

BRIAN CUMBO

ATTORNEY AT LAW

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ADMITTED IN KY AND WV

RECEIVED

MAR 9 2017

Public Service Commission

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,

in 6 **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 DISTRICT PURSUANT TO KRS 278.280

CASE NO. 2016-00142

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

Case No. 2016-00142

CERTIFICATE OF SERVICE

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

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

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BRIAN CUMBO

Exhibit #1 Water Loss Report for 2016

ę

			Annual	Water I	Jse Rep	ort		
Water Ut	ility:	Martin C	ounty Wa	ter Distr	ict			
Year:	2016	2016						
							GALLONS	
LINE #	ITEM						(Omit 000's)	%
1	WATER P	RODUCED	or PURCHA	ASED				
2	Water Proc	luced					696.292	99%
3	Water Purc	chased	TOTAL	PROPULO		DOLLAGED	10.341	1%
4			TOTAL	PRODUCE	D AND PU	RCHASED	706.633	
	WATER SO	OLD						
5	Residentia						197.826	89%
6	Commercia	al					0.000	0%
7	Industrial						0.000	0%
8	Bulk Loadin	ng Stations					0.000	0%
9	Wholesale						0.000	0%
10	Other Sale	s (explain)	Honey Brar	nch			24.011	11%
11							221 837	31%
12				ΤΟΤΑ	L WATER N	NOT SOLD	484,796	69%
							10 111 00	
	BREAKDO	WN OF UN	SOLD WAT	TER USED	1			
13	Utility and/o	or Water Tr	eatment Pla	nt			5.631	1%
14	Wastewate	r Plant			Estimated		0.000	0%
15	System Flu	shing			Estimated		30.050	4%
16	Fire Depart	tment			Estimated		3.725	1%
17	Other (exp	ain)	Leaks Not	Repaired 4	74 GPM		135.050	19%
				TOTAL UN	SOLD WAT	TER USED	174.456	25%
10	BREAKDO		ATER LOS	Г	E ative at a d		0.000	00/
10	Line Brook	lows			Estimated		0.000	0%
20	Other Loss	5			Estimated		258 616	270/
20	Other Loss						236.010	5770
				TOTAL UN	SOLD WA	TER LOST	310.340	44%
	"OTHER L	OSS" FLO	W RATE CA		DN:			
21					"(Other Loss"	258.616	
22					% "C	Other Loss"	37%	
23				Nu	mber of Day	s in Period	366	
24		"	Other Loss"	per Day (1	,000's gallor	ns per Day)	0.707	
25				"Other L	oss" per Mir	ute (GPM)	0.491	
		Ken	tucki	2		CONTROL OF		
		UNBR	DLED SPIRIT					

			Monthly	Wate	r Use Re	port		
Water Ut	ility:	Martin C	ounty Wa	ater Dist	trict			
For the N	Ionth of:	January				Year:	2016	
							GALLONS	
LINE #	TIEM						(Omit 000's)	%
1	WATER P	RODUCED	or PURCH	ASED				
2	Water Pro	duced					58.557	96%
3	Water Pur	chased					2.528	4%
4			TOTAL	. PRODUC	CED AND PU	JRCHASED	61.085	
	WATER S	OLD						
5	Residentia	l					19.109	92%
6	Commerci	al					0.000	0%
7	Industrial							0%
8	Bulk Loadi	ng Stations						0%
9	Wholesale							0%
10	Other Sale	es (explain)	Honey Bra	nch Indus	trial Park		1.697	8%
11					TOTAL WA	TER SOLD	20.806	34%
12				тот	AL WATER	NOT SOLD	40.279	66%
	BREAKDO	OWN OF UN	SOLD WA	TER USE	D			
13	Utility and/	or Water Tr	eatment Pla	ant			0.503	1%
14	Wastewate	er Plant					0.000	0%
15	System Flu	ushing				Estimated	2.500	4%
16	Fire Depar	tment				Estimated	0.350	1%
1/	Other (exp	lain)	Leaks not	repaired	336 GPM	Estimated	12.960	21%
				TOTAL U	JNSOLD WA	TER USED	16.313	27%
	DDEAKD			.				
10	BREAKD	OWN OF W	ATER LUS				0.000	00/
10	Line Brook	nows					0.000	0%
19	Other Loop	.5					0.900	15%
20	Other Loss	>			×		15.000	2370
					TOTAL WA	TER LOST	23.966	39%
	"OTHER L	OSS" FLO	W RATE C	ALCULAT	ION:			
21					"	Other Loss"	15.000	
22					% "	Other Loss"	25%	
23				N	umber of Da	ys in Period	31	
24	_	"	Other Loss"	per Day (1,000's gallo	ns per Day)	0.484	
25	-			"Other	Loss" per Mi	nute (GPM)	0.336	
		Ken			(
		This form	approved b	y: EPPC/[DEP/DOW, P	Y PSC, KR	WA	

		ont	hly Wat	er Use F	Report			
Water Ut	ility:	Martin County Water	District					
Trater of	incy.	martin obuilty Water	District					
For the M	Ionth of:	February				Year	2016	
	TEM						GALLONS	~
LINE #							(Omit 000 s)	%
2	Water Pro	duced	J				56 059	069/
3	Water Pur	chased	Kermit Wa	tor			2 430	90%
4	vvator i ui		TOTAL	PRODUCE		RCHASED	58 488	4 /0
	_					INCHINCLE	00.400	
	WATER S	OLD						
5	Residentia	al					14.629	95%
6	Commerci	al					0.000	0%
7	Industrial							0%
8	Bulk Load	ing Stations						0%
9	Wholesale	•						0%
10	Other Sale	es (explain)	Honey Bra	nch			0.769	5%
44							15.000	0.001
11						TER SOLD	15.398	26%
12		T		IUIA	LWATER	NUT SOLD	43.090	74%
	BREAKD	WN OF LINSOLD WATER	USED					
13	Utility and	or Water Treatment Plant	UULD				0.482	1%
14	Wastewat	er Plant					0.402	0%
15	System FI	ushina				Estimated	2 500	4%
16	Fire Department Estimate		Estimated	0.250	0%			
17	Other (exp	olain)	Leaks not	repaired 287	GPM	Estimated	12.398	21%
		1		TOTAL UN	SOLD WA	TER USED	15.630	27%
	BREAKD	OWN OF WATER LOST				1		
18	Tank Over	flows					0.000	0%
19	Line Break	(S				Estimated	2.858	5%
20	Other Loss	6	1			Estimated	24.602	42%
				т		TERLOST	27 460	170/
				•			27.400	4770
	"OTHER I	OSS" FLOW RATE CALC	ULATION:		. 2003			
21					"(Other Loss"	24.602	
22				NI	% "(Jther Loss"	42%	
23			Other Local	Nur Der Day (1	nuer of Day	s in Period	29	
24	-			"Other Lo	oss" per Mi	nute (GPM)	0.589	
				other Le			0.000	
				-		STENTIH OPPOR		
		Kentuc	RU			AT 1		
		- UNBRIDLED SPI						
						A Carlos		
					10/855	1/011/1		
		I his form approve	a by: EPPC	/DEP/DOW	, KY PSC.	KRWA		

		Me	onthly	Water Use	e Repo	rt	1	
Water Ut	ility:	Martin County	Water	District				
	1	,						
For the N	Ionth of:	March				Year:	2016	
LINE #	ITEM						GALLONS	0/
LINE #							(Omit 000 s)	%
1	Water Pro		CHASED				50.000	050/
2	Water Pro	chased					59.300	95%
4	vvalei Fui	chased	TOTA				62 190	5%
7			1014	AL PRODUCE		KCHASED	02.109	
	WATER S	OLD						
5	Residentia	ıl					17.597	82%
6	Commerci	al					0.000	0%
7	Industrial							0%
8	Bulk Loadi	ng Stations						0%
9	Wholesale	•						0%
10	Other Sale	es (explain)	Honey Br	anch Industria	l Park		3.858	18%
11				Т	OTAL WA	TER SOLD	21.455	34%
12	_			TOTAL	WATER	NOT SOLD	40.734	66%
	DDEAKD			1050				
10	BREAKDO	DWN OF UNSOLD	WATERU	JSED			0.400	4.07
13	Utility and/	or vvater Treatmen	it Plant				0.469	1%
14	Sustem El					Fatimated	0.000	0%
10	System Fit	tmont				Estimated	3.000	5%
17	Other (even		Leaks no	t Repair 504 G	DM	Estimated	10,000	16%
17	Other (exp		Leaks no			Loundleu	10.000	10 /6
b				TOTAL UN	SOLD WA	TER USED	13.719	22%
	BREAKD	OWN OF WATER	LOST					
18	Tank Over	flows					0.000	0%
19	Line Break	S				Estimated	4.500	7%
20	Other Loss	5				Estimated	22.515	36%
				тс	TAI WA	TERLOST	27 015	43%
15							21.010	
	"OTHER L	OSS" FLOW RAT	E CALCU	LATION:				
21					"(Other Loss"	22.515	
22					% "(Other Loss"	36%	
23				Num	ber of Day	s in Period	31	
24		"(Other Loss	s" per Day (1,0	00's gallo	ns per Day)	0.726	
25	_			"Other Lo	ss" per Mi	nute (GPM)	0.504	
			<u> </u>			WALTH OF		
		Kenti	ichi	2		88 1		
		UNBRIDLED	SPIRIT	~	and the second se			
	-			-				
	1	This form app	proved by:	EPPC/DEP/D	OW. KY F	SC. KRWA		

			Monthly Water	Use Report			
Water Ut	tility:	Martin County W	later District				
Trator of		maran ocurry n					
For the M	Nonth of:	April			Year	2016	
					rour.	2010	
ù						GALLONS	
LINE #	ITEM					(Omit 000's)	%
1	WATER	PRODUCED or PURCH	HASED				
2	Water Pr	oduced				57 406	99%
3	Water Pu	irchased				0 4 1 9	1%
4			ΤΟΤΑΙ	PRODUCED AND		57 825	170
			TOTAL		FUNCHASED	57.625	
	WATER						
5	Residenti					17 507	0.00/
6	Commor	ai				17.597	02%
7	Inductrial			v		0.000	0%
1	Dulla	din a Otatiana					0%
8	Bulk Load	ding Stations					0%
9	Wholesal	e					0%
10	Other Sa	les (explain)	Honey Bra	nch		3.832	18%
11				TOTAL	WATER SOLD	21.429	37%
12				TOTAL WAT	ER NOT SOLD	36.396	63%
	BREAKD	OWN OF UNSOLD W	ATER USED				
13	Utility and	Vor Water Treatment P	lant			0.404	1%
14	Wastewa	ter Plant	lant			0.404	0%
15	Suctor E				E atimated	0.000	0%
10	System F	lushing			Estimated	3.500	6%
10	Fire Depa	artment			Estimated	0.350	1%
1/	Other (ex	plain)	Leaks not I	Repaired 185 GPM	Estimated	15.892	27%
				TOTAL UNSOLD	WATER USED	20.146	35%
-							
	BREAK	DOWN OF WATER LO	ST				
18	Tank Ove	erflows				0.000	0%
19	Line Brea	ks	(Elk Creek,	, Petercave, Railroa	ad) Estimated	8.250	14%
20	Other Los	SS				8.000	14%
				TOTAL	WATER LOST	16.250	28%
	"OTHER	LOSS" FLOW RATE O	CALCULATION:				
21					"Other Loss"	8 000	
22	-				% "Other Loss"	14%	
22				Number of	Dave in Poriod	20	
23	-		"Other Loca"	per Dev (1 000/c =	allons nor Dev	0.067	
24	-	-	Other Loss	per Day (1,000 s g	allons per Day)	0.207	
25				Other Loss per	r winute (GPW)	0.185	
					SNULL OF		
		Zont	- abit	3			
-			ED SPIRIT				
					A COLOR		
		This form	approved by: EPPC/D	DEP/DOW, KY PSO	C, KRWA		

		Mont	thly Water U	se Report			
Water Ut	tility:	Martin County Water D	District				
		martin o'canty trater D					
For the M	Nonth of:	Мау			Year:	2016	
LINE #	ITEM					(Omit 000's)	%
1	WATER	PRODUCED or PURCHASED			1	1	
2	Water Pr	roduced				58.563	99%
3	Water Pi	urchased	TOTAL D		ID OUL OFF	0.348	1%
4	_		TOTAL P	RODUCED AND PL	JRCHASED	58.911	
	WATER	SOLD					
5	Resident	tial				14.214	84%
6	Commer	cial				0.000	0%
1	Industria						0%
8	Bulk Loa	ding Stations					0%
9	Wholesa						0%
10	Other Sa	ales (explain)	Honey Brach			2.782	16%
11				TOTAL WA		16 006	20%
12				TOTAL WATER	NOT SOLD	41 915	71%
	-					41.010	7170
	BREAK	DOWN OF UNSOLD WATER US	SED			1	
13	Utility an	d/or Water Treatment Plant				0.481	1%
14	Wastewa	ater Plant				0.000	0%
15	System I	Flushing			Estimated	2.250	4%
16	Fire Dep	artment			Estimated	0.250	0%
17	Other (e)	xplain)	Leaks not Re	baired 598 GPM	Estimated	10.000	17%
			тс	DTAL UNSOLD WA	TER USED	12.981	22%
	BREAK	DOWN OF WATER LOST					
18	Tank Ov	erflows		Estimated		0.000	0%
19	Line Brea	aks		Estimated		2.250	4%
20	Other Lo	SS				26.684	45%
				TOTAL WA	TER LOST	28.934	49%
	"OTHER	LOSS" FLOW RATE CALCUL	ATION:				
21				"	Other Loss"	26.684	
22				% "	Other Loss"	45%	
23				Number of Da	ys in Period	31	
24			"Other Loss" pe	er Day (1,000's gallo	ons per Day)	0.861	
25				"Other Loss" per M	nute (GPM)	0.598	
		Kentur UNBRIDLED SP	RIT	>			
	1	This form approv	ed by: EPPC/DEP/	DOW, KY PSC, KI	RWA		

		Mon	thly Water Use Report			
Water Ut	ility:	Martin County Water D	istrict			
		,				
For the M	Nonth of:	June		Year:	2016	
					CALLONS	
LINE #	ITEM				(Omit 000's)	%
1	WATER	PRODUCED or PURCHASED			1	
2	Water P	roduced			58.356	100%
3	Water P	urchased			0.285	0%
4	_		TOTAL PRODUCED A	ND PURCHASED	58.641	
	WATER	SOLD				
5	Residen	tial			18.160	84%
6	Commer	cial			0.000	0%
7	Industria	1				0%
8	Bulk Loa	iding Stations				0%
9	Wholesa	ale				0%
10	Other Sa	ales (explain)	Honey Branch Industrial Pa	rk	3.481	16%
11			ΤΟΤΑ	L WATER SOLD	21 641	37%
12			TOTAL WA	ATER NOT SOLD	37.000	63%
	DDEAK					
10	BREAK	DOWN OF UNSOLD WATER US	SED		0.404	40/
13		d/or Water Treatment Plant		Cotimated	0.461	1%
14	System			Estimated	0.000	0% 5%
16	Fire Den	artment		Estimated	0.350	1%
17	Other (e	xplain)	Leaks not Repaired 436 GF	PM Estimated	9.000	15%
					40 504	0404
			TOTAL UNSOL	D WATER USED	12.561	21%
	BREAK	DOWN OF WATER LOST		I	1	
18	Tank Ov	erflows	Estir	mated	0.000	0%
19	Line Bre	aks	Estir	mated	5.600	10%
20	Other Lo	SS			18.839	32%
			ТОТА	L WATER LOST	24,439	42%
	_					
	"OTHER	R LOSS" FLOW RATE CALCUL	ATION:			
21				"Other Loss"	18.839	
22	_			% "Other Loss"	32%	
23			Number	of Days in Period	30	
24	-		"Other Loss" per Day (1,000s"	per Minute (GPM)	0.628	
		Thereta				
			PIRIT			
					ſ	
		This form on the				
		inis ioni appiov	CODEFIDOV, NIFO			

		Mon	thly Water	Use Report			
Water Ut	tility:	Martin County Water	District				
riator of	uncy.						
For the M	Nonth of:	July			Year:	2016	
LINE #	ITEM					(Omit 000's)	%
1	WATER	PRODUCED or PURCHASED				king and the second second	
2	Water P	roduced				58.102	99%
3	Water P	urchased				0.668	1%
4			TOTAL	PRODUCED AND PU	JRCHASED	58.770	
	WATER	SOLD					
5	Resident	tial				18.160	90%
6	Commer	cial				0.000	0%
7	Industria						0%
8	Bulk Loa	ding Stations					0%
9	Wholesa	le					0%
10	Other Sa	les (explain)	Honey Bra	nch		2.090	10%
11				TOTAL WA	TER SOLD	20.250	34%
12				TOTAL WATER	NOT SOLD	38.520	66%
	BREAK	OOWN OF UNSOLD WATER U	SED				
13	Utility an	d/or Water Treatment Plant				0.480	1%
14	Wastewa	ater Plant				0.000	0%
15	System I	Flushing			Estimated	1.300	2%
16	Fire Dep	artment			Estimated	0.350	1%
17	Other (e	xplain)	Leaks not	Repaired 490 GPM	Estimated	10.000	17%
				TOTAL UNSOLD WA	TER USED	12.130	21%
	DDEAK						
18	Tank Ov	orflows				0.000	0%
10		ake			Estimated	0.000	8%
20	Other Lo	SS			Lotinateu	21 890	37%
20	Calor Lo					21.000	0170
				TOTAL WA	ATER LOST	26.390	45%
	"OTHER	LOSS" FLOW RATE CALCUL	ATION				
21	Unich			1	Other Loss"	21 890	
22				% '	Other Loss"	37%	
23				Number of Da	vs in Period	31	
24			"Other Loss'	per Day (1.000's gallo	ons per Dav)	0.706	
25				"Other Loss" per M	inute (GPM)	0.490	
					STATIL OF		
		Kentuk	CRY	->			
		This form approv	ed by: EPPC/D	EP/DOW, KY PSC, K	RWA		

		Mon	thly Water	Use Rep	oort		1	
Water Ut	tility:	Martin County Water	District					
		,						
For the N	Nonth of:	August				Year:	2016	
LINE #	ITEM						(Omit 000's)	%
1	WATER	PRODUCED or PURCHASED						
2	Water Pr	roduced					56.347	99%
3	Water Pu	urchased					0.762	1%
4			TOTAL	PRODUCE	D AND P	URCHASED	57.109	
	WATER	SOLD					-	
5	Resident	tial					14.344	82%
6	Commer	cial					0	0%
7	Industria							0%
8	Bulk Loa	ding Stations						0%
9	Wholesa							0%
10	Other Sa	iles (explain)	Honey Bra	nch			3.080	18%
11				т	OTAL WA	ATER SOLD	17 424	31%
12				TOTAL	WATER	NOT SOLD	39.685	69%
	BREAK	DOWN OF UNSOLD WATER U	SED				а Т	
13	Utility and	d/or Water Treatment Plant					0.483	1%
14	Wastewa	ater Plant				Estimated	0.000	0%
15	System F	lushing				Estimated	1.500	3%
16	Fire Dep	artment				Estimated	0.325	1%
17	Other (e)	kplain)	Leaks not i	repaired 595	GPM	Estimated	10.000	18%
				TOTAL UN	SOLD WA	ATER USED	12.308	22%
	BDEAK							
18	Tank Ov	erflows					0.000	0%
19	Line Brea	aks					0.000	1%
20	Other Lo	SS					26.577	47%
				T	OTAL W	ATER LOST	27.377	48%
	"OTHER	LOSS" FLOW RATE CALCU						
21					,	'Other Loss"	26 577	
22					%	'Other Loss"	47%	
23	-			Nun	nber of Da	avs in Period	31	
24			"Other Loss"	per Day (1,0	000's gallo	ons per Day)	0.857	
25				"Other Lo	ss" per M	inute (GPM)	0.595	
		The set of	1	~		STATE OR		
			PIRIT		(
						ALC: CA		

		Mor	thly Water Use Re	port			
		Martin Carrie Martin F					
vvater Ut	ility:	Martin County Water L	District				
For the M	Aonth of	Sontombor			Veer	0040	
r or the w	nontin or.	September			rear:	2016	
					-	GALLONS	
LINE #	ITEM					(Omit 000's)	%
1	WATER	PRODUCED or PURCHASED					
2	Water Pr	roduced				57.596	100%
3	Water Pi	urchased				0.078	0%
4			TOTAL PRODUC	ED AND PU	RCHASED	57.674	
_	WATER	SOLD					
5	Resident					17.760	95%
6	Commer					0.000	0%
1	Industria Bulk Loo	ding Stations					0%
8	Bulk Loa	ding Stations					0%
9	Othor Sa		Honoy Branch			0.027	0%
10	Other Sa		Honey Branch			0.927	5%
11				TOTAL WAT	TER SOLD	18 687	32%
12			тоти	AL WATER	NOT SOLD	38.987	68%
	BREAK	DOWN OF UNSOLD WATER U	SED				
13	Utility an	d/or Water Treatment Plant				0.499	1%
14	Wastewa	ater Plant			Estimated	0.000	0%
15	System F	Flushing			Estimated	2.500	4%
16	Fire Dep	artment			Estimated	0.250	0%
17	Other (ex	kplain)	Leaks not repaired 49	2 GPM	Estimated	11.000	19%
1			TOTAL			44.040	0.50/
			IOTALU	NSOLD WA	IER USED	14.249	25%
_	DDEAK						
10	Tonk Ov	offewe		Estimated		0.000	00/
10	Line Bro			Estimated		0.000	6%
20	Other Lo	ans ss		LSIIIIaleu		21 238	37%
20	Other Lo	33				21.200	5170
1.1				TOTAL WA	TER LOST	24,738	43%
	"OTHER	LOSS" FLOW RATE CALCUL	ATION:				
21				"(Other Loss"	21.238	
22				% "0	Other Loss"	37%	
23			Nu	mber of Day	s in Period	30	
24	-		"Other Loss" per Day (1	1,000's gallor	ns per Day)	0.708	
25			"Other L	oss" per Mir	nute (GPM)	0.492	
		78 -			STATH OF		
		Kentu	CRY	CALL OF THE OWNER			1
		- UNBRIDLED S		1	LU E		
					A/ A		
		This form appro	vea by: EPPC/DEP/DOW, P	AT PSC, KRI	/VA		

1.		<u>Mo</u>	nthly Water Use	Report		1	
Water Ut	tilitv:	Martin County Water	District				
For the N	Nonth of:	October			Year:	2016	
LINE #	ITEM					(Omit 000's)	%
1	WATER	PRODUCED or PURCHASE	D				
2	Water P	roduced				60.697	100%
3	Water P	urchased				0	0%
4			TOTAL PRO	DUCED AND P	PURCHASED	60.697	
	WATER	SOLD					1
5	Resident	tial				16.134	95%
6	Commer	cial				0.000	0%
7	Industria						0%
8	Bulk Loa	iding Stations					0%
9	Wholesa						0%
10	Other Sa	ales (explain)	Honey Branch			0.850	5%
14				TOTAL		10.001	000/
11	_			TOTAL W	ATER SOLD	16.984	28%
12				TOTAL WATER	KNOT SOLD	43.713	12%
	BREAK	DOWN OF UNSOLD WATER	USED				
13	Utility an	d/or Water Treatment Plant				0.468	1%
14	Wastewa	ater Plant				0.000	0%
15	System I	Flushing			Estimated	3.250	5%
16	Fire Dep	artment			Estimated	0.300	0%
17	Other (e)	xplain)	Leaks not repair	ed 564 GPM	Estimated	11.000	18%
			тот	AL UNSOLD W	ATER USED	15.018	25%
	BDEAK						
18	Tank Ov	erflows				0.000	0%
10		ake				3 500	6%
20	Other Lo					25 195	42%
20	o there is a					20.100	1270
				TOTAL W	ATER LOST	28.695	47%
			III ATION				
21	OTHER	LUSS FLOW RATE CALCU	ULATION:		"Other Loss"	25 195	
22				%	"Other Loss"	42%	
23				Number of D	avs in Period	31	
24			"Other Loss" per [Day (1.000's gal	lons per Day)	0.813	
25			"0	ther Loss" per N	Ainute (GPM)	0.564	
		Kentu	CRY				
		This form apor	oved by: EPPC/DEP/D	OW. KY PSC. P	KRWA		

un .			Monthly Water Us	se Re	eport	1		i.s.
Water Ut	ility:	Martin County Wa	ater District					
		,,						
For the M	Ionth of:	November				Year:	2016	
5.25								
							GALLONS	
LINE #	ITEM						(Omit 000's)	%
1	WATER	PRODUCED or PURCH	ASED					
2	Water Pi	roduced					55.721	100%
3	Water Pi	urchased					0	0%
4			TOTAL PR	RODUC	ED AND PU	RCHASED	55.721	
1	WATER	SOLD						
5	Resident	tial					14 723	100%
6	Commer	cial					14.720	0%
7	Industria						0	0%
8	Bulk Loa	ding Stations						0%
9	Wholesa							0%
10	Other Sa	ales (explain)	Honey Branch					0%
10	Other Of		Tioney Dranch		-			0 78
11					TOTAL WA	TER SOLD	14 723	26%
12				TOT	AI WATER	NOT SOLD	40 998	74%
12				1017		ICT COLD	40.000	7470
	BREAK	OWN OF LINSOLD WAT						
13	Litility an	d/or Water Treatment Pla	ant ant				0 437	1%
14	Wastews	ater Plant					0.437	0%
15	System						2.500	10/0
10	Eiro Don	artmont					2.500	4 70
10	Other (e)		Looks not Bon	airad	515 CDM		12.000	229/
17	Other (e)	xpiairi)	Leaks not Rep	alleu	515 GPIVI		12.000	2270
			то				15 237	27%
				TAL U	NOOLD WA		15.257	2170
	BREAK	DOWN OF WATER LOS	T					
18	Tank Ov	erflows					0	0%
19	Line Brea	aks				Estimated	3,500	6%
20	Other Lo	ISS					22.261	40%
					TOTAL WA	TER LOST	25.761	46%
01	OTHER	LOSS" FLOW RATE CA	ALCULATION:			Other Leas"	00.004	
21					0/ 11/	Other Loss	22.201	
22				NI.	mber of D-	unin Deried	0.400	
23			"Other Less" no		Imper of Day	s in Period	30.000	
24			Other Loss per	Othor I	1,000 S gallo	is per Day)	0.742	
25				Other			0.515	
		Kent						
		This form	approved by: EPPC/DEP/I	DOW,	KY PSC, KF	RWA		

			Monthl	y Water	Use Re	ροιτ		
Water Uti	lity:	Martin C	ountv W	ater Dist	rict			
For the M	onth of:	December				Year:	2016	
	_							
LINE #	ITEM						GALLONS (Omit 000's)	%
1	WATER	PRODUCED	or PURCH	ASED				
2	Water Pr	oduced					59.523	100%
3	Water Pu	urchased					0	0%
4			ΤΟΤΑΙ		ED AND PU	JRCHASED	59.523	
	WATER	SOLD						
5	Resident	ial					15.399	96%
6	Commer	cial					0	0%
7	Industrial							0%
8	Bulk Load	ding Stations						0%
9	Wholesa	le						0%
10	Other Sa	les (explain)	Honey Bra	anch			0.645	4%
11					TOTAL MA	TED COLD	16.044	270/
12				TOT	AL WATED	NOT SOLD	10.044	27%
12				101/	AL WATER	NOT SOLD	43.479	73%
	BREAKD	OWN OF UN	SOLD WA	TER USE)			
13	Utility and	d/or Water Tr	eatment PI	ant			0.464	%
14	Wastewa	ater Plant						0%
15	System F	lushing					2.500	4%
16	Fire Depa	artment					0.400	1%
17	Other (ex	(plain)	Leaks not	Repaired	250 GPM	Estimated	10.800	18%
				TOTAL U	NSOLD WA	TER USED	14.164	24%
	DDEAW			-				
10	BREAK	DOWN OF W	ATERLOS	51			0.000	00/
18	Tank Ove	ertiows					0.000	0%
19	Line Brea	aks				Estimated	3.500	6%
20	Other Los	SS					25.815	43%
					TOTAL WA	TER LOST	29.315	49%
	"OTHER	LOSS" FLO	W RATE C	ALCULAT	ION:			
21						Other Loss"	25.815	
22					% "	Other Loss"	43%	
23	-		04	N	umber of Da	ys in Period	31.000	
24			Other Loss	per Day (1,000's gallo	ns per Day)	0.833	
25				Other	Loss per Mi	nute (GPM)	0.578	
		Ken		12	(
		This form	approved I	ov: EPPC/D	EP/DOW.	KY PSC. KR	:WA	

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		NITATION 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

,

 $\left(\right)$





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 aerationWX21159016 \$10,000
•	Clearwell diffusion pipe repairWX21159016 \$5,000
•	Clarifier coverWX21159016 \$200,000
•	Filter at reservoir intakeWX21159016 \$20,000
•	Rebuild #1 clarifierWX21159007 \$1,000,000
	Subtotal \$1,235,000
	System improvement/maintenance reduction (required)
•	Raw Water Intake UpgradesWX21159009 \$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
		A sele made some

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



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: Entity Name: Web URL: Office EMail:	Water District (KRS 74) Martin County Water District jhammond58@bellsouth.net		PSC Group ID: 25000		
Office Phone:	606-298-3885	Toll Free:	Fax: 60	16-298-4913	
Mail Address Line 1:	387 E Main St		Phys Address Line 1:		<u></u> ,
Mail Address Line 2:			Phys Address Line 2:		
Mail City, State Zip:	Inez, KY 41224		Phys City, State Zip:		
Contact:	Joe Hammond		Auth Official:	Keily 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 Authori	ty		Date Last Modified:	03.03.2017



Project Administrator (PA) Information	
Name: Holly L Nicholas	
Title: Project Developer	
Organization: Kentucky Engineering Group, Plic	
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	Engineering Firm Information:
Phone: 859-251-4127 Fax: 859-251-4137	Permit No: 2889
E-Mail: ithompson@kvengr.com	Firm Name: Kentucky Engineering Group PLLC
Firm Name: Kentucky Engineering Group PLLC	Phone: 859-251-4127 Fax: 859-251-4137
Addr Line 1: Kentucky Engineering Group PLLC	Web URL: http://www.kyengr.com/
Addr Line 2: 161 North Locust Street	EMail: ithompson@kyengr.com
Addr Line 3:	Addr Line 1: 161 N. Locust St.
City: Versailles State: KY Zip: 4038	3 Addr Line 2:
Status: Current Disciplinary Actions: NO	City: Versailles State: KY Zip: 40383
Issued: 01-05-2005 Expires: 06-30-2018	Status: Current Disciplinary Actions: NO
	Issued: 02-19-2009 Expires: 12-31-2017

Estimated Budget

Project Cost Classification:		Construction Cost Categories:	
Administrative Exp.:	\$ 25,000	Treatment:	
Legal Exp.:	\$ 10,000	Transmission & Distribution:	\$ 4,400,000
Land, Appraisals, Easements:		Source:	
Relocation Exp. & Payments:		Storage:	
Planning:		Purchase of Systems:	
Engineering Fees - Design:	\$ 170,000	Restructuring:	
Engineering Fees - Construction:	\$ 42,610	Land Acquisision:	
Engineering Fees - Inspection:	\$ 118,490	Non-Catagorized:	
Engineering Fees - Other:	\$ 7,500	Total Construction:	\$ 4,400,000
Construction:	\$ 4,400,000		
Equipment:		Total Sustainable Infrastructure Costs:	
Miscellaneous:		Note: Total Sustainability Infrastructure Costs are included with construction and other costs reported in this section. This	
Contingencies:	\$ 400,000	,000 breakout is provided for SRF review purposes.	
Total Project Cost:	\$ 5,173,600		

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:

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:

O Plans and specs have been sent to DOW.

 \bigcirc Plans and specs have been reviewed by DOW.

O Plans and specs have been sent to PSC.

 $\bigcirc\,$ Plans and specs have been reviewed by PSC.

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:	



Drinking Water Project Profile

WX21159006 - Martin County Water District

Martin County Rehab Aging Infrastructure

	-			
	6×4-127584825	1000000000	Tender the A	A STATISTICS
	Loopo	- in 1		1
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Cas in the total	- 3.48 - 60% C.	* V/ /* 3	2.2.5	m. marting and

			1
Johs (`rea	ted:	1

Jobs Retained:

*Demograph	ic 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	d Service	
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:	99 #98." TOT ENLIGE	1988-1997-1975-1975-1975-1975-1975-1975-1975
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.

Geog For	iraphic Impacts Project Area
Counties	· · · · · ·
Martin]
Legis	slative Districts
District Name	Legislator
House 093	Chris Harris
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers
Groundwa	ter Sensitivity Zones
Clouidara	ter octisitivity zones
HUC	10 Watersheds
HUC Code	Watershed Name
0507020105	Nolf Creek-Tug Fork
0507020106 F	Rockcastle Creek-Tug Fork

raphic Impacts luded System(s)
lative Districts
Legislator
Chris Harris
Jill York
Scott Wells
Brandon Smith
Ray S. Jones II

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
- In 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):

DOW				Mapped Line Features			
Permit ID	LINE	iype	Fulpose	Activity	Size (in.)	Iviaterial	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	Ø	Construction	\square	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 infrástructure 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,	
Su	stainable Infrastructure - Energy Efficiency:	
	Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projec energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:	ts, use
	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.

Su	Istainable Infrastructure - Environmentally Innovative:	
	Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering ser managing water resources in a more sustainable way. Examples include:	vices or
	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.	
Sus	stainable Infrastructure - Asset Management:	
	If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to a Singh (Anshu.Singh@ky.gov) for CW projects	Anshu
<u> </u>	Component	
L	ast Rate Adjustment Date: 07-07-2011 Download Fee Schedule	
	Rate Adjustment Age: 66 months	
Sys	tem'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 a deteriorating infrastructure.	ind .
		<u> </u>
Pro	ject Status: Approved Date Approved: 12-09-2014 Date Rev	ised:

1	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
Da	te 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: Entity Name: Web URL:	Water District (KRS 74) Martin County Water District		PSC Group ID: 25000
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 Authorit	ty	Date Last Modified: 03.03.2017



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:		
It is project requires a licensed Professional Engineer.		
License No: PE 24022		
PE Name: James C. Thompson	Engineering Firm Information:	
Phone: 859-251-4127 Fax: 859-251-4137	Permit No: 2889	

Firm Name: Kentucky Engineering Group PLLC

Phone: 859-251-4127

Addr Line 1: 161 N. Locust St.

City: Versailles

Status: Current

Issued: 02-19-2009

Addr Line 2:

Web URL: http://www.kyengr.com/

EMail: jthompson@kyengr.com

Fax: 859-251-4137

State: KY

Disciplinary Actions: NO

Zip: 40383

Expires: 12-31-2017

E-Mail: jthompson@kyengr.com

Addr Line 2: 161 North Locust Street

City: Versailles

Issued: 01-05-2005

Status: Current

Addr Line 3:

Firm Name: Kentucky Engineering Group PLLC

Addr Line 1: Kentucky Engineering Group PLLC

State: KY

Disciplinary Actions: NO

Zip: 40383

Expires: 06-30-2018

Estimated Budget

Project Cost Classification:		Construction Cost Categories:	
Administrative Exp.:	\$ 39,875	Treatment:	\$ 1,295,000
Legai Exp.:	\$ 5,000	Transmission & Distribution:	
Land, Appraisals, Easements:		Source:	
Relocation Exp. & Payments:		Storage:	
Planning:	\$ 25,000	Purchase of Systems:	
Engineering Fees - Design:	\$ 141,158	Restructuring:	
Engineering Fees - Construction:		Land Acquisision:	
Engineering Fees - Inspection:	\$ 89,320	Non-Catagorized:	\$ 300,000
Engineering Fees - Other:		Total Construction:	\$ 1,595,000
Construction:	\$ 1,595,000		
Equipment:		Total Sustainable Infrastructure Costs:	
Miscellaneous:	\$ 3,500	Note: Total Sustainability Infrastructure Costs ar construction and other costs reported in this sec	e included within tion. This
Contingencies:	\$ 159,500	breakout is provided for SRF review purposes.	
Total Project Cost:	\$ 2,058,353		

Estimated Project Schedule:

Estimated Construction Start Date:

Estimated Bid Date:

Est. Environmental Review Submittal Date:

Estimated Construction Completeion Date:

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.

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:

O Plans and specs have been sent to DOW.

 \bigcirc Plans and specs have been reviewed by DOW.

O Plans and specs have been sent to PSC.

O Plans and specs have been reviewed by PSC.

02-01-2017

01-01-2017

04-01-2017

05-01-2018



Water Treatment Plant Clarifier Rehab

		A State of the second sec		E LOY CONTRACTOR	E-MARTIN STATE NO. AND STATES IN THE	- 70	AT THE REPORT OF THE	AND
			Ecor	nomic, Demograph	nic and Geographic Impacts	-74.5° - 14.5°		
Economic I	mpacts			Geo	graphic impacts		Geor	ranhicimnacte
Jobs Create	ed:	1		Fo	r Project Area	28/34	For Inc	cluded System(s)
Jobs Retaine	ed:]		Counties		٦ſ	Counties	
*Demograph	ic Impacts	(GIS Census	Overlay)	Martin			Johnson	
Servceable	Project			Legi	slative Districts		Lawrence	
Demographic	Alean	Jystems	。 Otimies 注	District Name	Legislator			
Population:		12,175	12,170	House 093	Chris Harris		Legi	slative Districts
Households:		5,093	5,093	Senate 31	Ray S. Jones II		District Name	Legiclator
MHI:		\$25,814	*\$25,814	Congressional F				Legislator
MHI MOE		\$6,163	*\$6,163	Congressional o			House 093	Chris Harris
MOE as Pct:		24.0%	24.0%	Groundwa	ater Sensitivity Zones		House 096	Jill York
**NSDI ·							House 097	Scott Wells
NORL.		<u>∠</u>		HUG	10 Watersheds		Senate 30	Brandon Smith
Population and h census block vali	ousehold co ues from the	unts are base SF1 (100%)	d on 2010 dataset.	HUC Code	Watershed Name		Senate 31	Ray S. Jones II
MHI Source is fro	om the Ame	rican Commur	nitv Survev	0507020106	Rockcastle Creek-Tuo Fork		Congressional 5	Hal Rogers

Ce 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:	\$6	17

٠ 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.

O O O O O O O	
Martin]
Legi	slative Districts
District Name	Legislator
House 093	Chris Harris
Senate 31	Ray S. Jones II
Congressional 5	Hal Rogers
Groundwa	ter Sensitivity Zones
HUC	10 Watersheds
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CANES AND PLAN STREET AND AND AND AND AND
HUC Code	 Watershed Name

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
- I 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		Management
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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

- M 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:

Сотр	onent	Cost
Bioretention		\$0
Trees		\$0
Green Roofs		\$0
Permeable Pavement		\$0
		\$0
	Total Green Infrastructure Cost:	\$0
There are no Green Infrastructure components spe	ecified for this project.	



WX21159007 - Martin County Water District Water Treatment Plant Clarifier Rehab

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.



Water Treatment Plant Clarifier Rehab

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:

Print Date:3/3/2017



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:	Mator District (KPS 74)		DSC Crown ID: 25000	
	Water District (KKG 74)		PSC Group ID. 25000	
Enuly Name:	Wartin 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 Authorit	ty	Date Last Modified: 03.03.2017	



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Name: Holly L Nicholas Title: Project Developer Organization: Kentucky Engineering Group, Pllc Address Line 1: 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: ØT This project requires a licensed Professional Engineer. License No: PE 24022 PE Name: James C. Thompson Phone: 859-251-4127 Fax: 859-251-4137 Firm Name: Kentucky Engineering Group PLLC Addr Line 1: Kentucky Engineering Group PLLC Addr Line 1: Kentucky Engineering Group PLLC Addr Line 2: City: Versailles State: KY Zip: 40383 Status: Current Disciplinary Actions: NO Issued: 01-05-2005 Expires: 06-30-2018	Project Administrator (PA) Information				
Title: Project Developer Organization: Kentucky Engineering Group, Pilc 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 2: City: Inez State: KY Zip: 41224 Phone: 606-626-7748 Fax: 606-298-4913 Project Engineer (PE) Information: Engineering Firm Information: Image: Project requires a licensed Professional Engineer. License No: PE 24022 PE Mame: James C. Thompson Phone: 859-251-4127 Prome: 659-251-4127 Firm Name: Kentucky Engineering Group PLLC Addr Line 1: Kentucky Engineering Group PLLC Addr Line 2: 1161 N. Locust St. City: Versailles Status: City: Versailles Status: City: Versailles Status: City: Versailles Status: Status: <td>Name: Holly L Nicholas</td> <td></td>	Name: Holly L Nicholas				
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	Issued: 01-05-2005 Evolutions. NO	Status: Current Disciolinary Actions: NO			
		lected: 02-10-2000			



WX21159009 - Martin County Water District Water Intake Upgrades

Estimated Budget

Project Cost Classification:		Construction Cost Categories:	
Administrative Exp.:	\$ 10,000	Treatment:	
Legal Exp.:		Transmission & Distribution:	
Land, Appraisals, Easements:		Source:	\$ 1,800,000
Relocation Exp. & Payments:		Storage:	
Planning:		Purchase of Systems:	
Engineering Fees - Design:	\$ 113,600	Restructuring:	
Engineering Fees - Construction:	\$ 28,420	Land Acquisision:	
Engineering Fees - Inspection:	\$ 86,400	Non-Catagorized:	
Engineering Fees - Other:	\$ 5,000	Total Construction:	\$ 1,800,000
Construction:	\$ 1,800,000		
Equipment:		Total Sustainable Infrastructure Costs:	
Miscellaneous:	Miscellaneous: Note: Total Sustainability Infrastructure Costs construction and other costs reported in this set		e included within tion. This
Contingencies:	\$ 180,000	breakout is provided for SRF review purposes.	
Total Project Cost:	\$ 2,223,420		

Estimated Project Schedule:

Estimated Construction Start Date: Estimated Construction Completeion Date:

Estimated Bid Date:

Est. Environmental Review Submittal Date:

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

Funding Source Notes:

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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:

O Plans and specs have been sent to DOW.

 $\bigcirc\,$ Plans and specs have been reviewed by DOW.

O Plans and specs have been sent to PSC.

 $\bigcirc\,$ 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)					
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:	3,335	
To Total Households:	3,335	
** Cost Per Household:	\$6	67

* 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.

Geog	raphic Impacts Project Area
Counties	

Legislative Districts

District Name: Legislator

Groundwater Sensitivity Zones

HUC 10 Watersheds HUC Code Watershed Name

	Geog For Inc	raphic impacts luded System(s)
	Counties	
(4) (4)	Johnson	
	Lawrence	
	Martin	
	Legis	slative Districts
22. 22. 23.	District Name	Legislator
	House 093	Chris Harris
25	House 096	Jill York
	House 097	Scott Wells
	Senate 30	Brandon Smith
	Senate 31	Ray S. Jones II
	Congressional 5	Hal Rogers

water

DW Specific Impacts:

- ☑ This project relates to a public health emergency.
- This project will assist a non-compliant system to achieve compliance.
- In this project will assist a compliant system to meet future requirements
- In 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.

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 Intake Upgrades

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:

Com	ponent	Cost
Bioretention		\$0
Trees		\$0
Green Roofs		\$0
Permeable Pavement		\$0
		\$0
	Total Green Infrastructure Cost:	\$0
There are no Green Infractructure components or	posified for the project	

There are no Green Infrastructure components specified for this project.



WX21159009 - Martin County Water District

Water Intake Upgrades

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.



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WX21159009 - Martin County Water District

Water Intake Upgrades

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:

Print Date:3/3/2017



Legal Applicant:	Martin County Wat	er District		
Project Title:	Water Treatment P	lant Clarifer and D	isinfection 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	5 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: Entity Name: Web URL:	Water District (KRS 74) Martin County Water District		PSC Group ID: 25000
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 Authori	ty	Date Last Modified: 03.03.2017

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	Engineering Firm Information:
Phone: 859-251-4127 Fax: 859-251-4137	Permit No: 2889
E-Mail: jthompson@kyengr.com	Firm Name: Kentucky Engineering Group PLLC
Firm Name: Kentucky Engineering Group PLLC	Phone: 859-251-4127 Fax: 859-251-4137
Addr Line 1: Kentucky Engineering Group PLLC	Web URL: http://www.kyengr.com/
Addr Line 2: 161 North Locust Street	EMail: jthompson@kyengr.com
Addr Line 3:	Addr Line 1: 161 N. Locust St.
City: Versailles State: KY Zip: 40383	Addr Line 2:
Status: Current Disciplinary Actions: NO	City: Versailles State: KY Zip: 40383
Issued: 01-05-2005 Expires: 06-30-2018	Status: Current Disciplinary Actions: NO
	Issued: 02-19-2009 Expires: 12-31-2017

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Estimated Budget

	Construction Cost Categories:	
\$ 10,000	Treatment:	\$ 235,000
\$ 10,000	Transmission & Distribution:	
	Source:	
	Storage:	
\$ 10,000	Purchase of Systems:	
\$ 26,000	Restructuring:	
\$ 30,000	Land Acquisision:	
\$ 15,000	Non-Catagorized:	
	Total Construction:	\$ 235,000
\$ 235,000		
	Total Sustainable Infrastructure Costs:	
	Note: Total Sustainability Infrastructure Costs are construction and other costs reported in this secti	included within
\$ 23,500	breakout is provided for SRF review purposes.	
\$ 359,500		
	\$ 10,000 \$ 10,000 \$ 10,000 \$ 26,000 \$ 30,000 \$ 15,000 \$ 235,000 \$ 23,500 \$ 359,500	Construction Cost Categories:\$ 10,000Treatment:\$ 10,000Transmission & Distribution:\$ 10,000Transmission & Distribution:Source:Source:\$ 10,000Purchase of Systems:\$ 26,000Restructuring:\$ 26,000Land Acquisision:\$ 26,000Non-Catagorized:\$ 30,000Land Acquisision:\$ 15,000Non-Catagorized:\$ 235,000Total Sustainability Infrastructure Costs are construction and other costs reported in this sector breakout is provided for SRF review purposes.\$ 235,000\$ 359,500

Estimated Project Schedule:

Estimated Construction Start Date:

Estimated Bid Date:

Est. Environmental Review Submittal Date:

Estimated Construction Completeion Date:

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 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:

O Plans and specs have been sent to DOW.

Regional Ranking(s):

O Plans and specs have been reviewed by DOW.

O Plans and specs have been sent to PSC.

Planning Unit Ranking: Total Points:

Plans and specs have been sent to PSC.

\bigcirc Plans and specs have been reviewed by PSC.

Economic; Demographic and Geographic Impacts

Economic Impacts

Water Tre



Drinking Water Project Profile WX21159016 - Martin County Water District

Water Treatment Plant Clarifer and Disinfection byproduct reduction

Jobs Created:	
Jobs Retained:	

*Demograph	ic 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	I Service	
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:		
To Underserved Households:	3,500	
To Total Households:	3,500	
** Cost Per Household:	\$1	03

* 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	Geographic Impacts For Included System(s)
Counties	Counties
Legislative Districts	Johnson
District Name Legislator	Martin
Groundwater Sensitivity Zones	Legislative Districts
HUC 10 Watersheds	District Name Legislator
HUC Code Watershed Name	House 093 Chris Harris
vidershed vider	House 096 Jill York

House 097

Senate 30

Senate 31

Congressional 5

Scott Wells

Hal Rogers

Brandon Smith

Ray S. Jones II



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: Image: Planning Image: Design </tr

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:

Com	iponent	Cost
□ Bioretention		\$0
Trees		\$0
Green Roofs		\$0
Permeable Pavement		\$0
Cisterns		\$0
	Total Green Infrastructure Cost:	\$0
There are no Green Infrastructure components s	pecified for this project	



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

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.



Drinking Water Project Profile

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

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: