm reg leaking	36,000
	Brushy Fork Rd 3" line pulled in slip	72,000
3/7/2018	- E US Hwy 60 - leak 10gpm	86,400
	Blaine Creek Rd - 3" line 10-15gpm	108,000
	Nebo Road - 6" line leak 150gpm	216,000
3/8/2018	- regulator leaking 10gpm	28,800
3/9/2018	- St Rt 773 - pinhole 1" 5gpm (7 months)	50,400
	- Roe Crk - leak on service line	10,000
	Katy Br - 1" line leaking	50,000
3/15/2018	Glenwood Rd 3" line pulled apart	60,000
3/16/2018	Katy Br - 1" line leaking	230,400
3/20-	- Hwy 3399 small leak going into meter	8,000
3/19/2018	Silver Run & Whites Crk 8" line 8" bell pulled apart	100,000
3/22/2018	Road Dept hit 4" line on Silver Run	60,000
3/28/2018	- Hwy 60 meter bottom dripping	10,000
3/30/2018	- regulator leaking	14,400

TOTAL 1,200,400

**KRAC Flushings**

3/6/2018	- Brooks Ln	1,000
3/7/2018	Nebo Rd	2,000
3/9/2018	Knotty Popular	1,000
3/22/2018	- Whites Crk	3,500
	TOTAL	7,500

**Fire Departments**

Mar-18	Big Sandy VFD	1,000
	East Fork VFD	No report
Mar-18	Norton Br VFD	8,400
	TOTAL	9,400

**Dead or Theft of Service**

Mar-18	theft of service	41,380
	theft of service	12,630
	TOTAL	54,010



Louisa Leaks		Louisa Flushings	
3/5/2018	- McCracken Holw - reg leaking 15gpm	86,400	
3/13/2018	Leak on Rt 3 6" coupling 30gpm	130,000	
	Leak on Rt 3 past Rt 644 6" bell pulled apart 30gpm	172,800	
3/14/2018	Mouth of Donithon Rd - 6" line 6" wrap leaking	140,000	
3/15/2018	- Patrick Br Rd - 3/4" line pulled apart @ coupling 35gpm	50,400	
3/19/2018	Wilber Rd - service line	20,000	
3/29/2018	Donithon - 6" line split	115,000	
3/31/2018	Fullers Ridge - 3" line	95,000	
		TOTAL	809,600

**Fire Departments**

Cherryville VFD	No Report
Mar-18 Lowmansville VFD	3,700
	TOTAL 3,700

**Dead or Theft of Service**

Mar-18	- dead meter	5,400
	theft of service	12,820
	theft of service	34,500
	TOTAL	52,720

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	32,019,100	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>32,019,100</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	13,984,400	
8	Commercial	343,800	
9	Industrial	3,400,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	543,700	
13	<b>TOTAL WATER SALES</b>	<b>18,272,300</b>	57.1%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	11,200	
19	Fire Department		
20	Other <u>dead meters/testing meters</u>		
21	<b>TOTAL OTHER WATER USED</b>	<b>11,200</b>	0.0%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	3,172,180	
26	Line Leaks	10,563,420	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>13,735,600</b>	42.9%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		<b>42.9%</b>

BIG SANDY WATER LOSS REPORT					
FOR APRIL 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1152	\$26,789.54	\$36,032.52	\$24,168.39
RATTLESNAKE	\$3.82	107	\$1,609.75	\$2,277.10	\$1,482.16
ASHLAND	\$2.19	1278	\$19,050.81	\$20,456.79	\$23,842.53
CANNONSBURG	\$4.42	649	\$17,344.96	\$19,958.95	\$3,665.95
<b>TOTAL</b>		<b>3186</b>	<b>\$64,795.06</b>	<b>\$78,725.36</b>	<b>\$71,588.19</b>
A. Water Purchased			23,550,300	28,583,100	21,582,200
Sold			13,406,900	15,934,500	14,212,400
B. Difference - Loss		\$27,885.96	10,143,400	12,648,600	7,369,800
% Difference			43%	45%	34%
Water Sales					3,500
Breaks			2,060,320	1,200,400	1,977,000
Hydrant Flushing			4,500	7,500	11,900
Storage Tank Overflow					
Pump House Use					
Fire Department Use				9,400	1,000
Fire Estimates					
Other Meter Testing				54,010	20,000
C. Total Gallons Accounted For Loss			2,064,820	1,271,300	2,013,400
(B - C)			8,078,580	11,377,300	5,356,400
% Loss Unaccounted for			35%	40%	25%
= B - C					
A					
Gallons / Day Loss			269,286	367,010	178,547
Gallons Loss (G.P.M.)			187	255	124

**BIG SANDY WATER LOSS REPORT**

**FOR APRIL 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1563</b>	<b>\$25,914.52</b>	<b>\$28,145.27</b>	<b>\$18,429.16</b>
<b>A. Water Purchased</b>			<b>8,468,800</b>	<b>9,197,800</b>	<b>6,022,600</b>
<b>Sold</b>			<b>4,865,400</b>	<b>5,245,300</b>	<b>4,751,400</b>
<b>B. Difference - Loss</b>	<b>\$11,026.40</b>		<b>3,603,400</b>	<b>3,952,500</b>	<b>1,271,200</b>
<b>% Difference</b>			<b>43%</b>	<b>44%</b>	<b>21%</b>
<b>Water Sales</b>					<b>3,500</b>
<b>Breaks</b>			<b>1,111,860</b>	<b>809,600</b>	<b>407,300</b>
<b>Hydrant Flushing</b>			<b>6,700</b>	<b>14,000</b>	<b>12,000</b>
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>				<b>3,700</b>	<b>500</b>
<b>Other</b>				<b>52,720</b>	
<b>C. Total Gallons Accounted For Loss</b>			<b>1,118,560</b>	<b>880,020</b>	<b>423,300</b>
<b>(B - C)</b>			<b>2,484,840</b>	<b>3,072,480</b>	<b>847,900</b>
<b>% Loss Unaccounted for</b>			<b>30%</b>	<b>34%</b>	<b>14%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>82,828</b>	<b>99,112</b>	<b>28,263</b>
<b>Gallons Loss (G.P.M.)</b>			<b>58</b>	<b>69</b>	<b>20</b>

**Leaks & Flushing  
Apr-18**

<b>KRAC Leaks</b>		<b>Flushings</b>	
4/2/2018	Whites Crk 3" line washed out	576,000	4/3/2018 Pinehurst 1,500
	Glenwood Br Rd - 3" line pulled apart @ slip 30gpm	43,200	4/16/2018 Christy Ln 20mins 3,000
4/3/2018	Spankem Br 3" line pulled apart 30gpm	50,000	4,500
	Rt 3 3" line pulled apart 80gpm	115,200	
	Jacks Fork - tightened regulator leaking	4,320	
4/6/2018	Friendship - saddle busted 15gpm	21,600	<b>Fire Departments</b>
4/9/2018	US Rt 23 3/4" line leaking 5gpm	26,000	Apr-18 Big Sandy VFD 0
4/10/2018	Gillum Br	604,800	Apr-18 East Fork VFD No Report
4/11/2018	Lakewood 1 1/2 service line 15gpm @ 7days	151,200	Apr-18 Norton Branch VFD No Report
4/13/2018	Christy Ln - leak	43,200	
	Cunningham Hill - 2 leaks	14,400	
4/16/2018	Nebo Road - slip in road - 6" mainline	216,000	
4/19/2018	Stinson Rd leak tightened all fittings	28,800	
4/21/2018	Willow Tree - 3/4" service line 15gpm	43,200	
4/23/2018	Blaine Creek leak 4" bell split in slip 35gpm	50,400	
4/24/2018	Blaine Crk - leak in corp stop	57,600	
4/30/2018	Highway 2033 - water leak	14,400	
	<b>TOTAL</b>	<b>2,060,320</b>	

**Louisa Leaks**

4/2/2018 Torchlight Rd - S pipe leaking	8,640
4/5/2018 - Gem Ln hit 1" service line 25gpm	36,000
4/10/2018 Law Co Rd Dep - hit 3" waterline (Hickman)	5,000
4/11/2018 Gem Ln - service line came apart	8,000
4/13/2018 Brushy Crk	648,000
4/18/2018 - Meades Branch	5,900
4/19/2018 : - Hwy 1690 meter bottom leaking 1gpm	25,920
- Horse Picture busted meter bottom & reg	259,200
4/22/2018 Timbertake Dr - 3" leak 20gpm 4hrs.	115,200
<b>TOTAL</b>	<b>1,111,860</b>

**Flushings**

4/6/2018 Cresley Br flushed	2,000
4/11/2018 - Cresley Br 125x10mins	1,250
- Yellowcreek 75x46mins	3,450
<b>TOTAL</b>	<b>6,700</b>

**Fire Departments**

Apr-18 Cherryville VFD	No Report
Apr-18 Lowmansville VFD	0

**Theft of Service/ Dead Meters**

4/25/2018 11141 S Hwy 3 straight pipe	
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# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility: Big Sandy Water District

For the Month of: May Year: 2018

LINE #	ITEM	GALLONS (Omit 000's)
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>	
2	Water Produced	
3	Water Purchased	33,353,000
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>33,353,000</b>
5		
6	<b>WATER SALES</b>	
7	Residential	18,635,400
8	Commercial	433,500
9	Industrial	2,201,600
10	Bulk Loading Stations	
11	Wholesale	
12	Other Sales <u>schools, churches, fire departments</u>	548,300
13	<b>TOTAL WATER SALES</b>	<b>21,818,800</b> 65.4%
14		
15	<b>OTHER WATER USED</b>	
16	Utility and/or Water Treatment Plant	
17	Wastewater Plant	
18	System Flushing	41,000
19	Fire Department	10,800
20	Other <u>Dead meters</u>	7,900
21	<b>TOTAL OTHER WATER USED</b>	<b>59,700</b> 0.2%
22		
23	<b>WATER LOSS</b>	
24	Tank Overflows	
25	Line Breaks	3,126,400
26	Line Leaks	8,348,100
27	Other _____	
28	<b>TOTAL LINE LOSS</b>	<b>11,474,500</b> 34.4%
29		
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4	
31		
32	<b>WATER LOSS PERCENTAGE</b>	
33	Unaccounted-For Water (Line 28 divided by Line 4)	<b>34.4%</b>

**BIG SANDY WATER LOSS REPORT**

**FOR MAY 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1154	\$26,766.33	\$26,789.54	\$24,475.41
<b>RATTLESNAKE</b>	<b>\$3.82</b>	105	\$2,172.43	\$1,609.75	\$1,663.61
<b>ASHLAND</b>	<b>\$2.19</b>	1280	\$19,572.03	\$19,050.81	\$19,598.31
<b>CANNONSBURG</b>	<b>\$4.42</b>	648	\$21,040.53	\$17,344.96	\$16,667.82
<b>TOTAL</b>			\$69,551.32	\$64,795.06	\$62,405.15
A. Water Purchased			24,762,600	23,550,300	22,753,700
Sold			15,838,300	13,406,900	16,833,900
B. Difference - Loss	<b>\$25,117.85</b>		8,924,300	10,143,400	5,919,800
% Difference			36%	43%	26%
Water Sales					
Breaks			897,200	2,060,320	2,365,760
Hydrant Flushing			12,000	4,500	32,100
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			10,800		15,500
Other Meter Testing			5,000		30,000
C. Total Gallons Accounted For Loss			925,000	2,064,820	2,443,360
(B - C)			7,999,300	8,078,580	3,476,440
% Loss Unaccounted for			33%	35%	15%
= B - C					
A					
Gallons / Day Loss			258,042	269,286	112,143
Gallons Loss (G.P.M.)			179	187	78



BIG SANDY WATER LOSS REPORT					
FOR MAY 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
Louisa Water District	\$3.06	1578	\$26,286.62	\$25,914.52	\$24,419.11
A. Water Purchased			8,590,400	8,468,800	7,980,100
Sold			6,078,800	4,865,400	6,057,800
B. Difference - Loss	\$7,685.50		2,511,600	3,603,400	1,922,300
% Difference			30%	43%	24%
Water Sales					
Breaks			1,278,420	1,111,860	760,640
Hydrant Flushing			29,000	6,700	87,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use					
Fire Estimates					
Other			2,900		
C. Total Gallons Accounted For Loss			1,310,320	1,118,560	847,640
(B - C)			1,201,280	2,484,840	1,074,660
% Loss Unaccounted for			14%	30%	13%
= B - C					
A					
Gallons / Day Loss			38,751	82,828	34,666
Gallons Loss (G.P.M.)			27	58	24

**Leaks and Flushings**

<b>KRAC Leaks</b>		<b>May-18</b>	<b>KRAC Flushings</b>		
5/1/2018	Bolts Fork	25,000	5/8/2018	Fannin Cemetary Rd	4,000
5/4/2018	Zelda Loop - contractor hit 3" line	50,000	5/18/2018	Long Branch	6,000
5/7/2018	Nebo - 6" line @ slip	125,000	5/25/2018	Brooks Road	2,000
5/8/2018	-cracked meter bottom	14,400		<b>TOTAL</b>	<b>12,000</b>
	- Fannin Cemetary 3" valve	5,000			
5/9/2018	-Panther 3/4" line split 15gpm	172,800	<b>Fire Departments</b>		
	- Roe Crk air release split - leaking 10gpm	115,200	5/3/2018	Big Sandy VFD	4,000
5/11-5/15	Bear Creek Apts - leak 1" service line 20gpm	115,200	May-18	East Fork VFD	No report
5/14/2018	Nebo - 6" main	125,000	May-18	Norton Br VFD	6,800
5/16/2018	- Cherrywood Dr - 1" service line leak	15,000		<b>TOTAL</b>	<b>10,800</b>
5/24/2018	- 4-mile service line repaired	5,000			
5/29/2018	Geiger Ln - Regulator leaking	57,600	<b>Theft or Dead Meters</b>		
5/31/2018	- 4 mile 3/4" service line 50gpm	72,000	5/18/2018		5,000
	<b>TOTAL</b>	<b>897,200</b>		<b>TOTAL</b>	<b>5,000</b>

<b>Louisa Leaks</b>			<b>Louisa Flushings</b>		
5/2/2018	Swan Br - s-pipe leaking	9,000	5/7/2018	- Cresley Br	3,600
5/7/2018	Cedgap-Hwy 32 - 6" line creek crossing	100,000	5/9/2018	- Meades Br	4,500
5/8/2018	- Sourwood - regulator leaking 10gpm	28,800		- Thompson Frk	4,900
5/10/2018	- Rt 3 3/4" line split 10gpm	129,600	5/15/2018	- Long Br	6,000
3/28-5/14	- See Br - valve leaking	175,680	5/25/2018	- Nats Crk	5,000
4/13-5/16	- Timberlake 3" bell leaking 5gpm	129,600		Blow off @ the end of 1690	5,000
5/15/2018	- Brookside Rd meter bottom 1gpm	20,160		<b>TOTAL</b>	<b>29,000</b>
	- Meades Br	5,900			
5/17/2018	- Sourwood - meter bottom leaking 2gpm	46,080	<b>Fire Departments</b>		
5/23/2016	- & Rt 1690 3" line leaking 20gpm	633,600	May-18	Cherryville VFD	No Report
	<b>TOTAL</b>	<b>1,278,420</b>	May-18	Lowmansville VFD	0

**Theft or Dead Meters**

5/3/2018	2,900
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emailed 8/17/18  
PSC

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	34,384,900	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>34,384,900</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	17,728,600	
8	Commercial	423,100	
9	Industrial	2,106,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	389,000	
13	<b>TOTAL WATER SALES</b>	<b>20,647,100</b>	60.0%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	27,750	
19	Fire Department	6,000	
20	Other <u>Dead meter / meter testing</u>	7,100	
21	<b>TOTAL OTHER WATER USED</b>	<b>40,850</b>	0.1%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	1,697,760	
26	Line Leaks	11,999,190	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>13,696,950</b>	39.8%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)	<b>39.8%</b>	

<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR JUNE 2018</b>					
		<b># OF</b>	<b>DOLLAR</b>	<b>LAST</b>	<b>LAST</b>
		<b>CUSTOMERS</b>	<b>AMOUNT</b>	<b>MONTH</b>	<b>YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1568	\$30,046.40	\$26,766.33	\$29,983.92
<b>RATTLESNAKE</b>	<b>\$3.82</b>	105	\$1,900.07	\$2,172.43	\$1,823.67
<b>ASHLAND</b>	<b>\$2.19</b>	1279	\$18,768.30	\$19,572.03	\$20,448.03
<b>CANNONSBURG</b>	<b>\$4.42</b>	654	\$21,774.25	\$21,040.53	\$18,108.74
<b>TOTAL</b>		<b>3606</b>	<b>\$72,513.11</b>	<b>\$69,551.32</b>	<b>\$70,364.36</b>
<b>A. Water Purchased</b>			25,787,600	24,762,600	25,669,800
<b>Sold</b>			14,471,800	15,838,300	20,372,700
<b>B. Difference - Loss</b>		\$32,457.08	11,315,800	8,924,300	5,297,100
<b>% Difference</b>			44%	36%	21%
<b>Water Sales</b>					
<b>Breaks</b>			1,368,000	897,200	1,753,760
<b>Hydrant Flushing</b>			17,750	12,000	7,500
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>			6,000	10,800	
<b>Other Meter Testing</b>			3,200	5,000	15,000
<b>C. Total Gallons Accounted For Loss</b>			1,394,950	925,000	1,776,260
<b>(B - C)</b>			9,920,850	7,999,300	3,520,840
<b>% Loss Unaccounted for</b>			39%	33%	14%
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			330,695	258,042	117,361
<b>Gallons Loss (G.P.M.)</b>			230	179	81

BIG SANDY WATER LOSS REPORT					
FOR JUNE 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
Louisa Water District	\$3.06	1579	\$26,307.73	\$26,286.62	\$21,660.83
A. Water Purchased			8,597,300	8,590,400	7,078,700
Sold			6,175,300	6,078,800	6,511,800
B. Difference - Loss	\$7,411.32		2,422,000	2,511,600	566,900
% Difference			29%	30%	8%
Water Sales					
Breaks			329,760	1,278,420	740,800
Hydrant Flushing			10,000	29,000	4,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use					500
Fire Estimates					
Other			3,900	2,900	
C. Total Gallons Accounted For Loss			343,660	1,310,320	745,300
(B - C)			2,078,340	1,201,280	0
% Loss Unaccounted for			25%	14%	
= B - C					
A					
Gallons / Day Loss			69,278	38,751	0
Gallons Loss (G.P.M.)			48	27	0

**Jun-18  
Leaks & Flushings**

<b>KRAC Leaks</b>		<b>Flushings</b>	
6/4/2018	Bush Ln - 1" PVC line busted 100gpm	80,000	6/6/2018 Pigeon Roost 2,000
6/6/2018	Pigeon Roost - 2" blow off 250gpm	60,000	6/6/2018 Brooks Road 3,000
5/2-6/7	Bowling - Rt 3 3/4" service line 7gpm	302,400	6/5/2018 Jordan Rd 2,500
6/7/2018	Trace Rd 3/4" line 25gpm	72,000	6/14/2018 Blaine Creek end of Rt 23 5,000
6/11/2018	Big Run Trace - 3/4" line Baptist Church 20gpm	160,000	6/28/2018 - St Rt 3 3,000
	Bear Creek - 1" line split 3	60,000	- Williams Creek 2,250
6/18/2018	- Jacks Fork usage difference	400	<b>TOTAL</b> 17,750
6/15/2018	- State Rt 3 meter bottom leaking 5gpm	100,800	
	- Long Br - regulator leaking 3gpm	64,800	<b>Fire Departments</b>
	Carson Ln 3/4" service line pin hole 5gpm	100,800	6/25/2018 Big Sandy VFD 2,000
	Chadwicks Crk - 1" line road dept hit	50,000	East Fork VFD no report
6/18/2015	- St Rt. 3 leaks in 1" pipe 30gpm	129,600	6/7 & 6/25 Norton Branch VFD 4,000
6/22/2018	Highway 773 just past Katy Br 20gpm	115,200	<b>TOTAL</b> 6,000
6/27/2018	- Whites Crk 3/4" line broke @ corp	72,000	<b>Theft of Service / Dead Meters</b>
	<b>TOTAL</b>	<b>1,368,000</b>	3,200

<b>Louisa Leaks</b>		<b>Flushings</b>	
6/5/2018	Blevins Frk 6" saddle broke 75gpm	108,000	6/25/2018 Highway 1690 2,000
6/4/2018	- Gem Ln s-pipe leaking 3wks. 2gpm	86,400	Blow off @ Chapman 1,000
6/18/2018	- Gem Ln - s-pipe leaking 8gpm	11,520	Flatbottom Dr 1,000
6/19/2018	- Dry Meadow - reg leaking 2gpm	51,840	Nats Creek 4,000
6/21/2018	Cedgap - 6" Saddle broke 50gpm	72,000	US 23 Horse Picture 2,000
	<b>TOTAL</b>	<b>329,760</b>	<b>TOTAL</b> 10,000

<b>Fire Departments</b>	
Cherryville VFD	no report
Lowmansville VFD	0

<b>Theft of Service / Dead Meters</b>	
	3,900

e-mailed  
PSC 9/20/10

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	33,094,200	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>33,094,200</b>	
5			
6	<b>WATER SALES</b>		
7	Residential	16,872,900	
8	Commercial	438,500	
9	Industrial	3,328,900	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, fire departments, churches</u>	336,900	
13	<b>TOTAL WATER SALES</b>	<b>20,977,200</b>	63.4%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	38,000	
19	Fire Department	2,500	
20	Other <u>Meter testing</u>	27,300	
21	<b>TOTAL OTHER WATER USED</b>	<b>67,800</b>	0.2%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	4,680,300	
26	Line Leaks	7,368,900	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>12,049,200</b>	36.4%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		<b>36.4%</b>

BIG SANDY WATER LOSS REPORT					
FOR JULY 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1151	\$28,828.26	\$30,046.40	\$28,638.54
RATTLESNAKE	\$3.82	107	\$2,169.76	\$1,900.07	\$1,537.17
ASHLAND	\$2.19	1274	\$19,039.86	\$18,768.30	\$19,359.60
CANNONSBURG	\$4.42	651	\$22,926.10	\$21,774.25	\$13,260.07
<b>TOTAL</b>		<b>3183</b>	<b>\$72,963.98</b>	<b>\$72,513.11</b>	<b>\$62,795.38</b>
A. Water Purchased			25,754,100	25,787,600	23,474,800
Sold			15,178,900	14,471,800	15,041,700
B. Difference - Loss		\$31,110.46	10,575,200	11,315,800	8,433,100
% Difference			41%	44%	36%
Water Sales					
Breaks			3,973,040	1,368,000	1,050,380
Hydrant Flushing			17,500	17,750	28,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates				6,000	14,000
Other Meter Testing			24,800	3,200	5,000
C. Total Gallons Accounted For Loss			4,015,340	1,394,950	1,097,380
(B - C)			6,559,860	9,920,850	7,335,720
% Loss Unaccounted for			26%	39%	31%
= B - C					
A					
Gallons / Day Loss			211,608	330,695	236,636
Gallons Loss (G.P.M.)			147	230	164



BIG SANDY WATER LOSS REPORT					
FOR JULY 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
Louisa Water District	\$3.06	1583	\$22,460.71	\$26,307.73	\$25,169.42
A. Water Purchased			7,340,100	8,597,300	8,225,300
Sold			5,798,300	6,175,300	5,055,600
B. Difference - Loss	\$4,717.91		1,541,800	2,422,000	3,169,700
% Difference			21%	29%	39%
Water Sales					
Breaks			707,260	329,760	737,880
Hydrant Flushing			20,500	10,000	11,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			2,500		
Other			2,500	3,900	
C. Total Gallons Accounted For Loss			732,760	343,660	748,880
(B - C)			809,040	2,078,340	2,420,820
% Loss Unaccounted for			11%	25%	29%
= B - C					
A					
Gallons / Day Loss			26,098	69,278	78,090
Gallons Loss (G.P.M.)			18	48	54

**Leaks & Flushings  
Jul-18**

<b>KRAC Leaks</b>			<b>Flushings</b>		
7/2/2018	- Glancy Frk busted meter bottom	72,000	7/20/2018	- Ross Rd	5,000
7/3/2018	- Hwy 773 -	25,800	7/23/2018	- Rt Frk Big Cat	2,000
7/4/2018	- service line leak	43,200	7/24/2018	- Highway 1	3,000
7/5/2018	- E US Hwy 60 - small leak	36,000	7/26/2018	- Tigger Br 30mins.	3,000
7/6-7/9	Trace Rd - leak under road 4gpm	151,200	7/28/2018	- Bowling Dr 1hr. 3" line	4,500
	- Brushy Frk Rd busted meter bottom & reg	25,000		<b>TOTAL</b>	<b>17,500</b>
7/9/2018	- Rt 60 - leak 4gpm	51,840			
7/10/2018	- E US Hwy 60 water leak 90gpm for 16hrs.	86,400	<b>Fire Departments</b>		
	Silver Run - busted meter bottom	360,000	July	Big Sandy VFD	0
	- Dog Frk Laurel - small leak	1,000		East Fork VFD	No report
7/11/2018	- Kendall Ln - meter bottom 5gpm	79,200		Norton Br VFD	No report
7/11/2018	- Long Br water leak	126,720			
7/12/2018	Valve changed out Rush Hill	35,000			
7/13/2018	- Whites Crk - 3/4" line 10gpm	100,800	<b>Theft of Services / Dead Meters</b>		
7/16/2018	- Blaine Crk 3/4" service line 15gpm - 2 leaks	345,600		- Hwy 1496	7,700
7/20/2018	- S Hwy 207 - leak at meter	288,000		Stapleton Court Lot #4	13,800
	- Willow Tree - leak	100,800			3,300
6/12-7/20	- Bolts Frk between meter & crk 4-5gpm	144,000		<b>TOTAL</b>	<b>24,800</b>
	- Rt 854 3/4" line split 20gpm	432,000			
7/22/2018	- Route #1 4" line split	120,000			
7/23/2018	- Cub Ln 3/4" line split 15gpm	64,800			
7/27/2018	Shepherds Br & Rt 3 - 4" lines	55,000			
7/25/2018	Bear Crk - Miles pinhole 1" 5gpm	108,000			
7/26/2018	- Long Br - small leak	211,680			
7/29/2018	- Rt 854 3/4" line split 25gpm	108,000			
7/30/2018	- 8" line split 30gpm	576,000			
	<b>TOTAL</b>	<b>3,973,040</b>			

Louisa Leaks		Flushings		
7/2/2018	- Dry Ridge	5,100	7/16/2018 - Thompson Frk	4,500
7/3/2018	Pt. Section & Rt 3 6" line break	150,000	- Hwy 1690	3,500
	Highway 644 - S-pipe leaking 2gpm	6,000	Nats Crk	3,500
	Gem Ln - meter bottom leaking 2gpm	6,000	7/17/2018 - Morgans Crk	3,000
7/11/2018	- Rt Fork Georges Crk s-pipe 4gpm	63,360	- Ash Br	3,000
7/13/2018	Cedgap - creek crossing blew out 6" split	300,000	7/18/2018 - Lake Rdg	1,000
7/19/2018	- Garden Br - s-pipe leaking 2-5gpm	136,800	7/20/2018 - Clay Ln 20 mins.	2,000
7/30/2018	- Fuller Ridge Rd - meter bottom leaking	25,000		<b>TOTAL</b>
7/28/2018	- Morgans Crk - S-pipe leaking	15,000		<b>20,500</b>
	<b>TOTAL</b>	<b>707,260</b>		

**Fire Departments**

July	Cherryville VFD	No report
18-Jul	Lowmansville VFD	2,500

**Theft of Services / Dead Meter**

2,500

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (0ml = 100%)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	34,892,800	
4	<b>TOTAL PRODUCED AND PURCHASED</b>		
5			
6	<b>WATER SALES</b>		
7	Residential	17,539,200	
8	Commercial	442,100	
9	Industrial	2,590,000	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	382,000	
13	<b>TOTAL WATER SALES</b>		60.1%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	87,900	
19	Fire Department	2,000	
20	Other <u>Dead/Theft/Pumphouse</u>	26,700	
21	<b>TOTAL OTHER WATER USED</b>		0.3%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	4,353,760	
26	Line Leaks	9,469,140	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>		39.6%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		

BIG SANDY WATER LOSS REPORT					
FOR AUGUST 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1150	\$39,689.99	\$28,828.26	\$24,869.64
RATTLESNAKE	\$3.82	106	\$3,299.33	\$2,169.76	\$1,656.73
ASHLAND	\$2.19	1271	\$18,417.90	\$19,039.86	\$21,775.17
CANNONSBURG	\$4.42	651	\$13,229.06	\$22,926.10	\$5,772.08
<b>TOTAL</b>		<b>3178</b>	<b>\$74,636.28</b>	<b>\$72,963.98</b>	<b>\$54,073.62</b>
A. Water Purchased			27,831,400	25,754,100	21,445,400
Sold			14,852,500	15,178,900	14,600,500
B. Difference - Loss	\$33,354.55		12,978,900	10,575,200	6,844,900
% Difference			47%	41%	32%
Water Sales			1,700		
Breaks			3,881,280	3,973,040	2,550,800
Hydrant Flushing			81,900	17,500	33,650
Storage Tank Overflow					
Pump House Use					
Fire Department Use			2,000		4,200
Other Meter Testing			25,000	24,800	
C. Total Gallons Accounted For			3,991,880	4,015,340	2,588,650
Unaccounted For			8,987,020	6,559,860	4,256,250
(B - C)					
% Loss Unaccounted for			32%	26%	20%
= B - C					
A					
Gallons / Day Loss			289,904	211,608	137,298
Gallons Loss (G.P.M.)			201	147	95

BIG SANDY WATER LOSS REPORT					
FOR AUGUST 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
Louisa Water District	\$3.06	1576	\$21,607.89	\$22,460.71	\$23,511.81
A. Water Purchased			7,061,400	7,340,100	7,683,600
Sold			6,100,800	5,798,300	5,945,400
B. Difference - Loss	\$2,939.44		960,600	1,541,800	1,738,200
% Difference			14%	21%	23%
Water Sales					
Breaks			472,480	707,260	202,800
Hydrant Flushing			6,000	20,500	21,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use				2,500	
Other				2,500	
C. Total Gallons Accounted For			478,480	732,760	223,800
Unaccounted For			482,120	809,040	1,514,400
(B - C)					
% Loss Unaccounted for			7%	11%	20%
= B - C					
A					
Gallons / Day Loss			15,552	26,098	48,851
Gallons Loss (G.P.M.)			11	18	34

**Leaks & Flushing  
Aug-18**

**KRAC Leaks**

**KRAC Flushings**

7/27-8/7	- Durbin Rd - 3/4" line 5gpm	100,800	7/31/2018	- Tigger Br 40mins	4,000
8/6/2018	- Linda Cir - 3/4" line split 10gpm	86,400	8/1/2018	- Dog Fork	2,000
8/3-8/9	- Cactus Rd - 3/4" line pinhole 5gpm	64,800	8/8/2018	- Hwy 1 30mins	3,000
8/7/2018	- Rt 3 - 4" line	175,000	8/9/2018	- Hwy 3399	5,000
8/9/2018	- St Hwy 773 - changed meter bottom 3-4gpm	51,840		- Blaine Crk	1,000
	- St Hwy 1654 - 3/4" line split 20gpm	259,200	8/17/2018	- Brooks Dr	2,000
8/10/2018	Gillum Branch - 2" line	360,000		- Kendall Ln 20mins.	3,500
8/7/2018	Long Br - 3/4" line split 10gpm	100,800	8/18/2018	Long Branch (Les)	8,000
8/10-8/13	Four Mile Rd - water leak 6" tapping sleeve 20gpm	288,000	8/19/2018	Long Branch (Les)	12,000
8/13/2018	- Burchett Br - leak 10gpm	14,400	8/20/2018	- Clay Jack 30mins.	6,000
8/14/2018	- Mockingbird Trl - 3" line 25gpm	504,000		- Blue Ribbon 32minsx75gpm	2,400
	- Davis Br 3/4" 5-6gpm	80,640		- Old Trace Rd 20mins.	4,000
	- E US Hwy 60 - meter bottom cracked	75,000		- Bear Creek	15,000
	Davis Br - 8" line contractors hit	275,000	8/21/2018	-Riva Ridge 75x100	7,500
8/16/2018	-Friendship 8" line split	245,000	8/22/2018	Burchett Br	3,500
8/18/2018	- Creek crossing	75,000	8/29/2018	- Durbin Rd	3,000
8/20/2018	- Silver Run meter bottom 8gpm	34,800		<b>TOTAL</b>	<b>81,900</b>
8/15-8/22	- Rt 854 meter bottom 2gpm	43,200			
8/24/2018	-Hwy 773 3/4" line snapped at corp 40gpm	125,000			
8/23/2018	- Rt 23 20"joint 12" line split	600,000			
8/28/2018	Sage Ln - water leak	100,800			
	Diamond Lines - 3/4" line split 5gpm	201,600			
8/30/2018	- Long Br - regulator leaking	20,000			
	<b>TOTAL</b>	<b>3,881,280</b>			
			<b>Fire Departments</b>		
			8/13/2018	Big Sandy VFD	2,000
				East Fork VFD	0
				Norton Branch VFD	0
				<b>TOTAL</b>	<b>2,000</b>
			<b>Theft of Service/Dead Meters</b>		
			8/21/2018	- Trace Rd	1,700
				<b>TOTAL</b>	<b>1,700</b>

Louisa Leaks		Louisa Flushings		
8/6/2018	Victoria Heights - meter bottom	10,000	8/7/2018 : : - Youngs Br - 35 mins	3,500
	Hwy 1760 & Rt 23 - 6" line split	150,000	8/16/2018 : : - Hwy 1690 20mins	2,500
8/21/2018	Hwy 23 - creek crossing out 30gpm	86,400	<b>TOTAL</b>	<b>6,000</b>
8/7-8/30	Woodlands Dr -meter bottom 5gpm	165,600	Fire Departments	
8/30/2018	meter bottom 3gpm	60,480	Aug-18 Cherryville VFD	No report
	<b>TOTAL</b>	<b>472,480</b>	Lowmansville VFD	0



# PUBLIC SERVICE COMMISSION

*emailed PSC  
11/30/18*

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (OMR MGS)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	29,764,400	
4	<b>TOTAL PRODUCED AND PURCHASED</b>		
5	<b>WATER SALES</b>		
7	Residential	13,417,100	
8	Commercial	305,800	
9	Industrial	2,931,500	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	306,100	
13	<b>TOTAL WATER SALES</b>	18,961,500	57.0%
14	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	6,500	
19	Fire Department	4,000	
20	Other <u>dead meters/pumphouse</u>	75,000	
21	<b>TOTAL OTHER WATER USED</b>	85,500	0.3%
22	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	3,367,180	
26	Line Leaks	9,351,220	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	12,718,400	42.7%
29	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
30			
31	<b>WATER LOSS PERCENTAGE</b>		
32	<b>Unaccounted-For Water (Line 28 divided by Line 4)</b>		
33			

**BIG SANDY WATER LOSS REPORT**

**FOR SEPTEMBER 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1151	\$27,849.57	\$39,689.99	\$21,385.07
<b>RATTLESNAKE</b>	<b>\$3.82</b>	106	\$2,054.40	\$3,299.33	\$1,368.71
<b>ASHLAND</b>	<b>\$2.19</b>	1271	\$24,273.96	\$18,417.90	\$21,617.49
<b>CANNONSBURG</b>	<b>\$4.42</b>	646	\$37.57	\$13,229.06	\$8,782.54
<b>TOTAL</b>		<b>3174</b>	<b>\$54,215.50</b>	<b>\$74,636.28</b>	<b>\$53,153.81</b>
<b>A. Water Purchased</b>			22,551,700	27,831,400	20,602,600
Sold			12,321,700	14,852,500	13,172,200
<b>B. Difference - Loss</b>	<b>\$24,478.66</b>		10,230,000	12,978,900	7,430,400
% Difference			45%	47%	36%
Water Sales				1,700	
Breaks			2,624,180	3,881,280	1,827,900
Hydrant Flushing			4,000	81,900	10,700
Storage Tank Overflow			0		
Pump House Use			0		
Fire Department Use			4,000	2,000	6,450
Other Meter Testing			75,000	25,000	
<b>C. Total Gallons Accounted For Loss</b>			2,707,180	3,991,880	1,845,050
Unaccounted For			7,526,820	8,987,020	5,585,350
<b>(B - C)</b>					
% Loss Unaccounted for			33	32%	27%
= B - C					
A					
<b>Gallons / Day Loss</b>			250,894	289,904	186,178
<b>Gallons Loss (G.P.M.)</b>			174	201	129

**BIG SANDY WATER LOSS REPORT**

**FOR SEPTEMBER 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
Louisa Water District	\$3.06	1578	\$22,070.87	\$21,607.89	\$23,702.15
A. Water Purchased			7,212,700	7,061,400	7,745,800
Sold			4,639,500	6,100,800	5,019,000
B. Difference - Loss	\$7,873.99		2,573,200	960,600	2,726,800
% Difference			36%	14%	35%
Water Sales					
Breaks			743,000	472,480	464,680
Hydrant Flushing			2,500	6,000	9,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use					250
Other					
C. Total Gallons Accounted For Loss			745,500	478,480	473,930
Unaccounted For			1,827,700	482,120	2,252,870
(B - C)					
% Loss Unaccounted for			25%	7%	29%
= B - C					
A					
Gallons / Day Loss			60,923	15,552	75,095
Gallons Loss (G.P.M.)			42	11	52

Leaks and Flushings  
Sep-18

KACR Leaks		KACR Flushings		
9/6/2018	Glancy Frk meter bottom 7gpm	60,480	9/4/2018 - Hultz Rd	2,000
9/9/2018	Durbin Rd - Creek bank broke off took 4" line	75,000	9/26/2018 - Pigeon Roost 20 mins.	2,000
9/11/2018	Seedtick - 80' of 3" line creek bank 100gpm	65,000	<b>TOTAL</b>	<b>4,000</b>
	Blaine Creek - water leak	same		
9/13/2018	Bolts Fork - 20gpm	374,400		
9/14/2018	Mill Branch - leak 1" service line 5gpm	100,800		
8/31-9/14	Pine Ct - leak 10gpm (15 days)	216,000		
9/15/2018	Mill Branch - leak 15gpm	151,200		
7/3-9/26	Burchett Br water leak 7-8gpm	299,520		
8/15-9/27	Hwy 60 water leak 5gpm	108,000	<b>Fire Departments</b>	
9/18-9/27	N St Hwy 207 water leak 10gpm	259,200	Sept Big Sandy VFD	3,500
9/21/2018	Hwy 707 3/4" line	151,200	East Fork VFD	0
9/26/2018	E US Hwy 60 - meter bottom leaking 3gpm	112,320	Norton Br VFD	500
9/24/2018	Long Br - 60' 4" creek bank broke off	50,000	<b>TOTAL</b>	<b>4,000</b>
9/24-10/1	Rt 854 - couldn't find to turn off.	12,100		
9/24/2018	St Hwy 773 10gpm	345,600		
9/28/2018	coupling by 3" 90	21,600		
	Blaine Crk - 3/4" service line 10gpm	100,800		
9/28/2018	Needmore - reg leaking 3gpm	120,960		
	<b>TOTAL</b>	<b>2,624,180</b>		

Louisa Leaks		Louisa Flushings		
9/7/2018	See Br 4" line split	75,000	9/18/2018 - Hwy 2565	2,500
9/11/2018	Raven Rock - 3" line split under road 20gpm	316,800		
	Raven Rock - 3" coupling 10gpm	75,000		
9/13/2018	Cedgap - County hit 3"	75,000	<b>Fire Departments</b>	
9/5-9/21	Cedgap 3/4" leak 5gpm	151,200	Sept Cherryville VFD	No Report
9/27/2018	Beasley Br - water leak 40gpm	50,000	Lowmansville VFD	0
	<b>TOTAL</b>	<b>743,000</b>		

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM		
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased		30,327,800
4	<b>TOTAL PRODUCED AND PURCHASED</b>		
5			
6	<b>WATER SALES</b>		
7	Residential		14,576,400
8	Commercial		404,100
9	Industrial		3,030,300
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales	<u>schools, churches, fire departments</u>	372,400
13	<b>TOTAL WATER SALES</b>		60.6%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing		13,000
19	Fire Department		12,250
20	Other	<u>Tested meters</u>	75,000
21	<b>TOTAL OTHER WATER USED</b>		0.3%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks		1,695,480
26	Line Leaks		10,148,870
27	Other	<u></u>	
28	<b>TOTAL LINE LOSS</b>		39.1%
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>		

BIG SANDY WATER LOSS REPORT					
FOR OCTOBER 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1146	\$27,849.57	\$27,849.57	\$19,000.05
RATTLESNAKE	\$3.82	105	\$3,338.68	\$2,054.40	\$1,972.27
ASHLAND	\$2.19	1269	\$21,269.28	\$24,273.96	\$24,221.40
CANNONSBURG	\$4.42	639	\$8,084.62	\$37.57	\$2,892.89
<b>TOTAL</b>		<b>3159</b>	<b>\$60,542.15</b>	<b>\$54,215.50</b>	<b>\$48,086.61</b>
A. Water Purchased			23,336,500	2,251,700	19,679,800
Sold			13,161,700	12,321,700	12,706,800
B. Difference - Loss	\$24,694.87		10,174,800	10,230,000	6,973,000
% Difference			44%	45%	35%
Water Sales					
Breaks			1,327,480	2,624,180	1,025,740
Hydrant Flushing			7,000	4,000	7,000
Storage Tank Overflow			0	0	
Pump House Use			0	0	
Fire Department Use Fire Estimates			7,000	4,000	20,000
Other Meter Testing			75,000	75,000	
C. Total Gallons Accounted For Loss			1,416,480	2,707,180	1,052,740
Unaccounted For			8,758,320	7,526,820	5,920,260
(B - C)					
% Loss Unaccounted for			38%	33%	30%
= B - C					
A					
Gallons / Day Loss			282,526	250,894	190,976
Gallons Loss (G.P.M.)			196	174	133

**BIG SANDY WATER LOSS REPORT**

**FOR OCTOBER 2018**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1585</b>	<b>\$21,393.37</b>	<b>\$22,070.87</b>	<b>\$25,800.70</b>
<b>A. Water Purchased</b>			<b>6,991,300</b>	<b>7,212,700</b>	<b>8,431,600</b>
<b>Sold</b>			<b>5,221,500</b>	<b>4,639,500</b>	<b>5,664,700</b>
<b>B. Difference - Loss</b>	<b>\$5,415.59</b>		<b>1,769,800</b>	<b>2,573,200</b>	<b>2,766,900</b>
<b>% Difference</b>			<b>25%</b>	<b>36%</b>	<b>33%</b>
<b>Water Sales</b>					
<b>Breaks</b>			<b>368,000</b>	<b>743,000</b>	<b>681,600</b>
<b>Hydrant Flushing</b>			<b>6,000</b>	<b>2,500</b>	<b>14,700</b>
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>			<b>5,250</b>		
<b>Other</b>					
<b>C. Total Gallons Accounted For Loss</b>			<b>379,250</b>	<b>745,500</b>	<b>696,300</b>
<b>Unaccounted For</b>			<b>1,390,550</b>	<b>1,827,700</b>	<b>2,070,600</b>
<b>(B - C)</b>					
<b>% Loss Unaccounted for</b>			<b>20%</b>	<b>25%</b>	<b>25%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>44,856</b>	<b>60,923</b>	<b>66,794</b>
<b>Gallons Loss (G.P.M.)</b>			<b>31</b>	<b>42</b>	<b>46</b>

**Leaks & Flushings  
Oct-18**

<b>KARC Leaks</b>		<b>KARC Flushings</b>	
10/1/2018	Jerry Riffe small leak	10/2/2018	Rt 3 20 mins. 2,500
10/6/2018	Highway 207 - service line leak 20gpm 172,800	10/15/2018	Burchett Br 30 mins. 3,000
10/1-10/9	S St Hwy 773 spline 3/4" 10gpm 200,000	10/25/2018	Hultz Rd 1,500
10/2-10/12	Rt 854 3/4" line split (corp stop) 15gpm 216,000	<b>TOTAL</b>	<b>7,000</b>
10/13/2018	Bear Crk/Blue Ribbon - leak 8" bell leaking 200,000		
10/1-10/12	Hwy 707 3/4" line split 10gpm 100,000		
10/18/2018	Glancy Frk small leak in meter 51,840		
10/19/2018	Glancy Fork - 3" line washed out 100,000		
10/24/2018	Long Branch - bubbling up out of blacktop 50,000	<b>Fire Departments</b>	
10/31/2018	Glancy Fork - 3" line replaced line loss 5,000	October	Big Sandy VFD 7,000
10/3-10/31	Wilson Crk 3/4" line 4gpm 161,280		East Fork VFD no report
10/24-10/31	St Rt 854 leak 7gpm 70,560		Norton Br VFD 0
<b>TOTAL</b>	<b>1,327,480</b>	<b>TOTAL</b>	<b>7,000</b>

<b>Louisa Leaks</b>		<b>Louisa Flushings</b>	
10/5/2018	Highway 581 - creek crossing 200,000	10/11/2018	Chestnut 1,000
	Hay Br - leak at meter (drip) 5,000	10/12/2018	Nats Crk 2,000
10/2-10/9	S Side Loop - 3/4" line 10gpm 70,000	10/15/2018	Holt St 30mins@100gpm 3,000
10/9/2018	S Highway 3 - meter bottom 25,000	<b>TOTAL</b>	<b>6,000</b>
	Cedgap - pump leaking 45,000		
10/25/2018	Morgans Crk 3" creek crossing replaced 20,000		
	- pouring out where we replaced 3,000		
<b>TOTAL</b>	<b>368,000</b>		

<b>Fire Departments</b>		
October	Cherryville VFD	no report
	Lowmansville VFD	5,250
<b>TOTAL</b>		<b>5,250</b>



Emailed to PSC  
and Erin Dargatzis  
1/22/19.

# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (Omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	36,530,700	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>36,530,700</b>	
5	<b>WATER SALES</b>		
7	Residential	15,804,000	
8	Commercial	367,300	
9	Industrial	2,149,000	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	430,100	
13	<b>TOTAL WATER SALES</b>	<b>18,750,400</b>	51.3%
14	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	29,000	
19	Fire Department	-	
20	Other <u>Theft/Dead Meters, Meter Testing</u>	93,500	
21	<b>TOTAL OTHER WATER USED</b>	<b>122,500</b>	0.3%
22	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	2,379,440	
26	Line Leaks	15,278,360	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>17,657,800</b>	48.3%
29	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
30			
31	<b>WATER LOSS PERCENTAGE</b>		
32			
33	Unaccounted-For Water (Line 28 divided by Line 4)		<b>48.3%</b>

BIG SANDY WATER LOSS REPORT					
FOR NOVEMBER 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1143	\$36,298.74	\$27,849.57	\$20,739.15
RATTLESNAKE	\$3.82	105	\$3,622.12	\$3,338.68	\$1,574.99
ASHLAND	\$2.19	1268	\$22,405.89	\$21,269.28	\$23,503.08
CANNONSBURG	\$4.42	639	\$14,626.22	\$8,084.62	\$3,505.50
<b>TOTAL</b>		<b>3155</b>	<b>\$76,952.97</b>	<b>\$60,542.15</b>	<b>\$49,322.72</b>
A. Water Purchased			28,723,100	23,336,500	20,070,400
Sold			13,134,300	13,161,700	12,710,600
B. Difference - Loss	\$40,459.66		15,588,800	10,174,800	7,359,800
% Difference			54%	44%	37%
Water Sales			18,500		
Breaks			2,152,800	1,327,480	916,660
Hydrant Flushing			29,000	7,000	11,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates				7,000	5,000
Other Meter Testing			75,000	75,000	
C. Total Gallons Accounted For Loss			2,275,300	1,416,480	932,660
Unaccounted For			13,313,500	8,758,320	6,427,140
(B - C)					
% Loss Unaccounted for			46%	38%	32%
= B - C					
A					
Gallons / Day Loss			443,783	282,526	214,238
Gallons Loss (G.P.M.)			308	196	149

<b>BIG SANDY WATER LOSS REPORT</b>					
<b>FOR NOVEMBER 2018</b>					
		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
Louisa Water District	\$3.06	1584	\$23,891.26	\$21,393.37	\$21,506.59
A. Water Purchased			7,807,600	6,991,300	7,028,300
Sold			5,616,100	5,221,500	5,390,200
B. Difference - Loss	\$6,705.99		2,191,500	1,769,800	1,638,100
% Difference			28%	25%	23%
Water Sales					
Breaks			226,640	368,000	712,200
Hydrant Flushing				6,000	54,800
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates				5,250	2,500
Other					277,100
C. Total Gallons Accounted For Loss			226,640	379,250	1,046,600
Unaccounted For			1,964,860	1,390,550	591,500
(B - C)					
% Loss Unaccounted for			25%	20%	8%
= B - C					
A					
Gallons / Day Loss			65,495	44,856	19,717
Gallons Loss (G.P.M.)			45	31	14

**Leaks and Flushings  
Nov-18**

<b>KRAC Leaks</b>		<b>KRAC Flushings</b>		
11/1-11/7	- Wilson Creek 3/4" line 4gpm	40,320	11/6/2018 - Cherrywood Dr	3,000
11/1-11/8	- St Rt 854 approx 7gpm	80,640	11/14/2018 - Tennis Ct	5,000
11/5/2018	- Buchanan Chapel 3/4" leak 10gpm	72,000	11/14/2018 - White Oak Dr	2,500
	- St Rt 3 nut leaking 2gpm	14,400	11/15/2018 Goldenrod	2,500
11/7/2018	- Mill Br - 3/4" leak 10gpm	72,000	11/19/2018 - Spankem Branch	4,000
11/11/2018	Blue Ribbon - 6" leak	200,000	- Highway 207 Jim ts	8,000
11/14/2018	- Lynnwood Dr - 3" line 75gpm	108,000	11/26/2018 Highway 828 Bill & Tom ts	3,000
	- Rt 60 pigtail leaking	15,000	- US Hwy 60 10x100gpm	1,000
11/19/2018	Leak on Rt 60 - 6" line (2 days)	500,000	<b>TOTAL</b>	<b>29,000</b>
11/19/2018	Dave Ln leak 2" line 20gpm	547,200		
11/20/2018	-St Hwy 773 - valve leaking	10,000	<b>Fire Departments</b>	
11/21/2018	- Sycamore Ln 3/4" line 15gpm	21,600	Nov-18 Big Sandy VFD	0
11/22-11/23	Hwy 828 & Rt 1 3" line & bell 10gpm	43,200	East Fork VFD	0
11/23/2018	- Rt 3 3/4" line leak	150,000	Norton Br VFD	0
11/29/2018	Long Branch - 2" valve leaking	25,000		
11/8-11/30	- St Rt 854 leak 22 days	253,440	<b>Dead Meters</b>	
	<b>TOTAL</b>	<b>2,152,800</b>	Nov-18	4,000
				4,300
				2,900
				2,200
				4,200
				900
			<b>Total</b>	<b>18,500</b>

<b>Louisa Leaks</b>		<b>Louisa Flushings</b>		
11/1/2018	- Hwy 23 - s-pipe leaking 5gpm	216,000		0
11/2/2018	- Greenbriar Rd - meter bottom 1gpm	8,640		
11/2-11/7	- Hwy 644 - valve leaking (dripping)	1,000		
11/13/2018	Pt. Section - leak Randy's ts	1,000	<b>Fire Departments</b>	
	<b>TOTAL</b>	<b>226,640</b>	Nov-18 Cherryville VFD	no report
			Lowmansville VFD	0

# PUBLIC SERVICE COMMISSION

*Emailed  
copy to PSC  
2/21/19*

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (000,000)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	35,167,600	
4	<b>TOTAL PRODUCED AND PURCHASED</b>		
5			
6	<b>WATER SALES</b>		
7	Residential	14,925,000	
8	Commercial	270,900	
9	Industrial	2,850,400	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>churches, schools, fire departments</u>	332,300	
13	<b>TOTAL WATER SALES</b>		52.3%
14			
15	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	8,790	
19	Fire Department	7,000	
20	Other <u>Meter testing, dead meters</u>	21,600	
21	<b>TOTAL OTHER WATER USED</b>		0.1%
22			
23	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	2,014,500	
26	Line Leaks	14,737,110	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>		47.6%
29			
30	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		

BIG SANDY WATER LOSS REPORT					
FOR DECEMBER 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
KENOVA	\$2.55	1141	\$28,546.49	\$36,298.74	\$23,272.83
RATTLESNAKE	\$3.82	104	\$3,321.11	\$3,622.12	\$1,678.89
ASHLAND	\$2.19	1265	\$21,875.91	\$22,405.89	\$26,339.13
CANNONSBURG	\$4.42	639	\$22,009.83	\$14,626.22	\$2,997.20
<b>TOTAL</b>		<b>3149</b>	<b>\$75,753.34</b>	<b>\$76,952.97</b>	<b>\$54,288.05</b>
A. Water Purchased			27,032,700	28,723,100	22,271,200
Sold			12,872,500	13,134,300	15,325,600
B. Difference - Loss	\$38,529.84		14,160,200	15,588,800	6,945,600
% Difference			52%	54%	31%
Water Sales			3,500	18,500	
Breaks			1,726,400	2,152,800	864,520
Hydrant Flushing			6,790	29,000	5,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates					3,750
Other Meter Testing			6,000	75,000	16,900
C. Total Gallons Accounted For Loss			1,742,690	2,275,300	890,170
Unaccounted For			12,417,510	13,313,500	6,055,430
(B - C)					
% Loss Unaccounted for			46%	46%	27%
= B - C					
A					
Gallons / Day Loss			400,565	443,783	195,336
Gallons Loss (G.P.M.)			278	308	136

BIG SANDY WATER LOSS REPORT					
FOR DECEMBER 2018					
		# OF CUSTOMERS	DOLLAR AMOUNT	LAST MONTH	LAST YEAR
Louisa Water District	\$3.06	1582	\$24,892.79	\$23,891.26	20,640.31
A. Water Purchased			8,134,900	7,807,600	6,745,200
Sold			5,506,100	5,616,100	5,554,300
B. Difference - Loss	\$8,044.13		2,628,800	2,191,500	1,190,900
% Difference			32%	28%	18%
Water Sales			12,100		
Breaks			288,100	226,640	
Hydrant Flushing			2,000		35,200
Storage Tank Overflow					
Pump House Use					
Fire Department Use			7,000		
Fire Estimates					
Other					610,100
C. Total Gallons Accounted For Loss			309,200	226,640	645,300
Unaccounted For			2,319,600	1,964,860	545,600
(B - C)					
% Loss Unaccounted for			29%	25%	8%
= B - C					
A					
Gallons / Day Loss			74,826	65,495	17,600
Gallons Loss (G.P.M.)			52	45	12

**Dec-18  
Leaks and Flushings**

<b>KARC Leaks</b>		<b>KARC Flushings</b>		
8/28-12/11	Callahan Rd - valve leaking	100,000	12/3/2018 - Hwy 828 70x75mins	5,250
12/5/2018	Rabbit Ln - 1" line leaking 20gpm	86,400	12/12/2018 - Hwy 828 30minsx3gpm	90
12/6/2018	St Rt 854 leak at meter	20,000	12/19/2018 - Hwy 828 15mins.	450
12/6/2018	Rt 854 3/4" line 7gpm	50,000	12/31/2018 - Silver Run	1,000
12/6/2018	Left Frk Mrgs Crk - 3" wrap leaking in creek	20,000	<b>Total</b>	<b>6790</b>
12/7/2018	Leak in Rush (Les)	20,000		
12/11/2018	US Hwy 60 water leak 8gpm	750,000	<b>Fire Department</b>	
12/13/2018	Long Br - water leak	20,000	Dec-18 Big Sandy VFD	0
12/17-12/18	Spankem Br - 3/4" line 20gpm	60,000	East Fork VFD	0
12/21/2018	Rush 207 South - 3" line washed out	100,000	Norton Br VFD	0
12/19/2018	Blaine Crk - 4" line hit by contractor	100,000	<b>Total</b>	<b>0</b>
	- Panther Ln leak	20,000		
12/20/2018	Blaine Crk - 4" line big slip 50gpm	50,000	<b>Dead Meters</b>	
	2 more leaks can't get to - valved off	100,000	Dec-18	3,500
12/20/2018	Long Branch	100,000		
12/20-12/26	Runyan Rd - 3/4" service line 7gpm	15,000		
12/27/2018	Silver Run 3/4" line 40gpm	100,000		
12/31/2019	Friendship Rd - s-pipe leaking	15,000		
	<b>Total</b>	<b>1,726,400</b>		

<b>Louisa Leaks</b>		<b>Louisa Flushings</b>		
12/3-12/5	Hylton Rd - leak 15gpm	80,000	12/19/2018 - Thompson Frk Rd	2,000
12/7/2018	Hwy 2037 - valve leaking	3,100		
12/10/2018	Cedgap 3" line split	50,000		
12/7/2018	Torchlight - leak 15gpm	15,000	<b>Fire Departments</b>	
12/13/2018	Highway 581 - meter bottom (Rusty)	20,000	Dec-18 Cherryville VFD	no report
9/28-12/13	Hwy 644 valve leaking outside	10,000	Lowmansville VFD	7000
	Hwy 581 valve leaking	10,000	<b>Total</b>	<b>7,000</b>
12/30/2018	Hewlett Br - 6" line split 20' joint (Wells Group)	100,000		
	<b>Total</b>	<b>288,100</b>	<b>Dead Meters</b>	
			Dec-18	5,200
				6,700
				200
			<b>Total</b>	<b>12,100</b>



# PUBLIC SERVICE COMMISSION

## Monthly Water Loss Report

Water Utility:

For the Month of:  Year:

LINE #	ITEM	GALLONS (omit 000's)	
1	<b>WATER PRODUCED, PURCHASED &amp; DISTRIBUTED</b>		
2	Water Produced		
3	Water Purchased	37,222,600	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>37,222,600</b>	
5	<b>WATER SALES</b>		
7	Residential	15,582,800	
8	Commercial	284,700	
9	Industrial	2,615,900	
10	Bulk Loading Stations		
11	Wholesale		
12	Other Sales <u>schools, churches, fire departments</u>	314,700	
13	<b>TOTAL WATER SALES</b>	<b>18,798,100</b>	50.5%
14	<b>OTHER WATER USED</b>		
16	Utility and/or Water Treatment Plant		
17	Wastewater Plant		
18	System Flushing	4,000	
19	Fire Department	7,000	
20	Other _____		
21	<b>TOTAL OTHER WATER USED</b>	<b>11,000</b>	0.0%
22	<b>WATER LOSS</b>		
24	Tank Overflows		
25	Line Breaks	2,095,000	
26	Line Leaks	16,318,500	
27	Other _____		
28	<b>TOTAL LINE LOSS</b>	<b>18,413,500</b>	49.5%
29	Note: Line 13 + Line 21 + Line 28 Must Equal Line 4		
30			
31			
32	<b>WATER LOSS PERCENTAGE</b>		
33	Unaccounted-For Water (Line 28 divided by Line 4)		

**BIG SANDY WATER LOSS REPORT**

**FOR JANUARY 2019**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>KENOVA</b>	<b>\$2.55</b>	1141	\$32,127.71	\$28,546.49	\$29,962.76
<b>RATTLESNAKE</b>	<b>\$3.82</b>	104	\$2,734.36	\$3,321.11	\$3,297.81
<b>ASHLAND</b>	<b>\$2.19</b>	1259	\$25,182.81	\$21,875.91	\$27,797.67
<b>CANNONSBURG</b>	<b>\$4.42</b>	637	\$18,743.45	\$22,009.83	\$25,738.54
<b>TOTAL</b>		<b>3141</b>	<b>\$78,788.33</b>	<b>\$75,753.34</b>	<b>\$86,796.78</b>
A. Water Purchased			29,054,500	27,032,700	31,129,600
Sold			13,049,200	12,872,500	16,587,100
B. Difference - Loss		\$42,426.22	16,005,300	14,160,200	14,542,500
% Difference			55%	52%	47%
Water Sales (Dead Meters)			5,900	3,500	
Breaks			1,800,000	1,726,400	6,995,120
Hydrant Flushing			4,000	6,790	9,000
Storage Tank Overflow					
Pump House Use					
Fire Department Use Fire Estimates			1,000		3,700
Other Meter Testing				6,000	4,900
C. Total Gallons Accounted For Loss			1,805,000	1,742,690	7,012,720
Unaccounted For			14,200,300	12,417,510	7,529,780
(B - C)					
% Loss Unaccounted for			49%	46%	24%
= B - C					
A					
Gallons / Day Loss			458,074	400,565	242,896
Gallons Loss (G.P.M.)			318	278	169

**BIG SANDY WATER LOSS REPORT**

**FOR JANUARY 2019**

		<b># OF CUSTOMERS</b>	<b>DOLLAR AMOUNT</b>	<b>LAST MONTH</b>	<b>LAST YEAR</b>
<b>Louisa Water District</b>	<b>\$3.06</b>	<b>1584</b>	<b>\$24,994.38</b>	<b>\$24,892.79</b>	<b>\$34,144.40</b>
<b>A. Water Purchased</b>			<b>8,168,100</b>	<b>8,134,900</b>	<b>11,158,300</b>
<b>Sold</b>			<b>5,748,900</b>	<b>5,506,100</b>	<b>6,650,900</b>
<b>B. Difference - Loss</b>	<b>\$7,402.75</b>		<b>2,419,200</b>	<b>2,628,800</b>	<b>4,507,400</b>
<b>% Difference</b>			<b>30%</b>	<b>32%</b>	<b>40%</b>
<b>Water Sales</b>				<b>12,100</b>	
<b>Breaks</b>			<b>295,000</b>	<b>288,100</b>	<b>1,845,280</b>
<b>Hydrant Flushing</b>				<b>2,000</b>	<b>2,500</b>
<b>Storage Tank Overflow</b>					
<b>Pump House Use</b>					
<b>Fire Department Use Fire Estimates</b>			<b>6,000</b>	<b>7,000</b>	<b>4,500</b>
<b>Other</b>					
<b>C. Total Gallons Accounted For Loss</b>			<b>301,000</b>	<b>309,200</b>	<b>1,852,280</b>
<b>Unaccounted For</b>			<b>2,118,200</b>	<b>2,319,600</b>	<b>2,655,120</b>
<b>(B - C)</b>					
<b>% Loss Unaccounted for</b>			<b>26%</b>	<b>29%</b>	<b>24%</b>
<b>= B - C</b>					
<b>A</b>					
<b>Gallons / Day Loss</b>			<b>68,329</b>	<b>74,826</b>	<b>85,649</b>
<b>Gallons Loss (G.P.M.)</b>			<b>47</b>	<b>52</b>	<b>59</b>

**Leaks and Flushings**  
Jan-19

KRAC Leaks		KRAC Flushings	
1/2/2019	Spankem Br/Virginia Dr - 3/4" line pulled apart 25gpm	10,000	1,000
1/4/2019	- Fighting Frk meter bottom	5,000	3,000
1/7/2019	- Wilber Rd - 1" service line	15,000	4,000
12/18-1/15	- E US Hwy 60 - service line 10gpm 28 days	400,000	
1/10/2018	- Fighting Frk 3" line	120,000	
1/16/2019	- Spankem Br - 3/4" line broke	10,000	
1/18/2019	Blaine Creek - check valve leaking	50,000	
1/22/2019	- Zalda leak 25gpm	110,000	
	- Cedar Pt regulator & S-pipe	10,000	
1/25/2019	- Nursery Dr - 3/4" service line 6gpm	160,000	
1/25/2019	Queen Ln - 2" line leak 2" bell pulled apart 30gpm	120,000	
1/27/2019	Pinehurst - leak (weekend)	420,000	
1/28/2019	Cedar Dr - 3"x2" reducer leaking	100,000	
1/29/2019	Wilson Creek - leak (Rusty's TS)	10,000	
1/31/2019	Elijah Br - 3" bell pulled apart 25gpm	150,000	
	- Trace Rd - 3/4" line 5gpm	50,000	
	State Rt 3 & Stanley Ln - 1" line 30gpm	50,000	
	<b>TOTAL</b>	<b>1,800,000</b>	<b>5,900</b>

Louisa Leaks		Louisa Flushings	
1/2/2019	Elk Ln - leak 2" line busted in creek	100,000	
1/3/2019	Elk Ln - Co. Road Dept hit 2" line	50,000	
1/16/2019	- Crystal Ln 1" line 25gpm	50,000	
1/31/2019	Elk Ln - repaired 2" in creek	50,000	
1/31/2019	- Hwy 2033 meter bottom & reg 10gpm	15,000	
1/31/2019	- Bailey Ln - meter bottom 10-12gpm	30,000	
	<b>TOTAL</b>	<b>295,000</b>	<b>6,000</b>

Fire Departments		no report	
Jan	Cherryville VFD		6,000
	Lowmansville VFD		6,000
	<b>TOTAL</b>		<b>12,000</b>

Appendix # C

Case #2019-00041

Dated: March 12, 2019

2. Procedure we use in preparing the monthly water loss.
  - a. All monthly bills from each utility Kenova Water District, Ashland Water District, Cannonsburg Water District, Rattlesnake Water District, and the Louisa Water District is used along with the monthly consumption analysis, which is a break out of water used in each area, this is used to calculate the water purchased to the water sold.

Bobbi Burton

We calculate our leaks and flushing by using readings from our zone meters and telemetry. If we can't use the meter readings we try to determine how long the leak has been going (by talking with customers) and guess how many gallons per minute it was leaking.

James Blanton

- b. Names of and Job Titles of employees who prepare or assist in the preparation of the reports:

Randy McDaniels – Maintenance Supervisor

William Brooks - Operator

James Blanton – Operator

Bobbi Burton – Assistant Office Manager

James Blanton

- c. We use the PSC Monthly Water Loss Report and yes the breaks and leaks are listed in the water loss category but it is not calculated into the final percentage.

Bobbi Burton

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

**3. Water Loss Detection Plan**

- a. No we have not completed a water loss detection plan.**
- b. We use our zone meter readings and monitor our telemetry daily. A list of our zone meter readings are included in this packet.**

**James Blanton**

Feb 2019

	Garner	Usage	Middleton's	Usage	Rt 3/Smith	Usage	Quarry Br	Usage	Williams Crk	Usage
1	28722.8	67.0	21110.7	60.9	15241.9	66.7	18008.5	84.2	27284	34.4
2	28789.8	67.0	21171.6	61.0	15308.6	66.7	18092.7	84.1	2762.8	34.3
3	28856.8	67.0	21232.6	60.9	15375.3	66.7	18176.8	84.2	2934.3	34.4
4	28923.8	67.0	21293.5	61.0	15442.0	66.7	1826.4	84.1	2899.5	34.3
5	28990.8	55.9	21354.5	64.8	15508.7	66.5	18345.1	80.3	2865.6	31.9
6	29046.7	58.4	21419.3	64.7	15575.2	56.1	18425.4	83.5	2897.5	31.2
7	29105.1	54.1	21484.0	61.7	15631.3	56.2	18508.9	79.1	2928.7	30.7
8	29159.2	61.4	21545.7	61.1	15687.5	59.7	18588.0	70.7	2959.4	36.2
9	29220.6	61.4	21606.8	61.1	15746.6	59.7	18658.7	70.7	2995.6	36.2
10	29282.0	61.4	21667.9	61.1	15806.3	59.7	18729.4	70.7	3031.8	36.2
11	29343.4	61.4	21729.0	61.1	15866.0	59.7	18800.1	70.7	3068.0	36.2
12	29405.0	59.3	21790.3	57.3	15926.5	52.4	18870.9	86.0	3104.2	35.5
13	29464.3	57.5	21847.6	73.8	15978.9	64.1	18956.9	86.1	3139.7	38.4
14	29521.8	57.1	21921.4	71.6	16043.0	50.9	19073.0	58.8	3178.1	33.5
15	29578.9	61.9	21993.0	55.8	16093.9	58.9	19101.8	68.1	3211.6	38.2
16	29640.8	61.9	22048.8	55.8	16152.8	58.9	19169.9	68.2	3249.8	38.3
17	29702.7	61.9	22104.6	55.8	16211.7	58.9	19238.1	68.1	3288.1	38.3
18	29764.6	61.9	22160.4	55.8	16270.6	58.9	19306.2	68.2	3326.4	38.3
19	29826.6	59.6	22216.3	54.3	16329.6	57.1	19374.4	66.0	3364.7	38.5
20	29886.2	67.9	22270.6	66.0	16386.7	55.7	19440.4	64.2	3402.2	34.0
21	29954.1	53.8	22331.6	48.9	16442.4	56.4	19504.6	69.8	3437.2	38.3
22	30007.9	65.4	22380.5	56.6	16498.8	60.1	19574.4	67.5	3475.4	42.1
23	30073.3	65.4	22437.1	56.6	16558.9	60.2	19641.9	67.6	3517.5	42.2
24	30138.7	65.4	22493.7	56.6	16619.1	60.1	19709.4	67.5	3559.7	42.2
25	30204.1	63.1	22550.2	56.2	16679.3	53.8	19777.1	72.9	3601.9	29.0
26	30267.2	62.2	22606.4	54.1	16733.1	58.3	19850.0	71.8	3630.9	33.4
27	30329.4	62.2	22660.5	54.1	16791.4	58.3	19921.8	71.8	3664.3	33.4
28	30391.6	62.2	22714.6	54.1	16849.7	58.3	19993.6	71.8	3697.7	33.4
29										
30										
31										

(1,668.8) (59.6) (1,603.9) (57.3) (1,607.8) (57.4) (1,985.1) (70.9) (969.3) (34.6)

	Christie's	Usage	Bowling Dr	Usage	Columbia Gas	Usage	Calgon	Usage	Burnaugh	Usage
1	393.3	94.4	51465.6	75.0	18589.8	5.8	8917.1	56.0		
2	487.7	94.4	51540.1	75.0	18595.6	5.8	8973.1	55.9		
3	582.1	94.4	51615.6	75.0	18601.4	5.8	9028.1	56.0		
4	676.5	94.4	51690.1	75.0	18607.2	5.8	9588	55.9		
5	770.9	91.6	51765.6	61.2	186130	4.9	1064.7	105.9		
6	862.5	91.9	51826.8	59.9	186179	4.9	1170.6	52.3		
7	954.4	88.6	51886.7	58.0	186229	4.8	1222.9	49.1		
8	1043.0	85.7	51944.7	60.5	18627.5	4.5	1272.0	47.6		
9	1128.7	85.7	52005.2	60.5	18632.0	4.5	1319.6	47.6		
10	1214.4	85.7	52065.7	60.5	18636.5	4.5	1367.2	47.6		
11	1300.1	85.7	52126.2	60.5	18641.0	4.5	1414.8	47.6		
12	1386.0	85.6	52186.9	88.3	18645.5	4.6	1462.4	46.8		
13	1471.6	91.4	52275.2	88.3	18650.1	4.9	1509.2	49.0		
14	1563.5	77.4	52363.5	54.8	18655.0	4.1	1558.2	46.2		
15	1640.9	81.7	52418.3	61.1	18659.1	4.4	16044	47.7		
16	1722.6	81.8	52479.4	61.1	18663.5	4.4	1652.1	47.7		
17	1804.4	81.7	52540.5	61.1	18667.9	4.4	1699.8	47.7		
18	1886.1	81.8	52601.6	61.1	18672.3	4.4	1747.5	47.7		
19	1967.9	82.4	52662.6	65.0	18676.7	4.8	17953.8	54.4		
20	2055.8	74.4	52727.6	98.4	18681.5	3.6	1849.7	44.7		
21	2130.2	84.2	52826.0	190.4	18685.1	5.3	1894.4	52.8		
22	2214.4	84.5	53016.4	60.5	18690.4	4.6	1947.2	40.1		
23	2298.9	84.6	53076.9	60.5	18695.0	4.6	1987.3	40.1		
24	2383.5	84.5	53137.4	60.5	18699.6	4.6	2027.4	40.1		
25	2468.1	88.0	53197.9	60.7	18704.2	4.9	2067.6	47.4		
26	2548.1	81.2	53258.6	62.2	18709.1	4.6	2115.0	55.0		
27	2629.3	81.2	53320.8	62.2	18713.2	4.6	2170.0	55.0		
28	2710.5	81.2	53383.0	62.2	18718.3	4.6	2225.0	55.0		
29										
30										
31										

(2,317.2) (82.3) (1917.4) (68.5) (128.5) (4.6) (1,333.3) (47.6)



Feb 2019

	Spankem	Usage	Yates High	Usage	Yates Low	Usage	Fullers	Usage	Deephole	Usage	Pt. Section	Usage	Bussey	Usage
1	1046.7	22.2	4614.2	14.0	13941	3.8	7693.5	33.2	20566	4.3	19565.6	74.0	54484.9	184.3
2	1068.9	22.2	4628.4	14.1	13979	3.9	7726.7	33.1	2060.9	4.4	19639.8	74.1	54669.2	184.4
3	1091.1	22.2	4642.5	14.0	1401.8	3.8	7759.8	33.2	2065.3	4.3	19713.7	74.0	54853.6	184.3
4	1113.3	22.2	4656.5	14.1	1405.6	3.9	7793.0	33.1	2069.6	4.3	19782.7	74.1	55037.9	184.4
5	1135.5	16.9	4670.6	14.3	1409.5	4.0	7826.1	15.0	2073.9	4.0	19861.8	51.7	55222.3	163.0
6	1152.4	14.5	4684.2	14.2	14135	4.2	7841.1	22.2	2077.9	7.2	199135	74.6	55385.3	161.7
7	1166.9	12.4	4699.1	12.4	1466.9	2.3	7868.3	19.6	2085.1	5.5	19988.1	42.4	55547.0	142.0
8	1180.3	16.5	4711.5	13.1	1419.2	2.8	7887.9	22.4	2090.6	4.2	20030.5	68.0	55689.0	160.1
9	1196.8	16.5	4724.6	13.1	1422.0	2.8	7910.3	22.4	2094.8	4.2	20098.5	68.0	55849.1	160.1
10	1213.3	16.5	4737.7	13.1	1424.8	2.8	7932.7	22.4	2099.0	4.2	20166.5	68.0	56009.2	160.1
11	1229.8	16.5	4750.8	13.1	1427.6	2.8	7955.1	22.4	2103.2	4.2	20234.5	68.0	56169.3	160.1
12	1246.5	20.7	4764.1	12.8	1430.6	1.7	7977.5	14.7	2107.6	3.6	20302.6	49.1	56329.5	162.3
13	1262.2	16.5	4776.9	12.3	1432.3	1.9	7992.2	18.7	2111.2	4.5	20345.7	76.8	56491.8	171.2
14	1278.7	16.2	4789.2	11.9	1434.2	2.4	8016.2	15.7	2115.7	4.0	20422.5	57.4	56663.0	150.0
15	1294.9	16.5	4801.1	13.2	1436.6	2.9	8031.9	19.5	2119.7	4.5	20480.4	68.2	56813.0	169.0
16	1311.4	16.5	4814.3	13.3	1439.5	3.0	8051.4	19.5	2124.2	4.6	20548.6	68.3	56982.0	169.0
17	1327.9	16.5	4827.6	13.2	1442.5	2.9	8070.9	19.5	2128.8	4.5	20616.9	68.2	57151.0	169.0
18	1344.4	16.5	4840.8	13.3	1445.4	3.0	8090.4	19.5	2133.3	4.6	20685.1	68.3	57320.0	169.0
19	1361.0	15.7	4854.2	13.3	1448.4	2.3	8109.9	20.8	2137.9	4.4	20753.4	58.2	57489.0	182.1
20	1376.7	15.7	4867.5	12.4	1450.7	1.8	8130.7	31.6	2142.3	3.8	20811.6	61.0	57671.1	147.5
21	1392.4	16.5	4879.9	13.1	1452.5	2.7	8162.3	13.5	2146.1	3.6	20872.6	64.8	57812.6	166.5
22	1408.9	18.7	4893.0	13.1	1455.2	2.7	8175.8	12.1	2149.7	4.2	20937.4	86.5	57985.1	199.3
23	1422.6	18.8	4906.1	13.0	1457.9	2.7	8194.9	19.1	2146.9	4.2	21023.9	86.5	58184.4	199.3
24	1446.4	18.8	4919.1	13.1	1460.6	2.7	8214.0	19.1	2151.1	4.2	21110.4	86.5	58383.7	199.3
25	1465.2	18.4	4932.2	13.3	1463.4	2.6	8233.1	17.1	2162.3	3.7	21196.9	74.9	58583.2	166.5
26	1483.6	12.1	4945.5	13.2	1466.0	3.4	8250.2	18.4	2166.0	4.4	21271.8	74.4	58749.7	177.0
27	1495.7	12.1	4958.7	13.2	1469.4	3.4	8268.6	18.4	2170.4	4.4	21346.2	74.4	58926.7	177.0
28	1567.8	12.1	4971.9	13.2	1472.8	3.4	8287.0	18.4	2174.8	4.4	21420.6	74.4	59303.7	177.0
29														
30														
31														

(461.1)(16.5) (357.7) (12.8) (78.7) 2.8 (593.5) 21.2 (118.2)(4.2) (1855.0)(66.3)(4,818.8) 172.1

October 2018

	Garner	Usage	Middleton's	Usage	Rt 3/Smith	Usage	Quarry Br	Usage	Williams Crk	Usage
1	21112.1	49.4	10294.5	178.2	6619.0	91.8	1090.3.2	48.7	9364.6	30.9
2	21161.5	49.4	10472.7	178.2	6710.8	91.8	10951.6	48.7	9395.5	30.9
3	21211.1	42.4	10450.9	172.2	6802.9	90.1	11000.6	48.0	9426.6	31.3
4	21253.5	48.2	10823.1	178.5	6893.0	92.1	11048.6	48.8	9457.9	32.5
5	21301.7	48.3	11001.6	178.6	6985.1	92.1	11097.4	48.9	9495.4	32.6
6	21350.0	48.2	11180.2	178.5	7077.2	92.1	11146.3	48.8	9533.0	32.5
7	21398.2	48.3	11358.7	178.6	7169.3	92.1	11195.1	48.9	9570.6	32.6
8	21446.5	48.3	11537.4	172.9	7261.4	82.1	11244.0	47.5	9608.1	31.1
9	21494.8	48.3	11710.3	172.9	7348.5	82.1	11291.5	47.5	9639.2	31.1
10	21543.1	48.3	11883.2	172.9	7435.6	82.1	11339.0	47.5	9670.3	31.1
11	21583.5	47.0	12056.1	96.8	7522.8	92.9	11386.5	47.3	9701.3	32.0
12	21630.5	47.0	12152.9	96.8	7615.7	92.9	11433.8	47.3	9733.3	32.0
13	21677.5	47.0	12249.7	96.8	7708.6	92.9	11481.1	47.3	9765.3	32.0
14	21724.5	47.0	12346.5	96.8	7801.5	92.9	11528.4	47.3	9797.3	32.0
15	21771.5	47.0	12443.3	96.8	7894.4	92.9	11575.7	47.3	9829.3	32.0
16	21818.4	47.8	12540.2	56.8	7987.3	72.8	11623.0	46.4	9861.2	31.9
17	21866.2	47.8	12597.0	56.8	8060.1	72.8	11669.4	46.4	9893.1	31.9
18	21914.0	47.8	12653.8	56.8	8132.9	72.8	11715.8	46.4	9925.0	31.9
19	21961.8	47.8	12710.6	56.8	8205.7	72.8	11762.2	46.4	9956.9	31.9
20	22009.6	47.8	12767.4	56.8	8278.5	72.8	11808.6	46.4	9988.8	31.9
21	22057.4	47.8	12824.2	56.8	8351.3	72.8	11855.0	46.4	10020.7	31.9
22	22105.2	47.8	12881.0	56.8	8424.1	72.8	11901.4	46.4	10052.6	31.9
23	22153.0	47.8	12937.8	56.8	8496.9	72.8	11947.8	46.4	10084.5	31.9
24	22200.8	47.8	12994.6	56.8	8569.7	72.8	11994.2	46.4	10116.4	31.9
25	22249.1	45.0	13051.8	52.8	8643.0	56.9	12040.6	45.6	10148.9	29.6
26	22294.1	47.0	13104.6	153.9	8699.9	56.1	12086.2	46.6	10178.5	32.1
27	22341.1	47.0	13258.5	153.9	8756.0	56.1	12132.8	46.6	10210.6	32.1
28	22388.1	47.0	13412.4	153.9	8812.1	56.1	12179.4	46.6	10242.7	32.1
29	22435.1	47.0	13566.3	153.9	8868.2	56.1	12226.0	46.6	10274.8	32.1
30	22482.1	48.1	13720.4	191.7	8924.3	56.7	12272.26	48.0	10306.9	—
31	22530.2	48.2	13912.1	191.8	8981.0	56.7	12320.86	48.0	10306.9	—

(1418.1) (45.7) (3617.6) (116.7) (236.29) (76.2) (1418.4) (45.8) (442.3) 30.4

Oct 15 2018

	Christie's	Usage	Bowling Dr	Usage	Columbia Gas	Usage	Calgon	Usage	Burnaugh	Usage
1	5168.7	58.5	42099.5	68.1	18288.7	2.6	94861.2	53.0	21313.7	34.1
2	5227.2	58.5	42167.6	68.1	18291.3	2.6	94914.3	53.0	21347.8	34.1
3	5276.1	61.5	42236.1	63.6	18293.9	1.5	94967.4	53.0	21381.9	116.5
4	5347.5	58.3	42299.7	64.7	18295.4	2.3	95020.4	59.6	21498.4	6.2
5	5405.8	58.4	42364.4	64.8	18297.7	2.2	95073.4	59.6	21504.6	6.3
6	5464.2	58.3	42429.2	64.7	18299.9	2.3	95133.0	59.6	21510.9	6.2
7	5522.5	58.4	42493.9	64.8	18302.2	2.2	95192.6	59.7	21517.1	6.3
8	5581.0	58.5	42558.8	65.6	18304.1	2.0	95252.2	49.5	21523.5	0
9	5639.5	58.5	42624.4	65.6	18306.1	2.0	95311.9	49.5		0
10	5698.0	58.5	42690.0	65.6	18308.1	2.0	95361.4	49.5		0
11	5756.5	58.5	42755.6	65.6	18310.1	2.0	95410.9	49.5		0
12	5815.0	58.5	42821.2	65.6	18312.1	2.0	95460.4	49.5		0
13	5873.5	58.5	42886.8	65.6	18314.1	2.0	95509.9	49.5		0
14	5932.0	58.5	42952.4	65.6	18316.1	2.2	95559.4	49.5		0
15	5990.5	58.5	43018.0	65.6	18318.3	2.3	95608.9	46.2		0
16	6049.0	61.2	43083.2	67.7	18320.6	2.0	95655.1	48.6	21523.6	0
17	6110.2	61.2	43150.9	67.7	18322.6	2.0	95703.7	48.6		
18	6171.4	61.2	43218.6	67.7	18324.6	2.0	95752.3	48.6		
19	6232.6	61.2	43286.3	67.7	18326.6	2.0	95800.9	48.6		
20	6293.8	61.2	43354.0	67.8	18328.6	2.0	95849.5	48.6		
21	6355.0	61.2	43421.7	67.7	18330.6	2.0	95898.1	48.6		
22	6416.2	61.2	43489.4	67.7	18332.6	2.0	95946.7	48.6		
23	6477.4	61.2	43557.1	67.7	18334.6	2.0	95995.3	48.6		
24	6538.6	61.2	43624.8	67.7	18336.6	2.5	96043.9	48.6		0
25	6600.5	59.5	43693.3	66.4	18339.1	1.6	96093.3	48.2	21523.8	0
26	6660.0	60.6	43759.7	67.8	18340.7	2.2	96142.5	40	21523.8	0
27	6720.6	60.6	43827.5	67.8		2.2	96182.5	40		0
28	6781.2	60.6	43895.3	67.8		2.2	96222.5	40		0
29	6841.8	60.6	43963.1	67.8		2.2	96262.5	40		0
30	6902.5	73.0	44031.0	69.5	18349.8	2.7	96302.3	58.4	21523.8	.1
31	6975.5	73.0	44100.5	69.5	18352.5	2.7	96360.7	58.4	21523.9	—

(1806.8) (58.3) (260.1) (64.5) (63.8) (2.1) (1499.5) (48.3)

OCTOBER 2018

	Yatesville High	Usage	Yatesville Low	Usage	Fullers Ridge	Usage	Deephole Rd	Usage	Point section	Usage	Busseyville	Usage
1	1092.6	1.2	3043.3	12.6	4922.4	19.7	1429.7	5.0	12752.8	46.8	35481.1	133.3
2	1093.8	1.2	3055.9	12.6	4942.1	19.7	1434.7	5.0	12799.6	46.8	35614.4	133.3
3	1095.0	2.4	3068.5	12.9	4961.8	24.1	1439.7	4.4	12846.4	63.0	35747.7	121.6
4	1097.4	2.1	3081.4	12.2	4985.9	23.6	1444.1	5.2	12909.4	45.3	35869.3	140.2
5	1099.5	2.1	3093.6	12.2	5009.5	23.6	1449.3	5.2	12954.7	45.3	36009.5	140.2
6	1101.6	2.1	3105.8	12.2	5033.1	23.6	1454.5	5.2	13000.0	45.3	36149.7	140.2
7	1103.7	2.1	3118.0	12.2	5056.7	23.6	1459.7	5.2	13045.3	45.3	36289.9	140.2
8	1105.8	2.1	3130.2	12.2	5080.3	23.6	1464.9	5.2	13090.6	45.3	36430.1	140.2
9	1107.8	2.7	3142.4	12.9	5103.8	22.6	1470.2	5.3	13136.1	48.6	36570.1	131.4
10	1110.5	2.7	3155.3	12.9	5126.4	22.6	1475.5	5.3	13184.7	48.6	36701.5	131.4
11	1113.2	2.7	3168.2	12.9	5149.0	22.6	1480.8	5.3	13233.3	48.6	36832.9	131.4
12	1115.9	2.7	3181.1	12.9	5171.6	22.6	1486.1	5.3	13281.9	48.6	36964.3	131.4
13	1118.6	2.7	3194.0	12.9	5194.2	22.6	1491.4	5.3	13330.5	48.6	37095.7	131.4
14	1121.3	2.7	3206.9	12.9	5216.8	22.6	1496.7	5.3	13379.1	48.6	37227.1	131.4
15	1124.0	2.7	3219.8	12.9	5239.4	22.6	1502.0	5.3	13427.7	48.6	37358.5	131.4
16	1127.1	2.7	3232.5	12.7	5262.0	24.0	1507.5	4.9	13476.0	46.5	37489.9	131.5
17	1129.8	2.7	3245.2	12.7	5286.0	24.0	1512.4	4.9	13522.5	46.5	37621.4	131.5
18	1132.5	2.7	3257.9	12.7	5310.0	24.0	1517.3	4.9	13569.0	46.5	37752.9	131.5
19	1135.2	2.7	3270.6	12.7	5334.0	24.0	1522.2	4.9	13615.5	46.5	37884.4	131.5
20	1137.9	2.7	3283.3	12.7	5358.0	24.0	1527.1	4.9	13662.0	46.5	38015.9	131.5
21	1140.6	2.7	3296.0	12.7	5382.0	24.0	1532.0	4.9	13708.5	46.5	38147.4	131.5
22	1143.3	2.7	3308.7	12.7	5406.0	24.0	1536.9	4.9	13755.0	46.5	38278.9	131.5
23	1146.0	2.7	3321.4	12.7	5430.0	24.0	1541.8	4.9	13801.5	46.5	38410.4	131.5
24	1148.7	2.7	3334.1	12.7	5454.0	24.0	1546.7	4.9	13848.0	46.5	38541.9	131.5
25	1151.7	2.4	3347.0	12.7	5478.6	26.1	1552.3	4.2	13895.2	47.1	38674.2	131.4
26	1154.1	2.5	3359.7	12.4	5504.7	23.0	1556.5	5.2	13942.3	52.0	38805.6	140.7
27	1156.6	2.5	3372.1	12.4	5527.7	23.0	1561.7	5.2	13994.3	52.0	38946.3	140.7
28	1159.1	2.5	3384.5	12.4	5550.7	23.0	1567.0	5.2	14046.3	52.0	39087.0	140.7
29	1161.6	2.5	3396.9	12.4	5573.7	23.0	1572.2	5.2	14098.3	52.0	39227.7	140.7
30	1164.4	2.3	34096.9	12.7	5596.7	21.4	1577.6	4.7	14150.3	48.6	39368.4	144.7
31	1166.7	2.4	34109.6	12.7	5618.1	21.4	1582.3	4.7	14198.9	48.7	39513.1	144.7
	(74.1)	(2.4)	(367.6)	(11.9)	(585.7)	(12.2)	(152.6)	(4.9)	(1446.1)	(46.6)	(4,032.0)	(130.1)

**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

4. **Comprehensive Unaccounted for water loss reduction plan.**
  - a. **No we have not completed a comprehensive unaccounted water loss reduction plan.**
  - b. **Never heard or seen one.**

**James Blanton**

**Appendix # C****Case #2019-00041****Dated: March 12, 2019**

5. **Water loss reduction projects have included installing 11 zone meters in August 2012. We have also installed approximately 30 by-pass meters (5/8" x 3/4" meters around main valves) that helps with leak detection. Paid for and installed in house. The purpose of the by-pass meters is to be able to detect low flow below 6 gallons per minute. The valves that have been installed and we are currently still installing is so we can isolate smaller areas during leaks and leak detection. We also have been planning and will put out for bid by end of April 2019 a service line replacement project. We have had numerous leaks on our 3/4" and 1" service lines. We have miles of the "Blue Max" service lines and history has proven that it gets very brittle and splits. After this project is complete we hope to show a significant drop in our water loss. We have included a copy of the bid form for this project.**

**James Blanton**

#5

SME: 15030

**BID FORM**

**BIG SANDY WATER DISTRICT**

**CONTRACT NO. "H-1" PHASE V – WATER SYSTEM IMPROVEMENTS**  
(Stream Crossing Replacements, Service Line Replacements, etc.)

**BIDDER'S PROPOSAL**

Proposal of \_\_\_\_\_ (hereinafter called "BIDDER"), organized and existing under the laws of the State of \_\_\_\_\_, doing business as (a partnership, or a corporation, or an individual) \_\_\_\_\_, to Big Sandy Water District (hereinafter called "OWNER").

In compliance with the Advertisement for Bids, BIDDER hereby proposes to furnish all equipment, materials, and labor for the work required to construct the Contract No. "H-1" Phase V – Water System Improvements (Stream Crossing Replacements, Service Line Replacements, etc.) in strict accordance with the Contract Documents, within the time set forth therein, and at the prices stated below.

**BID SCHEDULE**

ITEM NO.	ITEM DESCRIPTION	UNIT QUANTITY		UNIT COST	TOTAL COST
<b>STREAM CROSSINGS REPLACEMENTS</b>					
1	8" HDPE DR9 (IPS) or 6" Fusible PVC (IPS) Waterline - Horizontal Directional Drill	450	LF		
2	6" HDPE DR9 (IPS) or 4" Fusible PVC (IPS) Waterline - Horizontal Directional Drill	575	LF		
3	1" HDPE Service Line (Horizontal Directional Drill)	100	LF		
4	12" Steel Casing Bore & Jack w/6" Waterline	70	LF		
5	¼" Service Line	25	LF		
6	6" PVC CL 250	200	LF		
7	4" PVC CL 250	140	LF		
8	3" PVC CL 200	50	LF		
9	6" Gate Valve	8	EA		
10	4" Gate Valve	4	EA		
11	3" Gate Valve	8	EA		
12	Leak Detector Assembly	6	EA		
13	Blow-Off Assembly	6	EA		
14	Tie New 6" to Ex. 4" PVC	2	EA		
15	Tie New 6" to Ex. 6" PVC	4	EA		
16	Tie New 3" to Ex. 3" PVC	6	EA		
17	Tie New Service Line to Ex. Service Line	1	EA		
18	Re-Connect Ex. Meter	2	EA		
19	6" End Cap	6	EA		
20	4" End Cap	4	EA		
21	3" End Cap	2	EA		
<b>Continued on next page ...</b>					

ITEM NO.	ITEM DESCRIPTION	UNIT QUANTITY		UNIT COST	TOTAL COST
22	Fiberglass Markers	14	EA		
<b>SERVICE LINE REPLACEMENT</b>					
23	Service Line ¾"	43,800	LF		
24	Service Line 1"	3,600	LF		
25	Reconnect Meters (Shortside) ¾"	773	EA		
26	Reconnect Meters (Longside) ¾"	431	EA		
27	Reconnect Meters (Shortside) 1"	6	EA		
28	Reconnect Meters (Longside) 1"	3	EA		
<b>CARSON LANE – LINE REPLACEMENT/UPGRADE</b>					
29	2" HDPE DR11 (Horizontal Directional Drill) @ U.S. 60	75	LF		
30	2" CL 250 PVC	300'	LF		
31	2" Gate Valve	1	EA		
32	2" Blow-off Assembly	1	EA		
33	Tie 2" to Ex. 6" Waterline	1	EA		
<b>TOTAL ITEMS BID (1 – 33)</b>					

BIDDER agrees to perform all of the Work described in the Specifications and shown on the Plans for the bid price of: \_\_\_\_\_

\_\_\_\_\_ Dollars and \_\_\_\_\_ Cents (\$\_\_\_\_\_). Amount shall be shown in both words and figures. The Unit Price shall govern. The Owner will make corrections in extensions and additions to determine the Total Bid Amount for Award.

No bid will be considered unless all **Items 1 thru 33** in the Bid Schedule are priced, and only one contract will be awarded.

The quantities of each item on the bid, as finally ascertained at the close of the contract, will determine the total payments to accrue under the contract.

No bid will be considered unless all items in the Bid Schedule are priced, and only one contract will be awarded.

The bid will be awarded in the aggregate total of the Bid Schedule.

The above price shall include all labor, materials, overhead, profit, insurance, and other costs necessary to cover the finished work of the several kinds called for including incidentals not set out as specific bid items and in accordance with Basis for Payment (Section 01740 of Specifications). The price per foot for pipe installation includes all labor, materials, excavation backfill, clean-up, seeding, testing etc., for a finished product.

By submission of this Bid, the BIDDER certifies, and in the case of a joint Bid, each party thereto certifies as to its own organization, that this Bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid, with any other BIDDER or with any competitor.

BIDDER hereby agrees to commence work under this Contract on or before a date to be specified in the Notice to Proceed and to fully complete the project within 180 consecutive calendar days thereafter. BIDDER further agrees to pay as liquidated damages, the sum of \$ 500.00 for each consecutive calendar day thereafter.

Accompanying this Proposal is a certified check or standard Bid Bond in the sum of \_\_\_\_\_



Appendix # C

Case #2019-00041

Dated: March 12, 2019

- 6. Annual and long-range Capital Improvement Plans. Original will be sent.

The image shows a large, multi-column table titled "BIG SANDY WATER DISTRICT WATER SYSTEM PROGRAM - A". The table is oriented vertically and contains multiple columns of data, including project descriptions, dates, and financial figures. The text is small and difficult to read due to the image quality. The table appears to be a detailed schedule or budget for water system projects.

Date 3/26/2019

				Audited	Audited
				(4114 Customers)	(4200 Customers)
				2011	2012
<b>Income</b>					
Current Water Revenue					
Late Charges				1,551,030	2,136,000
Other Water Revenue				32,276	15,000
Tap Fees				-	1,000
Miscellaneous				87,548	50,000
Inspection Revenue (BSWD inspection @ \$25 in tariff)				1,297	
Meter Test Revenue (\$40 per test)				4,950	2,000
Miscellaneous Material Revenue (sold to customer)				190	
Unmetered Water Revenue (fire department)				383	
Overtime Hours Revenue				655	
Field Collection Revenue @ cutoff				550	
Connection Fee Revenue				1,915	1,000
Reconnection Fee Revenue				3,135	1,000
Interest Income (Bank interest on accounts)				7,592	2,000
				13,276	1,000
<b>Total Income</b>				<b>1,704,797</b>	<b>2,213,000</b>
<b>Expenses</b>					
Operational and Maintenance Expenses:					
Wages - Operations Field				246,481	267,000
Wages - Operations Office				122,466	105,000
Wages - Commissioners				29,500	30,000
Payroll Taxes				31,199	37,000
Travel Expenses to KRWA training				2,420	4,000
Medical Insurance				71,252	76,200
Dental Insurance				3,565	3,600
Life Insurance				2,333	2,500
Employee Retirement				33,327	64,000
Louisa Water Purchase				126,765	300,000
Rattlesnake Ridge Water District Purchase				12,953	25,000
Kenova Water Purchase				251,741	469,000
Cannonsburg Water District Purchase				61,636	100,000
Electric				49,249	57,000
Telephone				7,523	6,200
Materials & Supplies Operation				3,994	23,700
Materials & Supplies Maintenance				-	100,000
Materials & Supplies Administration				5,774	20,000
Accounting Fees				4,400	4,600
Legal Fees				2,611	5,000
Engineering Fees				1,413	1,000
Contractual Services (Garbage, Cleaning, telemetry, copier)				11,831	30,000
Telemetry Expense				-	5,000
Beepers				781	2,000
Water Testing Expense				1,550	2,000
Truck & Equipment Expense				41,362	50,000
Insurance & Bonds				32,531	27,000
Postage				13,124	14,000
Bad Debt Expense				5,186	13,000
Miscellaneous Expense				14,695	15,000
Customer Accounts Interest				915	1,200
New Water Line Expense				114,664	
Depreciation Expense				-	
Asset Management Expenses (\$48,000 in 2009)				-	
<b>Total Operating Expenses</b>				<b>1,307,241</b>	<b>1,853,900</b>
Operating Income (loss)					
Other Expenses					
Long Term Bonds					
1993 (USDA )@ 4.5 % (1,214,000) Note A (\$1,014,500 - 2007)					
Interest				47,430	43,800
Principal				19,000	23,300
Debt Reserve					
2000 Series USDA @ 4.5% (495,000) Note D (\$444,500 - 2007)					
Interest				20,655	20,400
Principal				7,000	7,000
Debt Reserve				2,766	2,700
2001 Series USDA @ 4.5 % (527,000) Note B (\$497,500 - 2007)					
Interest				22,950	22,000
Principal				6,000	7,100
Debt Reserve				1,160	2,900
KIA @ 3.0 % (790,000) Note C					
Interest				41,859	40,100
Principal				5,000	5,000
Debt Reserve				2,135	4,500

Audited								
(4200 Customers)	Projected Growth LESS rate Increase	(4546 Customers)	Projected Growth	Projected Growth	Projected Growth	Projected Growth	Projected Growth	Projected
2012		2013	2014	2015	2016			
2,136,808	4%	2,309,025	2%	2,857,719	3%	2,943,450		
15,522	-52%	36,000	4%	36,000	4%	36,000		
1,000	#DIV/0!	1,000	4%	3,000	4%	3,000		
50,645	-42%	25,000	4%	25,000	4%	25,000		
-	5%	5,983	#DIV/0!	8,000	0%	8,000		
2,000	5%	5,983	199%	3,000	5%	3,000		
200	5%	200	0%	200	5%	200		
500	5%	500	0%	500	5%	500		
700	5%	700	0%	900	5%	900		
600	5%	600	0%	1,000	5%	1,000		
1,000	5%	1,000	0%	300	5%	300		
1,500	5%	3,000	100%	3,000	5%	3,000		
2,000	5%	8,000	300%	800	5%	800		
1,050	5%	1,050	0%	1,000	5%	1,000		
<b>2,213,525</b>	<b>30%</b>	<b>2,398,041</b>	<b>8%</b>	<b>2,857,184</b>	<b>19%</b>	<b>2,940,419</b>	<b>3%</b>	<b>3,026,150</b>
267,000		267,000		267,000		280,350		294,368
105,000		105,000		105,000		110,250		115,763
30,000		30,000		30,000		30,000		30,000
37,000		38,850		30,000		31,500		33,075
4,000		4,200		5,000		5,250		5,513
76,252		80,065		80,065		84,068		88,272
3,600		3,780		4,000		4,200		4,410
2,500		2,625		1,500		1,575		1,654
64,000		67,200		67,200		70,560		74,088
300,000		315,000		315,000		324,450		334,184
25,000		26,250		17,000		17,850		18,743
469,051		492,504		492,504		507,279		522,497
100,000		105,000		116,000		121,800		127,890
57,000		59,850		59,850		62,843		65,985
6,227		6,538		7,500		7,875		8,269
23,781		24,970		8,000		8,400		8,820
100,000	#DIV/0!	105,000		100,000		105,000		110,250
20,000	24%	21,000		20,000		21,000		22,050
4,650	8%	4,883		6,000		6,300		6,615
5,000	9%	5,250		9,000		9,450		9,923
1,000	2%	1,050		2,000		2,100		2,205
30,000	15%	31,500		30,000		31,500		33,075
500	#DIV/0!	525		5,000		5,250		5,513
200	74%	210		-		-		-
2,000	29%	40,000		15,000		15,750		16,538
50,000	21%	52,500		55,000		57,750		60,638
27,000	17%	28,350		28,000		29,400		30,870
14,000	17%	14,700		15,000		15,750		16,538
13,008	15%	13,658		12,000		12,600		13,230
15,000	2%	15,750		15,000		15,750		16,538
1,200	31%	1,260		2,000		2,100		2,205
-	100%	-		-		-		-
-		-		-		-		-
<b>1,853,969</b>	<b>42%</b>	<b>1,964,467</b>		<b>1,967,619</b>		<b>2,045,950</b>		<b>2,127,713</b>
43,871		42,820		41,720		40,571		39,370
23,385		24,438		25,538		26,687		27,888
20,417		20,102		19,772		19,428		19,068
7,007		7,322		7,652		7,996		7,996
2,742		2,742		2,742		2,742		2,706
22,058		21,737		21,401		20,684		13,589
7,139		7,460		7,796		8,146		8,513
2,920		2,920		2,920		2,883		2,210
40,175		39,963		39,963		39,638		39,275
5,000		5,000		7,500		10,000		10,000
-		-		4,746		4,964		4,928

Projected Growth	2016	Projected Growth	2017	Projected Growth	2018	Projected Growth	2019	Projected Growth
3%	2,943,450	3%	3,031,754	3%	3,122,706	3%	3,216,387	3%
4%	36,000	0%	36,000	0%	36,000	0%	36,000	0%
4%	3,000	0%	3,000	0%	3,000	0%	3,000	0%
4%	25,000	0%	25,000	0%	25,000	0%	25,000	0%
0%	8,000	5%	8,000	5%	8,000	5%	8,000	5%
0%	3,000	5%	3,000	5%	3,000	5%	3,000	5%
0%	200	5%	200	5%	200	5%	200	5%
0%	500	5%	500	5%	500	5%	500	5%
0%	900	5%	900	5%	900	5%	900	5%
0%	1,000	5%	1,000	5%	1,000	5%	1,000	5%
0%	300	5%	300	5%	300	5%	300	5%
0%	3,000	5%	3,000	5%	3,000	5%	3,000	5%
0%	800	5%	800	5%	800	5%	800	5%
0%	1,000	5%	1,000	5%	1,000	5%	1,000	5%
3%	3,026,150	3%	3,114,454	3%	3,205,406	3%	3,299,087	3%
	294,368		309,086		324,540		340,767	
	115,763		121,551		127,628		134,010	
	30,000		30,000		30,000		30,000	
	33,075		34,729		36,465		38,288	
	5,513		5,788		6,078		6,381	
	88,272		92,685		97,320		102,185	
	4,410		4,631		4,862		5,105	
	1,654		1,736		1,823		1,914	
	74,088		77,792		81,682		85,766	
	334,184		344,209		354,535		365,171	
	18,743		19,680		20,664		21,697	
	522,497		538,172		554,318		570,947	
	127,890		134,285		140,999		148,049	
	65,985		69,284		72,748		76,385	
	8,269		8,682		9,116		9,572	
	8,820		9,261		9,724		10,210	
	110,250		115,763		121,551		127,628	
	22,050		23,153		24,310		25,526	
	6,615		6,946		7,293		7,658	
	9,923		10,419		10,940		11,487	
	2,205		2,315		2,431		2,553	
	33,075		34,729		36,465		38,288	
	5,513		5,788		6,078		6,381	
	-		-		-		-	
	16,538		17,364		18,233		19,144	
	60,638		63,669		66,853		70,195	
	30,870		32,414		34,034		35,736	
	16,538		17,364		18,233		19,144	
	13,230		13,892		14,586		15,315	
	16,538		17,364		18,233		19,144	
	2,205		2,315		2,431		2,553	
	-		-		-		-	
	-		-		-		-	
	48,000		48,000		48,000		48,000	
	2,127,713		2,213,065		2,302,170		2,395,202	
	39,370		39,370		36,803		35,433	
	27,888		27,888		30,454		31,825	
	19,068		18,692		18,299		17,888	
	7,996		8,732		9,125		9,535	
	2,706		2,742		2,742		2,742	
	13,589		12,403		11,182		9,925	
	8,513		8,896		9,296		9,715	
	2,210		2,130		2,048		1,964	
	39,275		39,275		39,275		39,275	
	10,000		10,000		10,000		10,000	
	4,928		4,928		4,928		4,928	



2001 Series USDA @ 4.5 % (527,000) Note B (\$497,500 - 2007)					
Interest				22,950	22,
Principal				6,000	7,
Debt Reserve				1,160	2,
KIA @ 3.0 % (790,000) Note C					
Interest				41,859	40,
Principal				5,000	5,
Debt Reserve				2,135	4,
2001 KRWFC @ 4.15 % (728,000) Note E (\$676,000 - 2007)					
Interest				37,776	34,
Principal				23,000	30,
Debt Reserve					
2004 KRWFC @ 4.15% (728,000) Note F (\$658,000 - 2007)					
Interest				29,058	29,
Principal				29,000	19,
Debt Reserve					
2005 KRWFC @ (316,000)					
Interest				7,370	
Principal					
Debt Reserve					
2007 KRWFC Refinance 2005 (4.05% - 4.425%) (931,000) Note G					
Interest					19,
Principal					
Debt Reserve					
2013 Series USDA @ 2.80 % (1,000,000)					
Interest					
Principal					
Debt Reserve					
2013 3/4 ton pickup@ 7.0 % (\$38,000)					
Interest					
Principal					
2014 1/2 ton pickup@ 7.0 % (\$26,000)					
Interest					
Principal					
2015 1/2 ton pickup@ 7.0 % (\$26,000)					
Interest					
Principal					
Total Other Expenses				302,159	312,
Total Expenses				1,609,400	2,166,

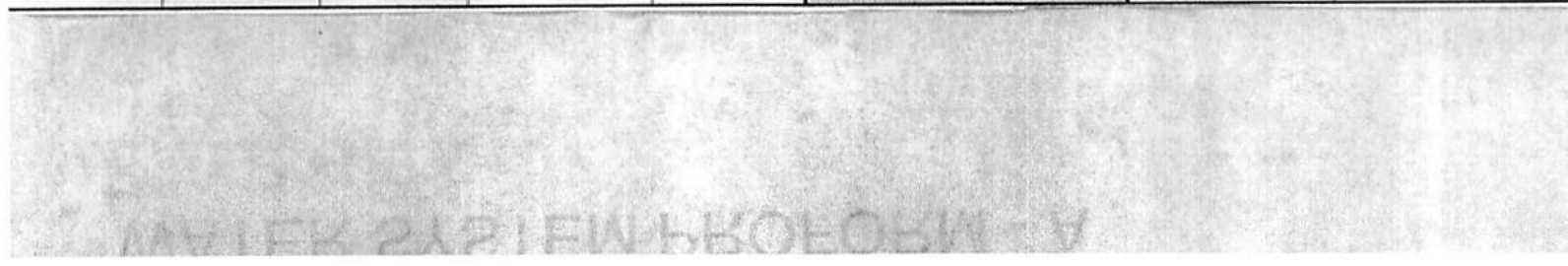
<b>Net Operating Income</b>				<b>2011</b>	<b>2012</b>
				<b>95,398</b>	<b>47,4</b>

Existing Water Rates	As of 8/1/2013	\$ 23.57		2,000	Gallons	Minimum E
		\$ 6.23	per	2,000	Gallons	to
		\$ 5.75	per	10,000	Gallons	to
		\$ 5.33	per	20,000	Gallons	to
		\$ 5.10	per	all over 50,000	Gallons	
Proposed Water Rates	As of 10/1/2013	\$ 16.62		1,000	Gallons	Minimum E
		\$ 8.35	per	1,001	Gallons	to
		\$ 5.75	per	10,001	Gallons	to
		\$ 5.33	per	20,001	Gallons	to
		\$ 5.10	per	all over 40,000	Gallons	

22,058		21,737		21,401		20,684		13,589
7,139		7,460		7,796		8,146		8,513
2,920		2,920		2,920		2,883		2,210
40,175		39,963		39,963		39,638		39,275
5,000		5,000		7,500		10,000		10,000
4,518		4,496		4,746		4,964		4,928
34,465		35,416		34,044		32,564		30,947
30,500		31,000		28,000		32,000		31,000
29,519		28,996		28,392		27,723		26,994
19,000		19,000		20,000		20,000		20,000
19,350		38,209		36,933		35,597		34,200
		31,000		32,000		34,000		35,000
				28,000		27,578		27,143
				12,053		12,656		13,289
				1,900		1,297		664
						8,247		8,659
						1,300		887
								8,247
								1,300
312,065	3%	362,621	14%	403,072	10%	416,700	3%	429,817
2,166,034	35%	2,327,088	7%	2,370,691	2%	2,462,650	4%	2,557,529

<b>2012</b>		<b>2013</b>		<b>2014</b>		<b>2015</b>		<b>2016</b>
<b>47,491</b>		<b>70,953</b>		<b>486,493</b>		<b>477,768</b>		<b>468,621</b>

<b>Minimum Bill</b>				<b>Average Rate</b>
to	10,000	Gallons		This Rate is based upon an average customer usage of 3,900 gallons monthly
to	20,000	Gallons		
to	50,000	Gallons		
<b>Minimum Bill</b>				<b>Average Rate</b>
to	10,000	Gallons		an average customer usage
to	20,000	Gallons		
to	40,000	Gallons		



6

13,589		12,403		11,182		9,925
8,513		8,896		9,296		9,715
2,210		2,130		2,048		1,964
39,275		39,275		39,275		39,275
10,000		10,000		10,000		10,000
4,928		4,928		4,928		4,928
30,947		30,947		30,947		30,947
31,000		31,000		31,000		31,000
26,994		26,994		26,994		26,994
20,000		20,000		20,000		20,000
34,200		34,200		34,200		34,200
35,000		35,000		35,000		35,000
27,143		27,143		26,238		25,126
15,944		15,944		16,849		17,321
13,289		13,289		13,289		13,289
664		664		664		664
8,659		8,659		8,659		8,659
887		887		887		887
8,247		8,247		8,247		8,247
1,300		1,300		1,300		1,300
429,817		429,330		428,427		427,504
2,557,529		2,642,395		2,730,598		2,822,705
<b>2016</b>		<b>2017</b>		<b>2018</b>		<b>2019</b>
<b>468,621</b>		<b>472,059</b>		<b>474,808</b>		<b>476,381</b>

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**Appendix # C**

**Case #2019-00041**

**Dated: March 12, 2019**

7. **Names of persons or entities responsible for assisting the utility with capital improvement planning, grant application assistance, engineering design and construction services:**  
**Joe Sisler – Sisler-Maggard Engineering**  
**Rural Development**

**James Blanton**