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ADMITTED IN KY AND WV

March 6, 2017

Public Service Commission
ATTN: David Spenard
P.O. Box 615
Frankfort, KY 40602

RE: Martin County Water District
PSC Case No. 2016-00142

Dear Mr. Spenard:

Enclosed please find an original and five (5) copies of Martin County Water District's Response to Post-Hearing Request for Information.

Thank you for your attention to this matter.

Very truly yours,

BRIAN CUMBO

BC/ld
Enclosure
cc: Martin County Water District

RECEIVED

MAR 9 2017

Public Service Commission

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

INVESTIGATION OF THE OPERATING	)	
CAPACITY OF MARTIN COUNTY WATER	)	CASE NO. 2016-00142
DISTRICT PURSUANT TO KRS 278.280	)	

MARTIN COUNTY WATER DISTRICT'S RESPONSE TO POST-HEARING REQUEST FOR INFORMATION

COMMISSION STAFF'S POST-HEARING REQUEST FOR INFORMATION to MARTIN COUNTY WATER DISTRICT

Martin County Water District ("Martin County'), pursuant to 807 KAR 5:001, is to file with the Commission the original and five copies of the following information, with a copy to all parties of record. The information requested herein is due on or before March 6, 2017. Responses to requests for information shall be appropriately bound, tabbed and indexed. Each response shall include the name of the witness responsible for responding to the questions related to the information provided.

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

Martin County shall make timely amendment to any prior response if it obtains information which indicates that the response was incorrect when made or, though correct when made, is now incorrect in any material respect. For any request to which Martin County fails or refuses to furnish all or part of the requested information, it shall provide a written explanation of the specific grounds for its failure to completely and precisely respond.

Careful attention shall be given to copied material to ensure that it is legible. When the requested information has been previously provided in this proceeding in the requested format, reference may be made to the specific location of that information in responding to this request. When filing a paper containing personal information, Martin County shall, in accordance with 807 KAR 5:001, Section 4(10), encrypt or redact the paper so that personal information cannot be read.

1. Provide a water-loss report for 2016 that shows water loss and total line

loss by month.

- See Exhibit #1

2. Provide the total length of service lines replaced since May 1 , 2015.

- See Exhibit #2

3. Provide the annual amount of coal severance funds received by Martin County for the years 2006 through 2016.

- See Exhibit #3

4. Provide a map showing the location of the 14 master meters installed on Martin County's water system.

- See Exhibit #4

5. Provide copies of any "profile-ready" engineering plans for water improvements.
   a. See Exhibit #5

CERTIFICATE OF SERVICE

This will certify that a true and correct copy of the foregoing was mailed, overnight mail, postage paid, on this the 7 day of March, 2017, to the following:

Public Service Commission
ATTN: David Spenard
P.O. Box 615
Frankfort, KY 40602

BRIAN CUMBO

Exhibit #1
Water Loss Report for 2016

Annual Water Use Report

Water Utility: **Martin County Water District**

Year: 2016 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			696.292	99%
3	Water Purchased			10.341	1%
4		**TOTAL PRODUCED AND PURCHASED**		706.633	
	WATER SOLD				
5	Residential			197.826	89%
6	Commercial			0.000	0%
7	Industrial			0.000	0%
8	Bulk Loading Stations			0.000	0%
9	Wholesale			0.000	0%
10	Other Sales (explain)	Honey Branch		24.011	11%
11			**TOTAL WATER SOLD**	221.837	31%
12			**TOTAL WATER NOT SOLD**	484.796	69%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			5.631	1%
14	Wastewater Plant		Estimated	0.000	0%
15	System Flushing		Estimated	30.050	4%
16	Fire Department		Estimated	3.725	1%
17	Other (explain)	Leaks Not Repaired 474 GPM		135.050	19%
			TOTAL UNSOLD WATER USED	**174.456**	25%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows		Estimated	0.000	0%
19	Line Breaks		Estimated	51.724	7%
20	Other Loss			258.616	37%
			TOTAL UNSOLD WATER LOST	310.340	44%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	258.616
22	% "Other Loss"	37%
23	Number of Days in Period	366
24	"Other Loss" per Day (1,000's gallons per Day)	0.707
25	"Other Loss" per Minute (GPM)	0.491

Kentucky UNBRIDLED SPIRIT

COMMONWEALTH OF KENTUCKY

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: January Year: 2016

LINE #	ITEM				GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**					
2	Water Produced				58.557	96%
3	Water Purchased				2.528	4%
4			**TOTAL PRODUCED AND PURCHASED**		61.085	
	WATER SOLD					
5	Residential				19.109	92%
6	Commercial				0.000	0%
7	Industrial					0%
8	Bulk Loading Stations					0%
9	Wholesale					0%
10	Other Sales (explain)	Honey Branch Industrial Park			1.697	8%
11			**TOTAL WATER SOLD**		20.806	34%
12			**TOTAL WATER NOT SOLD**		40.279	66%
	BREAKDOWN OF UNSOLD WATER USED					
13	Utility and/or Water Treatment Plant				0.503	1%
14	Wastewater Plant				0.000	0%
15	System Flushing			Estimated	2.500	4%
16	Fire Department			Estimated	0.350	1%
17	Other (explain)	Leaks not repaired	336 GPM	Estimated	12.960	21%
			TOTAL UNSOLD WATER USED		**16.313**	27%
	BREAKDOWN OF WATER LOST					
18	Tank Overflows				0.000	0%
19	Line Breaks				8.966	15%
20	Other Loss				15.000	25%
			TOTAL WATER LOST		23.966	39%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	15.000
22	% "Other Loss"	25%
23	Number of Days in Period	31
24	"Other Loss" per Day (1,000's gallons per Day)	0.484
25	"Other Loss" per Minute (GPM)	0.336

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Revised: January 10, 2007

onthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: February Year: 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			56.058	96%
3	Water Purchased	Kermit Water		2.430	4%
4		**TOTAL PRODUCED AND PURCHASED**		58.488	
	WATER SOLD				
5	Residential			14.629	95%
6	Commercial			0.000	0%
7	Industrial				0%
8	Bulk Loading Stations				0%
9	Wholesale				0%
10	Other Sales (explain)	Honey Branch		0.769	5%
11		**TOTAL WATER SOLD**		15.398	26%
12		**TOTAL WATER NOT SOLD**		43.090	74%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			0.482	1%
14	Wastewater Plant				0%
15	System Flushing		Estimated	2.500	4%
16	Fire Department		Estimated	0.250	0%
17	Other (explain)	Leaks not repaired 287 GPM	Estimated	12.398	21%
		TOTAL UNSOLD WATER USED		**15.630**	27%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows			0.000	0%
19	Line Breaks		Estimated	2.858	5%
20	Other Loss	\	Estimated	24.602	42%
		TOTAL WATER LOST		27.460	47%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	24.602
22	% "Other Loss"	42%
23	Number of Days in Period	29
24	"Other Loss" per Day (1,000's gallons per Day)	0.848
25	"Other Loss" per Minute (GPM)	0.589

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: March Year: 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			59.366	95%
3	Water Purchased			2.823	5%
4		**TOTAL PRODUCED AND PURCHASED**		62.189	
	WATER SOLD				
5	Residential			17.597	82%
6	Commercial			0.000	0%
7	Industrial				0%
8	Bulk Loading Stations				0%
9	Wholesale				0%
10	Other Sales (explain)	Honey Branch Industrial Park		3.858	18%
11		**TOTAL WATER SOLD**		21.455	34%
12		**TOTAL WATER NOT SOLD**		40.734	66%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			0.469	1%
14	Wastewater Plant			0.000	0%
15	System Flushing		Estimated	3.000	5%
16	Fire Department		Estimated	0.250	0%
17	Other (explain)	Leaks not Repair 504 GPM	Estimated	10.000	16%
		TOTAL UNSOLD WATER USED		**13.719**	22%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows			0.000	0%
19	Line Breaks		Estimated	4.500	7%
20	Other Loss		Estimated	22.515	36%
		TOTAL WATER LOST		27.015	43%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	22.515
22	% "Other Loss"	36%
23	Number of Days in Period	31
24	"Other Loss" per Day (1,000's gallons per Day)	0.726
25	"Other Loss" per Minute (GPM)	0.504

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: April Year: 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			57.406	99%
3	Water Purchased			0.419	1%
4		**TOTAL PRODUCED AND PURCHASED**		57.825	
	WATER SOLD				
5	Residential			17.597	82%
6	Commercial			0.000	0%
7	Industrial				0%
8	Bulk Loading Stations				0%
9	Wholesale				0%
10	Other Sales (explain)	Honey Branch		3.832	18%
11		**TOTAL WATER SOLD**		21.429	37%
12		**TOTAL WATER NOT SOLD**		36.396	63%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			0.404	1%
14	Wastewater Plant			0.000	0%
15	System Flushing		Estimated	3.500	6%
16	Fire Department		Estimated	0.350	1%
17	Other (explain)	Leaks not Repaired 185 GPM	Estimated	15.892	27%
		TOTAL UNSOLD WATER USED		**20.146**	35%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows			0.000	0%
19	Line Breaks	(Elk Creek, Petercave, Railroad)	Estimated	8.250	14%
20	Other Loss			8.000	14%
		TOTAL WATER LOST		16.250	28%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	8.000
22	% "Other Loss"	14%
23	Number of Days in Period	30
24	"Other Loss" per Day (1,000's gallons per Day)	0.267
25	"Other Loss" per Minute (GPM)	0.185

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: May Year: 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			58.563	99%
3	Water Purchased			0.348	1%
4		**TOTAL PRODUCED AND PURCHASED**		58.911	
	WATER SOLD				
5	Residential			14.214	84%
6	Commercial			0.000	0%
7	Industrial				0%
8	Bulk Loading Stations				0%
9	Wholesale				0%
10	Other Sales (explain)	Honey Brach		2.782	16%
11		**TOTAL WATER SOLD**		16.996	29%
12		**TOTAL WATER NOT SOLD**		41.915	71%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			0.481	1%
14	Wastewater Plant			0.000	0%
15	System Flushing		Estimated	2.250	4%
16	Fire Department		Estimated	0.250	0%
17	Other (explain)	Leaks not Repaired 598 GPM	Estimated	10.000	17%
		TOTAL UNSOLD WATER USED		**12.981**	22%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows		Estimated	0.000	0%
19	Line Breaks		Estimated	2.250	4%
20	Other Loss			26.684	45%
		TOTAL WATER LOST		28.934	49%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	26.684
22	% "Other Loss"	45%
23	Number of Days in Period	31
24	"Other Loss" per Day (1,000's gallons per Day)	0.861
25	"Other Loss" per Minute (GPM)	0.598

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: June Year: 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			58.356	100%
3	Water Purchased			0.285	0%
4		**TOTAL PRODUCED AND PURCHASED**		58.641	
	WATER SOLD				
5	Residential			18.160	84%
6	Commercial			0.000	0%
7	Industrial				0%
8	Bulk Loading Stations				0%
9	Wholesale				0%
10	Other Sales (explain)	Honey Branch Industrial Park		3.481	16%
11		**TOTAL WATER SOLD**		21.641	37%
12		**TOTAL WATER NOT SOLD**		37.000	63%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			0.461	1%
14	Wastewater Plant		Estimated	0.000	0%
15	System Flushing		Estimated	2.750	5%
16	Fire Department		Estimated	0.350	1%
17	Other (explain)	Leaks not Repaired 436 GPM	Estimated	9.000	15%
		TOTAL UNSOLD WATER USED		**12.561**	21%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows		Estimated	0.000	0%
19	Line Breaks		Estimated	5.600	10%
20	Other Loss			18.839	32%
		TOTAL WATER LOST		24.439	42%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	18.839
22	% "Other Loss"	32%
23	Number of Days in Period	30
24	"Other Loss" per Day (1,000's gallons per Day)	0.628
25	"Other Loss" per Minute (GPM)	0.436

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: July Year: 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			58.102	99%
3	Water Purchased			0.668	1%
4		**TOTAL PRODUCED AND PURCHASED**		58.770	
	WATER SOLD				
5	Residential			18.160	90%
6	Commercial			0.000	0%
7	Industrial				0%
8	Bulk Loading Stations				0%
9	Wholesale				0%
10	Other Sales (explain)	Honey Branch		2.090	10%
11		**TOTAL WATER SOLD**		20.250	34%
12		**TOTAL WATER NOT SOLD**		38.520	66%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			0.480	1%
14	Wastewater Plant			0.000	0%
15	System Flushing		Estimated	1.300	2%
16	Fire Department		Estimated	0.350	1%
17	Other (explain)	Leaks not Repaired 490 GPM	Estimated	10.000	17%
		TOTAL UNSOLD WATER USED		**12.130**	21%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows			0.000	0%
19	Line Breaks		Estimated	4.500	8%
20	Other Loss			21.890	37%
		TOTAL WATER LOST		26.390	45%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	21.890
22	% "Other Loss"	37%
23	Number of Days in Period	31
24	"Other Loss" per Day (1,000's gallons per Day)	0.706
25	"Other Loss" per Minute (GPM)	0.490

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: August Year: 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			56.347	99%
3	Water Purchased			0.762	1%
4		**TOTAL PRODUCED AND PURCHASED**		57.109	
	WATER SOLD				
5	Residential			14.344	82%
6	Commercial			0	0%
7	Industrial				0%
8	Bulk Loading Stations				0%
9	Wholesale				0%
10	Other Sales (explain)	Honey Branch		3.080	18%
11		**TOTAL WATER SOLD**		17.424	31%
12		**TOTAL WATER NOT SOLD**		39.685	69%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			0.483	1%
14	Wastewater Plant		Estimated	0.000	0%
15	System Flushing		Estimated	1.500	3%
16	Fire Department		Estimated	0.325	1%
17	Other (explain)	Leaks not repaired 595 GPM	Estimated	10.000	18%
		TOTAL UNSOLD WATER USED		**12.308**	22%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows			0.000	0%
19	Line Breaks			0.800	1%
20	Other Loss			26.577	47%
		TOTAL WATER LOST		27.377	48%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	26.577
22	% "Other Loss"	47%
23	Number of Days in Period	31
24	"Other Loss" per Day (1,000's gallons per Day)	0.857
25	"Other Loss" per Minute (GPM)	0.595

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: September Year: 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			57.596	100%
3	Water Purchased			0.078	0%
4		**TOTAL PRODUCED AND PURCHASED**		57.674	
	WATER SOLD				
5	Residential			17.760	95%
6	Commercial			0.000	0%
7	Industrial				0%
8	Bulk Loading Stations				0%
9	Wholesale				0%
10	Other Sales (explain)	Honey Branch		0.927	5%
11		**TOTAL WATER SOLD**		18.687	32%
12		**TOTAL WATER NOT SOLD**		38.987	68%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			0.499	1%
14	Wastewater Plant		Estimated	0.000	0%
15	System Flushing		Estimated	2.500	4%
16	Fire Department		Estimated	0.250	0%
17	Other (explain)	Leaks not repaired 492 GPM	Estimated	11.000	19%
		TOTAL UNSOLD WATER USED		**14.249**	25%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows		Estimated	0.000	0%
19	Line Breaks		Estimated	3.500	6%
20	Other Loss			21.238	37%
		TOTAL WATER LOST		24.738	43%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	21.238
22	% "Other Loss"	37%
23	Number of Days in Period	30
24	"Other Loss" per Day (1,000's gallons per Day)	0.708
25	"Other Loss" per Minute (GPM)	0.492

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: October Year: 2016

LINE #	ITEM			GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**				
2	Water Produced			60.697	100%
3	Water Purchased			0	0%
4		**TOTAL PRODUCED AND PURCHASED**		60.697	
	WATER SOLD				
5	Residential			16.134	95%
6	Commercial			0.000	0%
7	Industrial				0%
8	Bulk Loading Stations				0%
9	Wholesale				0%
10	Other Sales (explain)	Honey Branch		0.850	5%
11		**TOTAL WATER SOLD**		16.984	28%
12		**TOTAL WATER NOT SOLD**		43.713	72%
	BREAKDOWN OF UNSOLD WATER USED				
13	Utility and/or Water Treatment Plant			0.468	1%
14	Wastewater Plant			0.000	0%
15	System Flushing		Estimated	3.250	5%
16	Fire Department		Estimated	0.300	0%
17	Other (explain)	Leaks not repaired 564 GPM	Estimated	11.000	18%
		TOTAL UNSOLD WATER USED		**15.018**	25%
	BREAKDOWN OF WATER LOST				
18	Tank Overflows			0.000	0%
19	Line Breaks			3.500	6%
20	Other Loss			25.195	42%
		TOTAL WATER LOST		28.695	47%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	25.195
22	% "Other Loss"	42%
23	Number of Days in Period	31
24	"Other Loss" per Day (1,000's gallons per Day)	0.813
25	"Other Loss" per Minute (GPM)	0.564

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: November Year: 2016

LINE #	ITEM				GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**					
2	Water Produced				55.721	100%
3	Water Purchased				0	0%
4			**TOTAL PRODUCED AND PURCHASED**		55.721	
	WATER SOLD					
5	Residential				14.723	100%
6	Commercial				0	0%
7	Industrial					0%
8	Bulk Loading Stations					0%
9	Wholesale					0%
10	Other Sales (explain)	Honey Branch				0%
11			**TOTAL WATER SOLD**		14.723	26%
12			**TOTAL WATER NOT SOLD**		40.998	74%
	BREAKDOWN OF UNSOLD WATER USED					
13	Utility and/or Water Treatment Plant				0.437	1%
14	Wastewater Plant				0.000	0%
15	System Flushing				2.500	4%
16	Fire Department				0.300	1%
17	Other (explain)	Leaks not Repaired	515 GPM		12.000	22%
			TOTAL UNSOLD WATER USED		**15.237**	27%
	BREAKDOWN OF WATER LOST					
18	Tank Overflows				0	0%
19	Line Breaks			Estimated	3.500	6%
20	Other Loss				22.261	40%
			TOTAL WATER LOST		25.761	46%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	22.261
22	% "Other Loss"	0.400
23	Number of Days in Period	30.000
24	"Other Loss" per Day (1,000's gallons per Day)	0.742
25	"Other Loss" per Minute (GPM)	0.515

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Monthly Water Use Report

Water Utility: **Martin County Water District**

For the Month of: December Year: 2016

LINE #	ITEM				GALLONS (Omit 000's)	%
1	**WATER PRODUCED or PURCHASED**					
2	Water Produced				59.523	100%
3	Water Purchased				0	0%
4			**TOTAL PRODUCED AND PURCHASED**		59.523	
	WATER SOLD					
5	Residential				15.399	96%
6	Commercial				0	0%
7	Industrial					0%
8	Bulk Loading Stations					0%
9	Wholesale					0%
10	Other Sales (explain)	Honey Branch			0.645	4%
11			**TOTAL WATER SOLD**		16.044	27%
12			**TOTAL WATER NOT SOLD**		43.479	73%
	BREAKDOWN OF UNSOLD WATER USED					
13	Utility and/or Water Treatment Plant				0.464	%
14	Wastewater Plant					0%
15	System Flushing				2.500	4%
16	Fire Department				0.400	1%
17	Other (explain)	Leaks not Repaired	250 GPM	Estimated	10.800	18%
			TOTAL UNSOLD WATER USED		**14.164**	24%
	BREAKDOWN OF WATER LOST					
18	Tank Overflows				0.000	0%
19	Line Breaks			Estimated	3.500	6%
20	Other Loss				25.815	43%
			TOTAL WATER LOST		29.315	49%

	"OTHER LOSS" FLOW RATE CALCULATION:	
21	"Other Loss"	25.815
22	% "Other Loss"	43%
23	Number of Days in Period	31.000
24	"Other Loss" per Day (1,000's gallons per Day)	0.833
25	"Other Loss" per Minute (GPM)	0.578

Kentucky UNBRIDLED SPIRIT

This form approved by: EPPC/DEP/DOW, KY PSC, KRWA

Exhibit #2

Estimated Replacement of Service Lines

Martin County Water District

387 East Main Street, Suite 140
Inez, KY41224

Office 606-298-3885 Fax 606-298-4913

March 3, 2017

TO WHOM IT MAY CONCERN:

Total length of service lines replaced since May 2015

- Three thousand four hundred and forty (3,440) feet of service lines replaced.

Exhibit #3
Coal Severance Funds
2006 thru 2016

MARTIN COUNTY FISCAL COURT

ANALYSIS OF STATE GRANTS IN RELATION

TO MARTIN COUNTY WATER AND SANITATION DISTRICTS

For the Periods January 1, 2006 through February 28, 2017

2006	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	47,769.24		
FERUARY	10,000.00	39,519.24	
MARCH	250,000.00		
APRIL	-		
MAY	32,380.76		
JUNE	101,621.00	32,174.71	
JULY	-		
AUGUST	82,825.00		
SEPTEMBER	1,418.95		
OCTOBER	8,352.05	21,700.00	
NOVEMBER	146,222.38	82,825.00	18,226.16
DECEMBER	77,104.00		
TOTAL	$ 757,693.38	$ 176,218.95	$ 18,226.16

2007	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	572,477.60	49,100.00	
FEBRUARY	130,830.23		
MARCH	-		
APRIL	727.00		
MAY	242,228.67	1,927.08	
JUNE	62,129.26		
JULY	44,502.51		
AUGUST	180,498.94		
SEPTEMBER	328,798.93		
OCTOBER	234,881.64		
NOVEMBER	60,709.11		88,167.00
DECEMBER	246,983.25	100,000.00	
TOTAL	$ 2,104,767.14	$ 151,027.08	$ 88,167.00

2008	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	17,418.43	142,601.00	
FEBRUARY	434,789.72	134,789.72	
MARCH	31,891.82		
APRIL	265,555.11	44,125.00	12,500.00
MAY	7,200.67	75,350.28	
JUNE	45,899.29		42,500.00
JULY	2,152.37		
AUGUST	502,807.62		
SEPTEMBER	24,425.00	8,600.00	
OCTOBER	326,995.54	11,060.00	
NOVEMBER	124,871.83		1,250.00
DECEMBER	31,982.17		
TOTAL	$ 1,815,989.57	$ 416,526.00	$ 56,250.00

2009	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	29,532.42		
FEBRUARY	11,946.32	10,000.00	
MARCH	15,479.13		
APRIL	40,401.85		
MAY	10,000.00		
JUNE	331,084.05	418,083.45	9,083.35
JULY	9,967.50		
AUGUST	1,000.00		
SEPTEMBER	2,051.50		
OCTOBER	6,482.72		
NOVEMBER	-		
DECEMBER	31,122.55		163,333.50
TOTAL	$ 489,068.04	$ 428,083.45	$ 172,416.85

2010	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	4,293.40		
FEBRUARY	-		
MARCH	-		
APRIL	-		
MAY	60,359.33		
JUNE	96,600.23	83,873.00	
JULY	-		
AUGUST	279,272.03	269,866.66	
SEPTEMBER	-		
OCTOBER	107,709.14	67,181.12	
NOVEMBER	222,069.63	171,387.21	
DECEMBER	861,689.54	471,213.39	
TOTAL	$ 1,631,993.30	$ 1,063,521.38	$ -

2011	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	27,826.52		
FEBRUARY	86,122.00	101,517.56	
MARCH	89,064.85	59,885.51	
APRIL	87,802.91	76,194.99	
MAY	176,702.07	38,662.30	
JUNE	26,571.37	68,314.45	
JULY	286,019.76	102,899.93	
AUGUST	136,752.95	164,486.12	
SEPTEMBER	105,237.03	108,958.35	
OCTOBER	-	94,440.13	
NOVEMBER	204,721.34	156,437.89	
DECEMBER	243,485.46		
TOTAL	$ 1,470,306.26	$ 971,797.23	$ -

2012	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	-	333,104.76	
FEBRUARY	45,242.56	75,363.82	
MARCH	-		
APRIL	330,511.85	289,981.48	
MAY	28,749.93		260,679.56
JUNE	354,092.62	13,872.00	233,610.95
JULY	218,038.11	274,292.50	
AUGUST	-	187,454.24	104,621.00
SEPTEMBER	344,857.54		
OCTOBER	146,100.18	342,069.59	
NOVEMBER	268,475.56	152,117.01	
DECEMBER	472,000.00		66,030.85
TOTAL	2,208,068.35	$ 1,668,255.40	$ 598,911.51

2013	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	198,817.23	259,221.93	
FEBRUARY	260,221.93	38,266.79	966.15
MARCH	192,662.66	295,998.90	
APRIL	59,616.67	48,033.10	
MAY	253,196.78		
JUNE	127,499.44	32,160.08	4,125.00
JULY	417,652.30	276,858.85	
AUGUST	294,462.12		
SEPTEMBER	304,330.64	135,156.26	
OCTOBER	85,166.17		19,421.14
NOVEMBER	656,334.75	57,500.00	
DECEMBER	481,786.65		-
TOTAL	3,331,747.34	$ 1,143,195.91	$ 24,512.29

2014	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	-	545,400.00	
FEBRUARY	-		
MARCH	350,181.91	305,855.00	
APRIL	233,477.39		
MAY	4,287.36	181,395.00	
JUNE	-		
JULY	266,143.11	189,700.00	
AUGUST	7,901.38		
SEPTEMBER	300,795.13		288,800.13
OCTOBER	328,945.61		295,553.07
NOVEMBER	321,095.60		106,783.51
DECEMBER	824,661.59		644,446.56
TOTAL	2,637,489.08	$ 1,222,350.00	$ 1,335,583.27

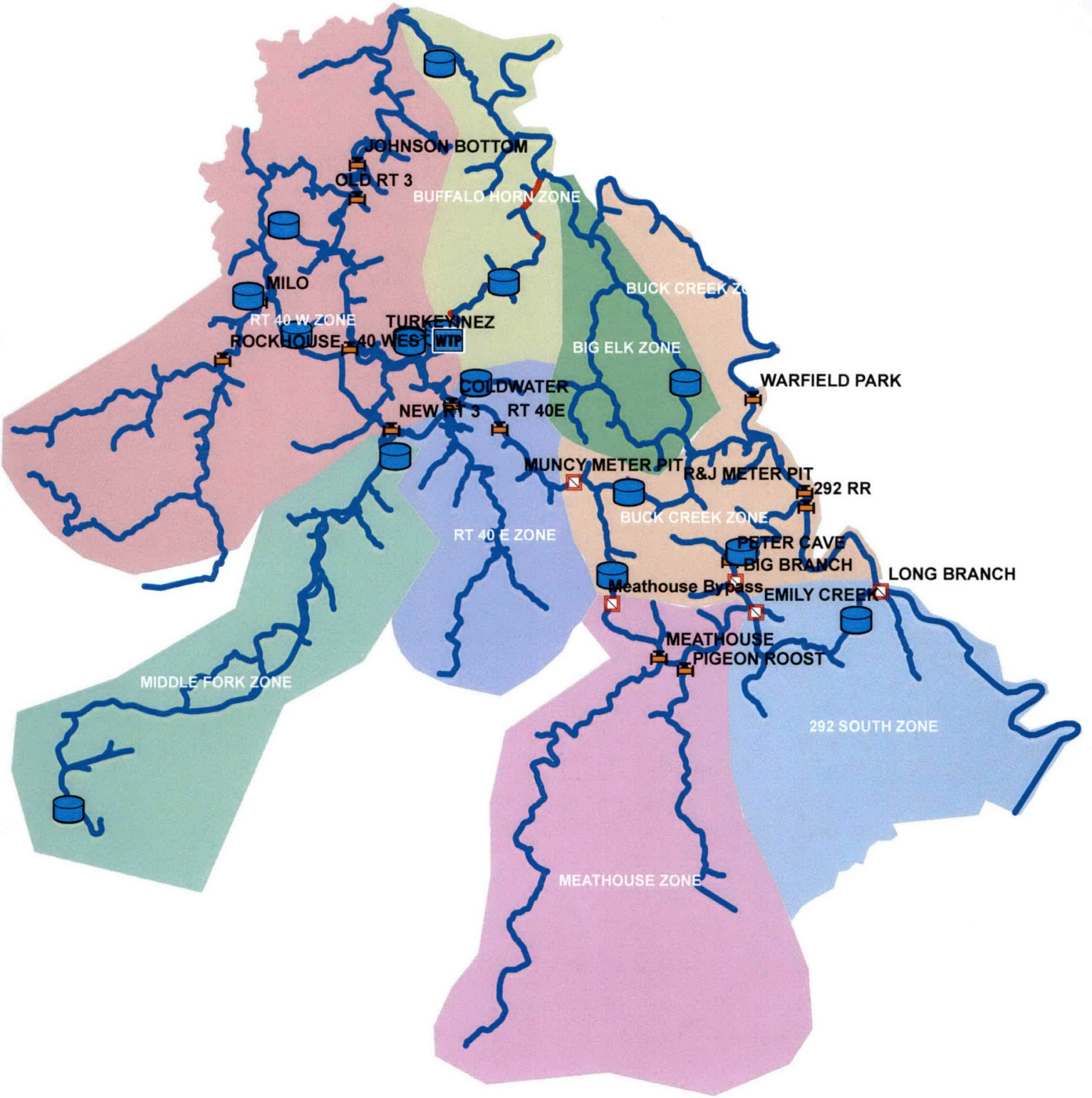
2015	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	675,916.26		642,061.24
FEBRUARY	5,000.00		121,805.12
MARCH	333,984.36		
APRIL	30,483.33		
MAY	67,504.59		
JUNE	-		
JULY	-		
AUGUST	-		
SEPTEMBER	-		
OCTOBER	-		
NOVEMBER	334,188.56		-
DECEMBER	-		
TOTAL	1,447,077.10	$ -	$ 763,866.36

2016	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	15,580.87		-
FEBRUARY	-		
MARCH	-		
APRIL	314,337.88		
MAY	15,758.53		
JUNE	22,426.31		
JULY	12,000.00		
AUGUST	51,932.30		
SEPTEMBER	-		
OCTOBER	17,607.44		
NOVEMBER	159,109.00		-
DECEMBER	-		
TOTAL	608,752.33	$ -	$ -

2017	REVENUES	EXPENDITURES	EXPENDITURES
MONTH	COUNTY STATE GRANT FUNDS	WATER DISTRICT	SANITATION DISTRICT
JANUARY	-		-
FEBRUARY	560,000.00		
TOTAL	560,000.00	$ -	$ -
TOTALS	$ 19,062,951.89	$ 7,240,975.40	$ 3,057,933.44

Exhibit #4
Master Meters Installed

M rtin County Water D strict
Meter Location Map



LEGEND

Infrastructure

- WTP
- WaterTank

Meter

- ZONE
- MONITOR

Water Line

- FINISHED
- RAW

Distribution Zone

- 292 SOUTH
- BIG ELK
- BUCK CREEK
- BUFFALO HORN
- MEATHOUSE
- MIDDLE FORK
- RT 40 E
- RT 40 W

Exhibit #5
Water Profile Improvements

Martin County Utility Board

387 East Main Street, Suite 140
Inez, KY41224

March 3, 2017

TO WHOM IT MAY CONCERN:

The District met with Tracy Wireman of Big Sandy ADD this day to update the WX numbers to correspond with the Project Rejuvenate. However, these projects must be presented to the Water Management Counsel for approval, which meets on March 28, 2017.

Thanks

Joe

Project Rejuvenate
MCWD

Disinfection Byproducts Reduction/water quality Projects (required)

- Clearwell aeration ----------WX21159016-- $10,000
- Clearwell diffusion pipe repair--------WX21159016-- $5,000
- Clarifier cover ----------WX21159016-- $200,000
- Filter at reservoir intake ----------WX21159016-- $20,000
- Rebuild #1 clarifier ----------WX21159007--- $1,000,000

Subtotal ---------- $1,235,000

System improvement/maintenance reduction (required)

- Raw Water Intake Upgrades ----------WX21159009-- $2,223,000

Water loss reduction (required)

- Radio read meter ----------WX21159007- $800,000
- Water Line Replacement (Ky. 2032,Little Rockcastle Wolf Creek, Meathouse, Pigeon Roost, Lovely, Turkey cr., And Warfield) ----------WX21159006- $3,600,000

Subtotal ---------- $4,400,000

Total for Required projects ----------$7,858,000

Water treatment plant improvements (desired)

- Structural Renovations (Operations Building)------- $216,000
- Mechanical Renovations (Operations Building)----- $196,000
- Electrical systems upgrades ---------- $280,000
- Architectural Renovations (Operations Building)---- $425,000
- Process Improvements and Expansion ---------- $3,430,000
- Engineering, contractors, Bonds, Inspection, ETC---- $1,047,807

Subtotal ---------- $5,594,000

Total Estimated Project Cost ---------- $13,452,000

Drinking Water Project Profile

Legal Applicant:	**Martin County Water District**		
Project Title:	**Martin County Rehab Aging Infrastructure**		
Project Number:	**WX21159006** View Map	Submitted By:	**BSADD**
Funding Status:	**Not Funded**	Primary County:	**Martin**
Project Status:	**Approved**	Planning Unit:	**Martin**
Project Schedule:	**0-2 Years**	Multi-County:	**No**
E-Clearinghouse SAI:		ECH Status:	
Applicant Entity Type:	**Water District (KRS 74)**	ADD WMC Contact:	**Tracy Wireman**
Date Approved (AWMPC):	**12-09-2014**		

Project Description:

This project will replace aging mains and service lines in areas of the District that have been identified as having water lines in very poor condition. The primary areas are: KY 2032 - Little Rockcastle, KY 1714 - Pigeon Roost, KY 1439 - Wolf Creek/Meathouse, Lovely, Warfield and Turkey Creek. This project will also replace the main water line along KY 40 and KY 292 from Buck Creek Hill to Warfield/Lovely.

The line replacements will replace lines size ranging from 4 inch to 6 inch. The existing sub-standard PVC lines will be replaced with 4" and 6" SDR PVC pipe.

Need for Project:

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

The lines in these areas are old, in poor condition, and too small for the volume needed to serve the customers in the area. These are areas with high water loss due to the condition of the existing water lines.

Project Alternatives:

Alternate A:

Continue to repair sections of line

Alternate B:

Legal Applicant:

Entity Type:	**Water District (KRS 74)**	PSC Group ID:	**25000**
Entity Name:	**Martin County Water District**		
Web URL:			
Office EMail:	**jhammond58@bellsouth.net**		
Office Phone:	**606-298-3885** Toll Free:	Fax:	**606-298-4913**
Mail Address Line 1:	**387 E Main St**	Phys Address Line 1:	
Mail Address Line 2:		Phys Address Line 2:	
Mail City, State Zip:	**Inez, KY 41224**	Phys City, State Zip:	
Contact:	**Joe Hammond**	Auth Official:	**Kelly Calahamn**
Contact Title:	**Business Manager**	Auth Official Title:	**Judge Executive**
Contact EMail:	**jhammond58@bellsouth.net**	Auth Official EMail:	**kcallaham@suddenlinkmail.com**
Contact Phone:	**606-298-3885**	Auth Official Phone:	**606-298-2800**
Contact Cell:	**606-626-7748**	Auth Official Cell:	**606-626-5901**
Data Source:	**Kentucky Infrastructure Authority**	Date Last Modified:	**03.03.2017**

Drinking Water Project Profile

WX21159006 - Martin County Water District
Martin County Rehab Aging Infrastructure

Project Administrator (PA) Information

Name: **Holly L Nicholas**
Title: **Project Developer**
Organization: **Kentucky Engineering Group, Pllc**
Address Line 1: **P.O. Box 1034**
Address Line 2:
City: **Versailles** State: **KY** Zip: **40383**
Phone: **859-333-9742** Fax: **859-251-4137**

Applicant Contact (AC) Information

Name: **Joe Hammond**
Title: **Business Manager**
Organization: **Martin County Utilities**
Address Line 1: **38 7 E Main St**
Address Line 2:
City: **Inez** State: **KY** Zip: **41224**
Phone: **606-626-7748** Fax: **606-298-4913**

Project Engineer (PE) Information:

☒ This project requires a licensed Professional Engineer.

License No: **PE 24022**
PE Name: **James C. Thompson**
Phone: **859-251-4127** Fax: **859-251-4137**
E-Mail: **jthompson@kyengr.com**
Firm Name: **Kentucky Engineering Group PLLC**
Addr Line 1: **Kentucky Engineering Group PLLC**
Addr Line 2: **161 North Locust Street**
Addr Line 3:
City: **Versailles** State: **KY** Zip: **40383**
Status: **Current** Disciplinary Actions: **NO**
Issued: **01-05-2005** Expires: **06-30-2018**

Engineering Firm Information:

Permit No: **2889**
Firm Name: **Kentucky Engineering Group PLLC**
Phone: **859-251-4127** Fax: **859-251-4137**
Web URL: **http://www.kyengr.com/**
EMail: **jthompson@kyengr.com**
Addr Line 1: **161 N. Locust St.**
Addr Line 2:
City: **Versailles** State: **KY** Zip: **40383**
Status: **Current** Disciplinary Actions: **NO**
Issued: **02-19-2009** Expires: **12-31-2017**

Drinking Water Project Profile

WX21159006 - Martin County Water District
Martin County Rehab Aging Infrastructure

Estimated Budget

Project Cost Classification:

Administrative Exp.:	**$ 25,000**
Legal Exp.:	**$ 10,000**
Land, Appraisals, Easements:	
Relocation Exp. & Payments:	
Planning:	
Engineering Fees - Design:	**$ 170,000**
Engineering Fees - Construction:	**$ 42,610**
Engineering Fees - Inspection:	**$ 118,490**
Engineering Fees - Other:	**$ 7,500**
Construction:	**$ 4,400,000**
Equipment:	
Miscellaneous:	
Contingencies:	**$ 400,000**
Total Project Cost:	**$ 5,173,600**

Construction Cost Categories:

Treatment:	
Transmission & Distribution:	**$ 4,400,000**
Source:	
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisision:	
Non-Catagorized:	
Total Construction:	**$ 4,400,000**

Total Sustainable Infrastructure Costs:

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

Project Funding Sources:

Total Project Cost: **$5,173,600**
Total Committed Funding: **$0**
Funding Gap: **$5,173,600 (Not Funded)**

☐ This project will be requesting SRF funding for fiscal year 2018.

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
KIA SRF Fund F Loan (DW)	F16-030	2016	$2,760,960	Invited	9/16/2015
KIA SRF Fund F Loan (DW)		2017	$3,599,900	Invited	10/28/2016
Total Committed					

Funding Source Notes:

Estimated Project Schedule:

Est. Environmental Review Submittal Date:
Estimated Bid Date: **02-06-2017**
Estimated Construction Start Date: **04-10-2017**
Estimated Construction Completeion Date:

The following systems are beneficiaries of this project:

✓ **KY0800273 Martin County Water District**

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:

Regional Ranking(s):
Planning Unit Ranking:
Total Points:

◯ Plans and specs have been sent to DOW.
◯ Plans and specs have been reviewed by DOW.
◯ Plans and specs have been sent to PSC.
◯ Plans and specs have been reviewed by PSC.

Drinking Water Project Profile

WX21159006 - Martin County Water District
Martin County Rehab Aging Infrastructure

Economic, Demographic and Geographic Impacts

Economic Impacts	
Jobs Created:	
Jobs Retained:	

*Demographic Impacts (GIS Census Overlay)			
Servceable Demographic	Project Area	Included Systems	Included Utilities
Population:	640	12,175	12,170
Households:	286	5,093	5,093
MHI:	$23,783	$25,814	*$25,814
MHI MOE	$6,630	$6,163	*$6,163
MOE as Pct:	28%	24.0%	24.0%
**NSRL:		2	2

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2011-2015 5Yr Estimates (Table B19013) *(for the primary system operated by the above listed beneficiary utilities).

MHI MOE = Med HH Income Margin of Error.

** NSRL (Non-Standard Rate Levels):
0 = Income above Kentucky MHI (KMHI).
1 = Income between 80% KMHI and KMHI.
2 = Income less than or equal to 80% KMHI.
- KMHI = $43,740
- 80% KHMI = $34,992

New Customers	
New Residential Customers:	
New Commercial Customers:	
New Institutional Customers:	
New Industrial Customers:	

New or Improved Service		
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:		
To Underserved Households:	3,335	286
To Total Households:	3,335	286
** Cost Per Household:	$1,551	

* GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.

** Cost per household is based on surveyed household counts, not GIS overlay values.

Geographic Impacts For Project Area

Counties
Martin

Legislative Districts	
District Name	Legislator
House 093	Chris Harris
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers

Groundwater Sensitivity Zones

HUC 10 Watersheds	
HUC Code	Watershed Name
0507020105	Wolf Creek-Tug Fork
0507020106	Rockcastle Creek-Tug Fork

Geographic Impacts For Included System(s)

Counties
Johnson
Lawrence
Martin

Legislative Districts	
District Name	Legislator
House 093	Chris Harris
House 096	Jill York
House 097	Scott Wells
Senate 30	Brandon Smith
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers

DW Specific Impacts:

- ☐ This project relates to a public health emergency.
- ☐ This project will assist a non-compliant system to achieve compliance.
- ☐ This project will assist a compliant system to meet future requirements
- ☑ This project will provide assistance not compliance related.
- ☐ This project is necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree.
- ☐ Primary system has not received any SDWA Notices of Violation within the previous state fiscal year-July through June, i.e. July 2014 – June 2015).

Project Inventory (Mapped Features):

Mapped Line Features

DOW Permit ID	Line Type	Purpose	Activity	Size (in)	Material	Length (LF)
KY0800273	WATER LINE: FINISHED	DISTRIBUTION	REHAB - REPLACE UNDERSIZED LINES	6.00	PVC	86,425
KY0800273	WATER LINE: FINISHED	DISTRIBUTION	REHAB - REPLACE UNDERSIZED LINES	8.00	PVC	9,753
					Total Length	96,178

Administrative Components:

☐ Planning ☐ Design ☑ Construction ☑ Management

Regionalization Components:

Public Water Systems Eliminated:

☐ this project includes the elimination of public water system(s) through merger or acquisition.

Water Treatment Plants Eliminated:

☐ This project includes the elimination of water treatment plant(s) through interconnect(s).

Supplementation of Raw Water Supply:

☐ This project includes supplementing the existing raw water supply.

Supplementation of Potable Water Supply:

☐ This project includes supplementing the existing potable water supply.

Emergency Only Water Supply:

☐ This project provides emergency only water supply.

Water Source Protection:

☐ This project includes land acquisition for water source protection.

Water Treatment Components:

☐ This project includes water treatment components

Treatment Activities:

☐ This project includes a new water treatment plant.

☐ This project includes an expansion of an existing water treatment plant.

☐ This project includes rehabilitation of an existing water treatment plant.

☐ This project includes upgrades to an existing water treatment plant.

☐ This project includes emergency power generators for treatment activities.

☐ This project includes redundant treatment processes.

Acute Public Health Risk:

☐ This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.

☐ This project includes infrastructure options to meet CT inactivation requirements.

Chronic Public Health Risk:

☐ This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment plant.

☐ This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides.

Secondary Contaminants:

☐ This project includes treatment modifications to address Secondary Contaminants.

Security:

☐ This project includes security components for water treatment facilities.

Water Distribution and Storage:

☑ This project includes water distribution and/or storage components.

Water Line Extensions:

☐ This project includes water line extension(s).

Redundancy Components:

☐ This project includes emergency power generators for distribution and/or storage activities.

Number of units provided: **0**

☐ This project includes redundant distribution and/or storage processes.

Finished Water Quality:

☐ This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).

☐ This project includes infrastructure to address inability to maintain disinfection residual.

Water Line Replacement:

☑ This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead and/or asbestos-cement (AC), and/or inadequately sized water lines.

Water Storage and Pressure Components:

☐ This project includes the construction of new water tank(s).

☐ This project includes the replacement of existing water tank(s).

☐ This project includes the rehabilitation of existing water tank(s).

☐ This project includes the construction of new pump station(s).

- ☐ This project includes new pump stations for boosting pressure .
- ☐ This project includes new pump stations for filling water tanks.

☐ This project includes the rehabilitation of existing pump station(s).

Security:

☐ This project includes security components for water distribution infrastructure.

Sustainable Infrastructure - Green Infrastructure:

Green stormwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and that maintains and restores natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scale, green infrastructure is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlands, coupled with policies such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, green infrastructure consists of site and neighborhood-specific practices, such as:

Component	Cost
☐ Bioretention	
☐ Trees	
☐ Green Roofs	
☐ Permeable Pavement	
☐ Cisterns	
Total Green Infrastructure Cost:	**$0**

There are no Green Infrastructure components specified for this project.

Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

	Component	Cost
☐	Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	
☐	Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	
☒	Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	**$765,000**
☐	Retrofitting/adding AMR capabilities or leak equipment to existing meters.	
☐	Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	
☐	Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	
☐	Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	
☐	Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	
☐	Water meter replacement with traditional water meters.*	
☒	Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	**$2,228,000**
☐	Storage tank replacement/rehabilitation to reduce water loss.*	
☐	New water efficient landscape irrigation system, where there currently is not one.*	
	Total Water Efficiency Cost:	**$2,993,000**

** Indicates a business case may be required for this item.*

This project will replace existing waterlines and help with water losses occurring in the distribution system,

Sustainable Infrastructure - Energy Efficiency:

Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projects, use energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:

	Component	Cost
☐	Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	
☐	Utility-owned or publicly-owned renewable energy projects.	
☐	Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	
☐	Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*	
☐	Pump refurbishment to optimize pump efficiency.*	
☐	Projects that result from an energy efficient related assessment.*	
☐	Projects that cost effectively eliminate pumps or pumping stations.*	
☐	Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	
☐	Upgrade of lighting to energy efficient sources.*	
☐	Automated and remote control systems (SCADA) that achieve substantial energy savings.*	
	Total Energy Efficiency Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Energy Efficiency components specified for this project.

Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

Component	Cost
☐ Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	
☐ Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	
☐ Source water protection planning (delineation, monitoring, modeling).	
☐ Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	
☐ Utility sustainability plan consistent with EPA's sustainability policy.	
☐ Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	
☐ Construction of US Building Council LEED certified buildings, or renovation of an existing building.	
☐ Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	
☐ Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	
☐ Trenchless or low impact construction technology.*	
☐ Using recycled materials or re-using materials on-site.*	
☐ Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	
☐ Projects that achieve the goals/objectives of utility asset management plans.*	
Total Environmentally Innovative Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Environmentally Innovative components specified for this project.

Sustainable Infrastructure - Asset Management:

If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Anshu Singh (Anshu.Singh@ky.gov) for CW projects

Component

Last Rate Adjustment Date: **07-07-2011** **Download Fee Schedule**

Rate Adjustment Age: **66 months**

System's monthly water bill, based on 4,000 gallons, as a percentage of MHI: **0.15%**

☐ The system(s) has a Capital Improvement Plan or similar planning document.

☐ The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging and deteriorating infrastructure.

Project Status: Approved Date Approved: 12-09-2014 Date Revised:

Drinking Water Project Profile

Legal Applicant:	**Martin County Water District**		
Project Title:	**Water Treatment Plant Clarifier Rehab**		
Project Number:	**WX21159007** View Map	Submitted By:	**BSADD**
Funding Status:	**Not Funded**	Primary County:	**Martin**
Project Status:	**Approved**	Planning Unit:	**Martin**
Project Schedule:	**0-2 Years**	Multi-County:	**No**
E-Clearinghouse SAI:	**KY201606080681**	ECH Status:	**Approved**
Applicant Entity Type:	**Water District (KRS 74)**	ADD WMC Contact:	**Tracy Wireman**
Date Approved (AWMPC):	**12-09-2014**		

Project Description:

This project will rehab the existing clarifier unit (No. 1) at the water treatment plant. The clarifier unit was constructed in the late 1960; renovated in the late 1980 and is in need of rehabilitation again.

The clarifier unit is a combination upflow clarifier and settling basin with peripheral filters. The unit has a treatment capacity of 0.7 to 1.0 MGD (depending on raw water turbidity). The unit is in the need of having the metal support bridge repainted; the clarifier rake mechanism is in the need of repair with damaged or broken supports replaced and structurally reinforced; the motor gear box and drive unit needs to be replaced. The filter underdrain is the original underdrain system with ceramic spheres, which several are missing or have worn down. Several underdrain hoppers are in poor or failing condition causing the filter media to fall into the filter chase.

Additional work will be done to relocate the filter effluent, filter drain, filter-to-waste, and effluent valves to a new valve vault similar to the existing two units that was constructed in 2010. Tube settlers will be installed in this unit similar to the two existing units. The portions or parts of the clarifier that will be rehabilitated or replaced: The metal support bridge repainted, clarifier rake mechanism replaced, motor gear box and drive united replaced. The filter underdrains will be replaced. This project will impact the finished water by improving filtration by reducing the filtration. This will not impact potential DBP formation at the water plant. This project is not needed to meet CT and/or cryptosporidium removal requirements.

This project will also replace remainder of district's water meters to radio read meters, residential and commercial.

Need for Project:
Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

The rehabilitation of this unit will allow the WTP to remove from service any of the three treatment units for repairs, cleaning, maintenance, or back washing of the filters without reducing the overall treatment plant capacity of 2.4 MGD.

Project Alternatives:

Alternate A:

Construct a new clarifier.

Alternate B:

Legal Applicant:

Entity Type:	**Water District (KRS 74)**	PSC Group ID:	**25000**
Entity Name:	**Martin County Water District**		
Web URL:			
Office EMail:	**jhammond58@bellsouth.net**		
Office Phone:	**606-298-3885** Toll Free:	Fax:	**606-298-4913**
Mail Address Line 1:	**387 E Main St**	Phys Address Line 1:	
Mail Address Line 2:		Phys Address Line 2:	
Mail City, State Zip:	**Inez, KY 41224**	Phys City, State Zip:	
Contact:	**Joe Hammond**	Auth Official:	**Kelly Calahamn**
Contact Title:	**Business Manager**	Auth Official Title:	**Judge Executive**
Contact EMail:	**jhammond58@bellsouth.net**	Auth Official EMail:	**kcallaham@suddenlinkmail.com**
Contact Phone:	**606-298-3885**	Auth Official Phone:	**606-298-2800**
Contact Cell:	**606-626-7748**	Auth Official Cell:	**606-626-5901**
Data Source:	**Kentucky Infrastructure Authority**	Date Last Modified:	**03.03.2017**

Drinking Water Project Profile

WX21159007 - Martin County Water District
Water Treatment Plant Clarifier Rehab

Project Administrator (PA) Information

Name: **Holly L Nicholas**
Title: **Project Developer**
Organization: **Kentucky Engineering Group, Pllc**
Address Line 1: **P.O. Box 1034**
Address Line 2:
City: **Versailles** State: **KY** Zip: **40383**
Phone: **859-333-9742** Fax: **859-251-4137**

Applicant Contact (AC) Information

Name: **John Mills**
Title: **General Manager**
Organization: **Martin County Water District**
Address Line 1: **Hc 69 Box 875**
Address Line 2:
City: **Inez** State: **KY** Zip: **41224**
Phone: **606-298-3885** Fax:

Project Engineer (PE) Information:

☒ This project requires a licensed Professional Engineer.

License No: **PE 24022**
PE Name: **James C. Thompson**
Phone: **859-251-4127** Fax: **859-251-4137**
E-Mail: **jthompson@kyengr.com**
Firm Name: **Kentucky Engineering Group PLLC**
Addr Line 1: **Kentucky Engineering Group PLLC**
Addr Line 2: **161 North Locust Street**
Addr Line 3:
City: **Versailles** State: **KY** Zip: **40383**
Status: **Current** Disciplinary Actions: **NO**
Issued: **01-05-2005** Expires: **06-30-2018**

Engineering Firm Information:

Permit No: **2889**
Firm Name: **Kentucky Engineering Group PLLC**
Phone: **859-251-4127** Fax: **859-251-4137**
Web URL: **http://www.kyengr.com/**
EMail: **jthompson@kyengr.com**
Addr Line 1: **161 N. Locust St.**
Addr Line 2:
City: **Versailles** State: **KY** Zip: **40383**
Status: **Current** Disciplinary Actions: **NO**
Issued: **02-19-2009** Expires: **12-31-2017**

Drinking Water Project Profile

WX21159007 - Martin County Water District
Water Treatment Plant Clarifier Rehab

Estimated Budget

Project Cost Classification:

Administrative Exp.:	**$ 39,875**
Legal Exp.:	**$ 5,000**
Land, Appraisals, Easements:	
Relocation Exp. & Payments:	
Planning:	**$ 25,000**
Engineering Fees - Design:	**$ 141,158**
Engineering Fees - Construction:	
Engineering Fees - Inspection:	**$ 89,320**
Engineering Fees - Other:	
Construction:	**$ 1,595,000**
Equipment:	
Miscellaneous:	**$ 3,500**
Contingencies:	**$ 159,500**
Total Project Cost:	**$ 2,058,353**

Construction Cost Categories:

Treatment:	**$ 1,295,000**
Transmission & Distribution:	
Source:	
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisision:	
Non-Catagorized:	**$ 300,000**
Total Construction:	**$ 1,595,000**

Total Sustainable Infrastructure Costs:

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

Project Funding Sources:

Total Project Cost: **$2,058,353**
Total Committed Funding: **$0**
Funding Gap: **$2,058,353 (Not Funded)**

☑ This project will be requesting SRF funding for fiscal year 2018.

Estimated Project Schedule:

Est. Environmental Review Submittal Date:	**02-01-2017**
Estimated Bid Date:	**01-01-2017**
Estimated Construction Start Date:	**04-01-2017**
Estimated Construction Completeion Date:	**05-01-2018**

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
KIA SRF Fund F Loan (DW)		2017	$1,011,600	Ranked	6/21/2016
KIA SRF Fund F Loan (DW)		2018	$2,058,353	Anticipated	
Total Committed					

Funding Source Notes:

The following systems are beneficiaries of this project:

✓ **KY0800273 Martin County Water District**

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:

Regional Ranking(s):
Planning Unit Ranking:
Total Points:

◯ Plans and specs have been sent to DOW.
◯ Plans and specs have been reviewed by DOW.
◯ Plans and specs have been sent to PSC.
◯ Plans and specs have been reviewed by PSC.

Drinking Water Project Profile

WX21159007 - Martin County Water District
Water Treatment Plant Clarifier Rehab

Economic, Demographic and Geographic Impacts

Economic Impacts	
Jobs Created:	
Jobs Retained:	

*Demographic Impacts (GIS Census Overlay)			
Serveable Demographic	Project Area	Included Systems	Included Utilities
Population:		12,175	12,170
Households:		5,093	5,093
MHI:		$25,814	*$25,814
MHI MOE		$6,163	*$6,163
MOE as Pct:		24.0%	24.0%
**NSRL:		2	2

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2011-2015 5Yr Estimates (Table B19013) *(for the primary system operated by the above listed beneficiary utilities).

MHI MOE = Med HH Income Margin of Error.

** NSRL (Non-Standard Rate Levels):
0 = Income above Kentucky MHI (KMHI).
1 = Income between 80% KMHI and KMHI.
2 = Income less than or equal to 80% KMHI.
- KMHI = $43,740
- 80% KHMI = $34,992

New Customers	
New Residential Customers:	
New Commercial Customers:	
New Institutional Customers:	
New Industrial Customers:	

New or Improved Service		
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:		
To Underserved Households:	3,335	
To Total Households:	3,335	
** Cost Per Household:	$617	

* GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.

** Cost per household is based on surveyed household counts, not GIS overlay values.

Geographic Impacts For Project Area

Counties
Martin

Legislative Districts	
District Name	Legislator
House 093	Chris Harris
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers

Groundwater Sensitivity Zones

HUC 10 Watersheds	
HUC Code	Watershed Name
0507020106	Rockcastle Creek-Tug Fork

Geographic Impacts For Included System(s)

Counties
Johnson
Lawrence
Martin

Legislative Districts	
District Name	Legislator
House 093	Chris Harris
House 096	Jill York
House 097	Scott Wells
Senate 30	Brandon Smith
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers

DW Specific Impacts:

- ☐ This project relates to a public health emergency.
- ☐ This project will assist a non-compliant system to achieve compliance.
- ☐ This project will assist a compliant system to meet future requirements
- ☑ This project will provide assistance not compliance related.
- ☐ This project is necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree.
- ☐ Primary system has not received any SDWA Notices of Violation within the previous state fiscal year-July through June, i.e. July 2014 – June 2015).

Project Inventory (Mapped Features):

Mapped Point Features

DOW Permit ID	Count	FeatureType	Purpose	Status	Existing Capacity	Proposed Capacity	Units
KY0800273	1	WATER TREATMENT PLANT	CLARIFIER	REHAB	2.00		MGD

Administrative Components:

☐ Planning ☑ Design ☑ Construction ☐ Management

Regionalization Components:

Public Water Systems Eliminated:

☐ this project includes the elimination of public water system(s) through merger or acquisition.

Water Treatment Plants Eliminated:

☐ This project includes the elimination of water treatment plant(s) through interconnect(s).

Supplementation of Raw Water Supply:

☐ This project includes supplementing the existing raw water supply.

Supplementation of Potable Water Supply:

☐ This project includes supplementing the existing potable water supply.

Emergency Only Water Supply:

☐ This project provides emergency only water supply.

Water Source Protection:

☐ This project includes land acquisition for water source protection.

Water Treatment Components:

☑ This project includes water treatment components

Treatment Activities:

☐ This project includes a new water treatment plant.

Proposed design capacity (MGD): **0.000**

☐ This project includes an expansion of an existing water treatment plant.

Current design capacity (MGD): **0.000**

Proposed design capacity (MGD): **0.000**

☑ This project includes rehabilitation of an existing water treatment plant.

☐ This project includes upgrades to an existing water treatment plant.

☐ This project includes emergency power generators for treatment activities.

Number of units provided: **0**

☐ This project includes redundant treatment processes.

Acute Public Health Risk:

☐ This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.

☐ This project includes infrastructure options to meet CT inactivation requirements.

Chronic Public Health Risk:

☐ This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment plant.

☐ This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides.

Secondary Contaminants:

☐ This project includes treatment modifications to address Secondary Contaminants.

Security:

☐ This project includes security components for water treatment facilities.

Water Distribution and Storage:

☐ This project includes water distribution and/or storage components.

Water Line Extensions:

☐ This project includes water line extension(s).

Redundancy Components:

☐ This project includes emergency power generators for distribution and/or storage activities.

☐ This project includes redundant distribution and/or storage processes.

Finished Water Quality:

- ☐ This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).
- ☐ This project includes infrastructure to address inability to maintain disinfection residual.

Water Line Replacement:

- ☐ This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead and/or asbestos-cement (AC), and/or inadequately sized water lines.

Water Storage and Pressure Components:

- ☐ This project includes the construction of new water tank(s).
- ☐ This project includes the replacement of existing water tank(s).
- ☐ This project includes the rehabilitation of existing water tank(s).
- ☐ This project includes the construction of new pump station(s).
- ☐ This project includes the rehabilitation of existing pump station(s).

Security:

- ☐ This project includes security components for water distribution infrastructure.

Sustainable Infrastructure - Green Infrastructure:

Green stormwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and that maintains and restores natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scale, green infrastructure is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlands, coupled with policies such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, green infrastructure consists of site and neighborhood-specific practices, such as:

Component	Cost
☐ Bioretention	$0
☐ Trees	$0
☐ Green Roofs	$0
☐ Permeable Pavement	$0
☐ Cisterns	$0
Total Green Infrastructure Cost:	**$0**

There are no Green Infrastructure components specified for this project.

Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

Component	Cost
☐ Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	$0
☐ Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	$0
☐ Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	$0
☐ Retrofitting/adding AMR capabilities or leak equipment to existing meters.	$0
☐ Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	$0
☐ Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	$0
☐ Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	$0
☐ Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	$0
☐ Water meter replacement with traditional water meters.*	$0
☐ Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	$0
☐ Storage tank replacement/rehabilitation to reduce water loss.*	$0
☐ New water efficient landscape irrigation system, where there currently is not one.*	$0
Total Water Efficiency Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Water Efficiency components specified for this project.

Sustainable Infrastructure - Energy Efficiency:

Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projects, use energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:

Component	Cost
☐ Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	$0
☐ Utility-owned or publicly-owned renewable energy projects.	$0
☐ Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	$0
☐ Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*	$0
☐ Pump refurbishment to optimize pump efficiency.*	$0
☐ Projects that result from an energy efficient related assessment.*	$0
☐ Projects that cost effectively eliminate pumps or pumping stations.*	$0
☐ Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	$0
☐ Upgrade of lighting to energy efficient sources.*	$0
☐ Automated and remote control systems (SCADA) that achieve substantial energy savings.*	$0
Total Energy Efficiency Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Energy Efficiency components specified for this project.

Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

	Component	Cost
☐	Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	$0
☐	Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	$0
☐	Source water protection planning (delineation, monitoring, modeling).	$0
☐	Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	$0
☐	Utility sustainability plan consistent with EPA's sustainability policy.	$0
☐	Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	$0
☐	Construction of US Building Council LEED certified buildings, or renovation of an existing building.	$0
☐	Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	$0
☐	Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	$0
☐	Trenchless or low impact construction technology.*	$0
☐	Using recycled materials or re-using materials on-site.*	$0
☐	Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	$0
☐	Projects that achieve the goals/objectives of utility asset management plans.*	$0
	Total Environmentally Innovative Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Environmentally Innovative components specified for this project.

Sustainable Infrastructure - Asset Management:

If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Anshu Singh (Anshu.Singh@ky.gov) for CW projects

Component

Last Rate Adjustment Date: **07-07-2011** **Download Fee Schedule**

Rate Adjustment Age: **66 months**

System's monthly water bill, based on 4,000 gallons, as a percentage of MHI: **0.15%**

☐ The system(s) has a Capital Improvement Plan or similar planning document.

☐ The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging and deteriorating infrastructure.

Project Status: Approved Date Approved: 12-09-2014 Date Revised:

Drinking Water Project Profile

Legal Applicant:	**Martin County Water District**		
Project Title:	**Water Intake Upgrades**		
Project Number:	**WX21159009** View Map	Submitted By:	**BSADD**
Funding Status:	**Not Funded**	Primary County:	**Martin**
Project Status:	**Approved**	Planning Unit:	**Martin**
Project Schedule:	**0-2 Years**	Multi-County:	**No**
E-Clearinghouse SAI:		ECH Status:	
Applicant Entity Type:	**Water District (KRS 74)**	ADD WMC Contact:	**Tracy Wireman**
Date Approved (AWMPC):	**12-04-2015**		

Project Description:

This project will change out the current configuration of the raw water intake. The intake currently consist of vertical turbine pumps with extremely long shafts that vibrate excessively when the raw water is pumped. When the excessive vibration reaches a certain point, the pumps shut off because of the rapid vibrations. At this point the failure has caused damage to the bearings, bearing retainers, and shafts resulting in these parts having to be replaced. Also, the pump motors are installed below the 100-year floodplain and need to be raised. Raising the pump motors with the current configuration would only increase the length of pump column and shaft, only to make the vibration problem worst.

This project will install submersible pumps and a new river intake structure and screen with the ability to more efficiently blow off the accumulation of sediment that occurs around the intake screen. The existing raw water meter will be replaced with one that will allow for use in temporary flooded situations.

The VFD's will be relocated to the existing building out of the floodplain.

Need for Project:
Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

The existing configuration results in the pumps shutting off prematurely due to the rapid vibration of the shafts. Failure of a pump results in the pumping of raw water taking much longer than it should with only one pump and results in not having any back-up pump. Sediment buildup around the existing intake also restricts the amount of raw water entering the intake wet well and the volume that can be withdrawn from the river.

Project Alternatives:

Alternate A:

Change the pumps and valves, but not the intake.

Alternate B:

Move the VFD's out of the floodplain but do nothing else.

Legal Applicant:

Entity Type:	**Water District (KRS 74)**	PSC Group ID:	**25000**
Entity Name:	**Martin County Water District**		
Web URL:			
Office EMail:	**jhammond58@bellsouth.net**		
Office Phone:	**606-298-3885** Toll Free:	Fax:	**606-298-4913**
Mail Address Line 1:	**387 E Main St**	Phys Address Line 1:	
Mail Address Line 2:		Phys Address Line 2:	
Mail City, State Zip:	**Inez, KY 41224**	Phys City, State Zip:	
Contact:	**Joe Hammond**	Auth Official:	**Kelly Calahamn**
Contact Title:	**Business Manager**	Auth Official Title:	**Judge Executive**
Contact EMail:	**jhammond58@bellsouth.net**	Auth Official EMail:	**kcallaham@suddenlinkmail.com**
Contact Phone:	**606-298-3885**	Auth Official Phone:	**606-298-2800**
Contact Cell:	**606-626-7748**	Auth Official Cell:	**606-626-5901**
Data Source:	**Kentucky Infrastructure Authority**	Date Last Modified:	**03.03.2017**

Drinking Water Project Profile

WX21159009 - Martin County Water District
Water Intake Upgrades

Project Administrator (PA) Information

Name: **Holly L Nicholas**
Title: **Project Developer**
Organization: **Kentucky Engineering Group, Pllc**
Address Line 1: **P.O. Box 1034**
Address Line 2:
City: **Versailles** State: **KY** Zip: **40383**
Phone: **859-333-9742** Fax: **859-251-4137**

Applicant Contact (AC) Information

Name: **Joe Hammond**
Title: **Business Manager**
Organization: **Martin County Utilities**
Address Line 1: **38 7 E Main St**
Address Line 2:
City: **Inez** State: **KY** Zip: **41224**
Phone: **606-626-7748** Fax: **606-298-4913**

Project Engineer (PE) Information:

☒ This project requires a licensed Professional Engineer.

License No: **PE 24022**
PE Name: **James C. Thompson**
Phone: **859-251-4127** Fax: **859-251-4137**
E-Mail: **jthompson@kyengr.com**
Firm Name: **Kentucky Engineering Group PLLC**
Addr Line 1: **Kentucky Engineering Group PLLC**
Addr Line 2: **161 North Locust Street**
Addr Line 3:
City: **Versailles** State: **KY** Zip: **40383**
Status: **Current** Disciplinary Actions: **NO**
Issued: **01-05-2005** Expires: **06-30-2018**

Engineering Firm Information:

Permit No: **2889**
Firm Name: **Kentucky Engineering Group PLLC**
Phone: **859-251-4127** Fax: **859-251-4137**
Web URL: **http://www.kyengr.com/**
EMail: **jthompson@kyengr.com**
Addr Line 1: **161 N. Locust St.**
Addr Line 2:
City: **Versailles** State: **KY** Zip: **40383**
Status: **Current** Disciplinary Actions: **NO**
Issued: **02-19-2009** Expires: **12-31-2017**

Drinking Water Project Profile

WX21159009 - Martin County Water District
Water Intake Upgrades

Estimated Budget

Project Cost Classification:

Administrative Exp.:	$ 10,000
Legal Exp.:	
Land, Appraisals, Easements:	
Relocation Exp. & Payments:	
Planning:	
Engineering Fees - Design:	$ 113,600
Engineering Fees - Construction:	$ 28,420
Engineering Fees - Inspection:	$ 86,400
Engineering Fees - Other:	$ 5,000
Construction:	$ 1,800,000
Equipment:	
Miscellaneous:	
Contingencies:	$ 180,000
Total Project Cost:	**$ 2,223,420**

Construction Cost Categories:

Treatment:	
Transmission & Distribution:	
Source:	$ 1,800,000
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Catagorized:	
Total Construction:	**$ 1,800,000**

Total Sustainable Infrastructure Costs:

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

Project Funding Sources:

Total Project Cost: **$2,223,420**
Total Committed Funding: **$0**
Funding Gap: **$2,223,420 (Not Funded)**

☐ This project will be requesting SRF funding for fiscal year 2018.

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
ARC		2016	$300,000	Anticipated	
RD Loan		2017	$1,300,000	Anticipated	
RD Grant		2017	$618,420	Anticipated	
Total Committed					

Funding Source Notes:

Estimated Project Schedule:

Est. Environmental Review Submittal Date:
Estimated Bid Date:
Estimated Construction Start Date:
Estimated Construction Completeion Date:

The following systems are beneficiaries of this project:

✓ **KY0800273 Martin County Water District**

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:
Regional Ranking(s):
Planning Unit Ranking:
Total Points:

○ Plans and specs have been sent to DOW.
○ Plans and specs have been reviewed by DOW.
○ Plans and specs have been sent to PSC.
○ Plans and specs have been reviewed by PSC.

Drinking Water Project Profile

WX21159009 - Martin County Water District
Water Intake Upgrades

Economic, Demographic and Geographic Impacts

Economic Impacts	
Jobs Created:	
Jobs Retained:	

*Demographic Impacts (GIS Census Overlay)			
Serviceable Demographic	Project Area	Included Systems	Included Utilities
Population:		12,175	12,170
Households:		5,093	5,093
MHI:		$25,814	*$25,814
MHI MOE		$6,163	*$6,163
MOE as Pct:		24.0%	24.0%
**NSRL:		2	2

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2011-2015 5Yr Estimates (Table B19013) *(for the primary system operated by the above listed beneficiary utilities).

MHI MOE = Med HH Income Margin of Error.

** NSRL (Non-Standard Rate Levels):
0 = Income above Kentucky MHI (KMHI).
1 = Income between 80% KMHI and KMHI.
2 = Income less than or equal to 80% KMHI.
- KMHI = $43,740
- 80% KHMI = $34,992

New Customers	
New Residential Customers:	
New Commercial Customers:	
New Institutional Customers:	
New Industrial Customers:	

New or Improved Service		
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:		
To Underserved Households:	3,335	
To Total Households:	3,335	
** Cost Per Household:	$667	

* GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.

** Cost per household is based on surveyed household counts, not GIS overlay values.

Geographic Impacts For Project Area

Counties

Legislative Districts

District Name	Legislator

Groundwater Sensitivity Zones

HUC 10 Watersheds

HUC Code	Watershed Name

Geographic Impacts For Included System(s)

Counties
Johnson
Lawrence
Martin

Legislative Districts

District Name	Legislator
House 093	Chris Harris
House 096	Jill York
House 097	Scott Wells
Senate 30	Brandon Smith
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers

DW Specific Impacts:

- ☑ This project relates to a public health emergency.
- ☐ This project will assist a non-compliant system to achieve compliance.
- ☑ This project will assist a compliant system to meet future requirements
- ☑ This project will provide assistance not compliance related.
- ☐ This project is necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree.
- ☐ Primary system has not received any SDWA Notices of Violation within the previous state fiscal year-July through June, i.e. July 2014 – June 2015).

Project Inventory (Mapped Features):

Mapped Point Features

DOW Permit ID	Count	FeatureType	Purpose	Status	Existing Capacity	Proposed Capacity	Units
KY0800273	1	SURFACE SOURCE	UPGRADE WATER INTAKE	REHAB			EA

Administrative Components:

☐ Planning ☑ Design ☑ Construction ☐ Management

Regionalization Components:

Public Water Systems Eliminated:

☐ this project includes the elimination of public water system(s) through merger or acquisition.

Water Treatment Plants Eliminated:

☐ This project includes the elimination of water treatment plant(s) through interconnect(s).

Supplementation of Raw Water Supply:

☐ This project includes supplementing the existing raw water supply.

Supplementation of Potable Water Supply:

☐ This project includes supplementing the existing potable water supply.

Emergency Only Water Supply:

☐ This project provides emergency only water supply.

Water Source Protection:

☐ This project includes land acquisition for water source protection.

Water Treatment Components:

☐ This project includes water treatment components

Treatment Activities:

☐ This project includes a new water treatment plant.

☐ This project includes an expansion of an existing water treatment plant.

☐ This project includes rehabilitation of an existing water treatment plant.

☐ This project includes upgrades to an existing water treatment plant.

☐ This project includes emergency power generators for treatment activities.

☐ This project includes redundant treatment processes.

Acute Public Health Risk:

☐ This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.

☐ This project includes infrastructure options to meet CT inactivation requirements.

Chronic Public Health Risk:

☐ This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment plant.

☐ This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides.

Secondary Contaminants:

☐ This project includes treatment modifications to address Secondary Contaminants.

Security:

☐ This project includes security components for water treatment facilities.

Water Distribution and Storage:

☐ This project includes water distribution and/or storage components.

Water Line Extensions:

☐ This project includes water line extension(s).

Redundancy Components:

☐ This project includes emergency power generators for distribution and/or storage activities.

☐ This project includes redundant distribution and/or storage processes.

Finished Water Quality:

☐ This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).

☐ This project includes infrastructure to address inability to maintain disinfection residual.

Water Line Replacement:

☐ This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead and/or asbestos-cement (AC), and/or inadequately sized water lines.

Water Storage and Pressure Components:

☐ This project includes the construction of new water tank(s).

☐ This project includes the replacement of existing water tank(s).

☐ This project includes the rehabilitation of existing water tank(s).

☐ This project includes the construction of new pump station(s).

☐ This project includes the rehabilitation of existing pump station(s).

Security:

☐ This project includes security components for water distribution infrastructure.

Sustainable Infrastructure - Green Infrastructure:

Green stormwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and that maintains and restores natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scale, green infrastructure is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlands, coupled with policies such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, green infrastructure consists of site and neighborhood-specific practices, such as:

Component	Cost
☐ Bioretention	$0
☐ Trees	$0
☐ Green Roofs	$0
☐ Permeable Pavement	$0
☐ Cisterns	$0
Total Green Infrastructure Cost:	**$0**

There are no Green Infrastructure components specified for this project.

Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

Component	Cost
☐ Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	$0
☐ Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	$0
☐ Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	$0
☐ Retrofitting/adding AMR capabilities or leak equipment to existing meters.	$0
☐ Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	$0
☐ Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	$0
☐ Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	$0
☐ Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	$0
☐ Water meter replacement with traditional water meters.*	$0
☐ Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	$0
☐ Storage tank replacement/rehabilitation to reduce water loss.*	$0
☐ New water efficient landscape irrigation system, where there currently is not one.*	$0
Total Water Efficiency Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Water Efficiency components specified for this project.

Sustainable Infrastructure - Energy Efficiency:

Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projects, use energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:

Component	Cost
☐ Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	$0
☐ Utility-owned or publicly-owned renewable energy projects.	$0
☐ Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	$0
☐ Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*	$0
☐ Pump refurbishment to optimize pump efficiency.*	$0
☐ Projects that result from an energy efficient related assessment.*	$0
☐ Projects that cost effectively eliminate pumps or pumping stations.*	$0
☐ Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	$0
☐ Upgrade of lighting to energy efficient sources.*	$0
☐ Automated and remote control systems (SCADA) that achieve substantial energy savings.*	$0
Total Energy Efficiency Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Energy Efficiency components specified for this project.

Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

Component	Cost
☐ Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	$0
☐ Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	$0
☐ Source water protection planning (delineation, monitoring, modeling).	$0
☐ Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	$0
☐ Utility sustainability plan consistent with EPA's sustainability policy.	$0
☐ Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	$0
☐ Construction of US Building Council LEED certified buildings, or renovation of an existing building.	$0
☐ Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	$0
☐ Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	$0
☐ Trenchless or low impact construction technology.*	$0
☐ Using recycled materials or re-using materials on-site.*	$0
☐ Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	$0
☐ Projects that achieve the goals/objectives of utility asset management plans.*	$0
Total Environmentally Innovative Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Environmentally Innovative components specified for this project.

Sustainable Infrastructure - Asset Management:

If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Anshu Singh (Anshu.Singh@ky.gov) for CW projects

Component

Last Rate Adjustment Date: **07-07-2011** **Download Fee Schedule**

Rate Adjustment Age: **66 months**

System's monthly water bill, based on 4,000 gallons, as a percentage of MHI: **0.15%**

☐ The system(s) has a Capital Improvement Plan or similar planning document.

☐ The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging and deteriorating infrastructure.

Project Status: Approved Date Approved: 12-04-2015 Date Revised:

Drinking Water Project Profile

Legal Applicant:	**Martin County Water District**		
Project Title:	**Water Treatment Plant Clarifer and Disinfection byproduct reduction**		
Project Number:	**WX21159016** View Map	Submitted By:	**BSADD**
Funding Status:	**Not Funded**	Primary County:	**Martin**
Project Status:	**Pending**	Planning Unit:	**Martin**
Project Schedule:	**0-2 Years**	Multi-County:	**No**
E-Clearinghouse SAI:		ECH Status:	
Applicant Entity Type:	**Water District (KRS 74)**	ADD WMC Contact:	**Tracy Wireman**
Date Approved (AWMPC):			

Project Description:

This project will includes clear well aeration and diffusion pipe repair along with a Clarifier cover and a filter at the reservoir intake. This project will improve the water quality by installing clearwell aeration, clarifier cover, filter at reservoir intake and repair clearwell diffusion pipe.

Need for Project:
Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

This project will reduce the disinfection byproducts

Project Alternatives:

Alternate A:

Distribution aeration

Alternate B:

Legal Applicant:

Entity Type:	**Water District (KRS 74)**	PSC Group ID:	**25000**
Entity Name:	**Martin County Water District**		
Web URL:			
Office EMail:	**jhammond58@bellsouth.net**		
Office Phone:	**606-298-3885** Toll Free:	Fax:	**606-298-4913**
Mail Address Line 1:	**387 E Main St**	Phys Address Line 1:	
Mail Address Line 2:		Phys Address Line 2:	
Mail City, State Zip:	**Inez, KY 41224**	Phys City, State Zip:	
Contact:	**Joe Hammond**	Auth Official:	**Kelly Calahamn**
Contact Title:	**Business Manager**	Auth Official Title:	**Judge Executive**
Contact EMail:	**jhammond58@bellsouth.net**	Auth Official EMail:	**kcallaham@suddenlinkmail.com**
Contact Phone:	**606-298-3885**	Auth Official Phone:	**606-298-2800**
Contact Cell:	**606-626-7748**	Auth Official Cell:	**606-626-5901**
Data Source:	**Kentucky Infrastructure Authority**	Date Last Modified:	**03.03.2017**

Drinking Water Project Profile

WX21159016 - Martin County Water District
Water Treatment Plant Clarifer and Disinfection byproduct reduction

Project Administrator (PA) Information

Name: **Holly L Nicholas**
Title: **Project Developer**
Organization: **Kentucky Engineering Group, Pllc**
Address Line 1: **P.O. Box 1034**
Address Line 2:
City: **Versailles** State: **KY** Zip: **40383**
Phone: **859-333-9742** Fax: **859-251-4137**

Applicant Contact (AC) Information

Name: **Joe Hammond**
Title: **Business Manager**
Organization: **Martin County Utilities**
Address Line 1: **38 7 E Main St**
Address Line 2:
City: **Inez** State: **KY** Zip: **41224**
Phone: **606-626-7748** Fax: **606-298-4913**

Project Engineer (PE) Information:

☒ This project requires a licensed Professional Engineer.

License No: **PE 24022**
PE Name: **James C. Thompson**
Phone: **859-251-4127** Fax: **859-251-4137**
E-Mail: **jthompson@kyengr.com**
Firm Name: **Kentucky Engineering Group PLLC**
Addr Line 1: **Kentucky Engineering Group PLLC**
Addr Line 2: **161 North Locust Street**
Addr Line 3:
City: **Versailles** State: **KY** Zip: **40383**
Status: **Current** Disciplinary Actions: **NO**
Issued: **01-05-2005** Expires: **06-30-2018**

Engineering Firm Information:

Permit No: **2889**
Firm Name: **Kentucky Engineering Group PLLC**
Phone: **859-251-4127** Fax: **859-251-4137**
Web URL: **http://www.kyengr.com/**
EMail: **jthompson@kyengr.com**
Addr Line 1: **161 N. Locust St.**
Addr Line 2:
City: **Versailles** State: **KY** Zip: **40383**
Status: **Current** Disciplinary Actions: **NO**
Issued: **02-19-2009** Expires: **12-31-2017**

Drinking Water Project Profile

WX21159016 - Martin County Water District
Water Treatment Plant Clarifer and Disinfection byproduct reduction

Estimated Budget

Project Cost Classification:

Administrative Exp.:	**$ 10,000**
Legal Exp.:	**$ 10,000**
Land, Appraisals, Easements:	
Relocation Exp. & Payments:	
Planning:	**$ 10,000**
Engineering Fees - Design:	**$ 26,000**
Engineering Fees - Construction:	**$ 30,000**
Engineering Fees - Inspection:	**$ 15,000**
Engineering Fees - Other:	
Construction:	**$ 235,000**
Equipment:	
Miscellaneous:	
Contingencies:	**$ 23,500**
Total Project Cost:	**$ 359,500**

Construction Cost Categories:

Treatment:	**$ 235,000**
Transmission & Distribution:	
Source:	
Storage:	
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Catagorized:	
Total Construction:	**$ 235,000**

Total Sustainable Infrastructure Costs:

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

Project Funding Sources:

Total Project Cost: **$359,500**
Total Committed Funding: **$0**
Funding Gap: **$359,500 (Not Funded)**

☐ This project will be requesting SRF funding for fiscal year 2018.

Funding Source	Loan or Grant ID	Fiscal Year	Amount	Status	Applicable Date
Local			$359,500	Anticipated	
Total Committed					

Funding Source Notes:

Estimated Project Schedule:

Est. Environmental Review Submittal Date:
Estimated Bid Date:
Estimated Construction Start Date:
Estimated Construction Completeion Date:

The following systems are beneficiaries of this project:

✓ **KY0800273 Martin County Water District**

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:
Regional Ranking(s):
Planning Unit Ranking:
Total Points:

- ◯ Plans and specs have been sent to DOW.
- ◯ Plans and specs have been reviewed by DOW.
- ◯ Plans and specs have been sent to PSC.
- ◯ Plans and specs have been reviewed by PSC.

Economic, Demographic and Geographic Impacts

Economic Impacts

Drinking Water Project Profile

WX21159016 - Martin County Water District

Water Treatment Plant Clarifer and Disinfection byproduct reduction

Jobs Created:	
Jobs Retained:	

*Demographic Impacts (GIS Census Overlay)			
Servceable Demographic	Project Area	Included Systems	Included Utilities
Population:		12,175	12,170
Households:		5,093	5,093
MHI:		$25,814	*$25,814
MHI MOE		$6,163	*$6,163
MOE as Pct:		24.0%	24.0%
**NSRL:		2	2

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset.

MHI Source is from the American Community Survey 2011-2015 5Yr Estimates (Table B19013) *(for the primary system operated by the above listed beneficiary utilities).

MHI MOE = Med HH Income Margin of Error.

** NSRL (Non-Standard Rate Levels):
0 = Income above Kentucky MHI (KMHI).
1 = Income between 80% KMHI and KMHI.
2 = Income less than or equal to 80% KMHI.
- KMHI = $43,740
- 80% KHMI = $34,992

New Customers	
New Residential Customers:	
New Commercial Customers:	
New Institutional Customers:	
New Industrial Customers:	

New or Improved Service		
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:		
To Underserved Households:	3,500	
To Total Households:	3,500	
** Cost Per Household:	$103	

* GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.

** Cost per household is based on surveyed household counts, not GIS overlay values.

Geographic Impacts For Project Area

Counties

Legislative Districts

District Name	Legislator

Groundwater Sensitivity Zones

HUC 10 Watersheds

HUC Code	Watershed Name

Geographic Impacts For Included System(s)

Counties
Johnson
Lawrence
Martin

Legislative Districts

District Name	Legislator
House 093	Chris Harris
House 096	Jill York
House 097	Scott Wells
Senate 30	Brandon Smith
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers

DW Specific Impacts:

- ☐ This project relates to a public health emergency.
- ☐ This project will assist a non-compliant system to achieve compliance.
- ☐ This project will assist a compliant system to meet future requirements
- ☐ This project will provide assistance not compliance related.
- ☐ This project is necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree.
- ☐ Primary system has not received any SDWA Notices of Violation within the previous state fiscal year-July through June, i.e. July 2014 – June 2015).

Project Inventory (Mapped Features):

Administrative Components:

☑ Planning ☑ Design ☑ Construction ☐ Management

Regionalization Components:

Public Water Systems Eliminated:

☐ this project includes the elimination of public water system(s) through merger or acquisition.

Water Treatment Plants Eliminated:

☐ This project includes the elimination of water treatment plant(s) through interconnect(s).

Supplementation of Raw Water Supply:

☐ This project includes supplementing the existing raw water supply.

Supplementation of Potable Water Supply:

☐ This project includes supplementing the existing potable water supply.

Emergency Only Water Supply:

☐ This project provides emergency only water supply.

Water Source Protection:

☐ This project includes land acquisition for water source protection.

Water Treatment Components:

☐ This project includes water treatment components

Treatment Activities:

☐ This project includes a new water treatment plant.

☐ This project includes an expansion of an existing water treatment plant.

☐ This project includes rehabilitation of an existing water treatment plant.

☐ This project includes upgrades to an existing water treatment plant.

☐ This project includes emergency power generators for treatment activities.

☐ This project includes redundant treatment processes.

Acute Public Health Risk:

☐ This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.

☑ This project includes infrastructure options to meet CT inactivation requirements.

This project will enhance the CT capabilities

Chronic Public Health Risk:

☐ This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment plant.

☐ This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides.

Secondary Contaminants:

☐ This project includes treatment modifications to address Secondary Contaminants.

Security:

☐ This project includes security components for water treatment facilities.

Water Distribution and Storage:

☐ This project includes water distribution and/or storage components.

Water Line Extensions:

☐ This project includes water line extension(s).

Redundancy Components:

☐ This project includes emergency power generators for distribution and/or storage activities.

☐ This project includes redundant distribution and/or storage processes.

Finished Water Quality:

☐ This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).

☐ This project includes infrastructure to address inability to maintain disinfection residual.

Water Line Replacement:

☐ This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead and/or asbestos-cement (AC), and/or inadequately sized water lines.

Water Storage and Pressure Components:

☐ This project includes the construction of new water tank(s).

☐ This project includes the replacement of existing water tank(s).

☐ This project includes the rehabilitation of existing water tank(s).

☐ This project includes the construction of new pump station(s).

☐ This project includes the rehabilitation of existing pump station(s).

Security:

☐ This project includes security components for water distribution infrastructure.

Sustainable Infrastructure - Green Infrastructure:

Green stormwater infrastructure includes a wide array of practices at multiple scales that manage wet weather and that maintains and restores natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scale, green infrastructure is the preservation and restoration of natural landscape features, such as forests, floodplains, and wetlands, coupled with policies such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, green infrastructure consists of site and neighborhood-specific practices, such as:

Component	Cost
☐ Bioretention	$0
☐ Trees	$0
☐ Green Roofs	$0
☐ Permeable Pavement	$0
☐ Cisterns	$0
Total Green Infrastructure Cost:	**$0**

There are no Green Infrastructure components specified for this project.

Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

Component	Cost
☐ Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	$0
☐ Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	$0
☐ Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	$0
☐ Retrofitting/adding AMR capabilities or leak equipment to existing meters.	$0
☐ Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	$0
☐ Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	$0
☐ Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	$0
☐ Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	$0
☐ Water meter replacement with traditional water meters.*	$0
☐ Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	$0
☐ Storage tank replacement/rehabilitation to reduce water loss.*	$0
☐ New water efficient landscape irrigation system, where there currently is not one.*	$0
Total Water Efficiency Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Water Efficiency components specified for this project.

Sustainable Infrastructure - Energy Efficiency:

Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projects, use energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:

Component	Cost
☐ Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	$0
☐ Utility-owned or publicly-owned renewable energy projects.	$0
☐ Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	$0
☐ Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs).*	$0
☐ Pump refurbishment to optimize pump efficiency.*	$0
☐ Projects that result from an energy efficient related assessment.*	$0
☐ Projects that cost effectively eliminate pumps or pumping stations.*	$0
☐ Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	$0
☐ Upgrade of lighting to energy efficient sources.*	$0
☐ Automated and remote control systems (SCADA) that achieve substantial energy savings.*	$0
Total Energy Efficiency Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Energy Efficiency components specified for this project.

Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

	Component	Cost
☐	Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	$0
☐	Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	$0
☐	Source water protection planning (delineation, monitoring, modeling).	$0
☐	Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	$0
☐	Utility sustainability plan consistent with EPA's sustainability policy.	$0
☐	Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	$0
☐	Construction of US Building Council LEED certified buildings, or renovation of an existing building.	$0
☐	Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	$0
☐	Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	$0
☐	Trenchless or low impact construction technology.*	$0
☐	Using recycled materials or re-using materials on-site.*	$0
☐	Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	$0
☐	Projects that achieve the goals/objectives of utility asset management plans.*	$0
	Total Environmentally Innovative Cost:	**$0**

** Indicates a business case may be required for this item.*

There are no Environmentally Innovative components specified for this project.

Sustainable Infrastructure - Asset Management:

If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Anshu Singh (Anshu.Singh@ky.gov) for CW projects

Component

Last Rate Adjustment Date: **07-07-2011** **Download Fee Schedule**

Rate Adjustment Age: **66 months**

System's monthly water bill, based on 4,000 gallons, as a percentage of MHI: **0.15%**

☐ The system(s) has a Capital Improvement Plan or similar planning document.

☐ The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging and deteriorating infrastructure.

Project Status: Pending | Date Approved: | Date Revised: