Northern Kentucky Water District Revenue Bonds, Series 2019 (Final Schedules)

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Distribution of Funds Northern Kentucky Water District Revenue Bonds, Series 2019 (Distribution of Funds Schedule)

Pricing: September 10, 2019 Dated Date: September 26, 2019 Delivery Date: September 26, 2019

Sources of Funds:

Par Amount of Bonds \$17,845,000.00
Plus: Original Issuer's Premium \$1,253,998.75
Less: Underwriter's Discount \$(\$169,083.78)

Total Due From Purchaser \$18,929,914.97

Less: Good Faith Deposit (1%)

Total Due from Purchaser at Closing

(\$178,450.00)

\$18,751,464.97

Total Sources of Funds _____\$18,929,914.97

Uses of Funds:

Deposit to Current Refunding Fund (to be Wired to Regions on 10/01/19) \$17,825,002.23

Deposit to Debt Service Reserve Fund \$1,033,625.00

Deposit to Cost of Issuance Fund \$71,287.74

Wire to Ross, Sinclaire & Associates their Financial Advisor Fees \$26,767.50

Remit to Dinsmore & Shohl their Bond Counsel Fees (Includes Expenses) \$12,849.00

Remit to Moody's Investors Service their Rating Fees \$25,000.00

Remit to The Bank of New York Mellon their Paying Agent and Registrar Fees \$1,150.00

Remit CPA Fees \$1,300.00

Remit Rounding Amount to Debt Service Fund \$4,221.24

\$18,929,914.97

Flow of Funds Northern Kentucky Water District Revenue Bonds, Series 2019 (Flow of Funds Schedule)

Pricing: September 10, 2019 Dated Date: September 26, 2019 Delivery Date: September 26, 2019

From Purchaser (Piper Jaffray)

September 10, 2019	Wire to The Bank of New York Mellon the Good Faith Deposit	\$178,450.00
September 26, 2019	Wire to The Bank of New York Mellon the Remaining Bond Proceeds	\$18,751,464.97
Total:		\$18,929,914.97

From Paying Agent and Registrar (Bank of New York)

September 26, 2019	Deposit to Current Refunding Fund (to be Wired to Regions on 10/01/19)	\$17,825,002.23
September 26, 2019	Remit to Debt Service Reserve Fund	\$1,033,625.00
September 26, 2019	Wire to Ross, Sinclaire & Associates their Financial Advisor Fees	\$26,767.50
September 26, 2019	Remit to Dinsmore & Shohl their Bond Counsel Fees (Includes Expenses)	\$12,849.00
September 26, 2019	Remit to Moody's Investors Service their Rating Fees	\$25,000.00
September 26, 2019	Remit to The Bank of New York Mellon their Paying Agent and Registrar Fees	\$1,150.00
September 26, 2019	Remit CPA Fees	\$1,300.00
September 26, 2019	Remit Rounding Amount to Debt Service Fund	\$4,221.24
Total:		\$18,929,914.97

Wiring Instructions

RNV Mellon

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The Bank of New York Mellon

ABA: 021000018

Account Number: 4074118400

Ref: Northern KY Water District Bonds 2019

Attn: Bart Trindeitmar, 502-566-6903

Ross, Sinclaire & Associates LLC

Fifth Third Bank Cincinnati, Ohio ABA #: 042000314 Account #: 7021476085

Reference: NKY Water Series 2019

Regions (BAN Payoff)

Regions Capital Advantage, Inc. 1900 5th Avenue North Suite 2400 Birmingham, Alabama 35203

ABA# 062000019

ACCOUNT # 0107024142

Notify Regions Equip Fin 205-264-4778

Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Sources & Uses

Dated 09/26/2019 | Delivered 09/26/2019

Sources Of Funds

Par Amount of Bonds	\$17,845,000.00
Reoffering Premium	1,253,998.75

<u>Total Sources</u> \$19,098,998.75

Uses Of Funds

OCC CIT GIAG	
Total Underwriter's Discount (0.948%)	169,083.78
Costs of Issuance	67,066.50
Deposit to Debt Service Reserve Fund (DSRF)	1,033,625.00
Deposit to Current Refunding Fund	17,825,002.23
Rounding Amount	4,221.24

\$19,098,998.75

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019 FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Pricing Summary

Part 1 of 2

									Call	
<u>Maturity</u>	Type of Bond	Coupon	Yield	Maturity Value	Price		YTM	Call Date	Price	Dollar Price
02/01/2020	Serial Coupon	3.000%	1.150%	535,000.00	100.637%		-	-	-	538,407.95
02/01/2021	Serial Coupon	3.000%	1.160%	455,000.00	102.451%		-	-	-	466,152.05
02/01/2022	Serial Coupon	3.000%	1.180%	470,000.00	104.200%		-	-	-	489,740.00
02/01/2023	Serial Coupon	4.000%	1.200%	485,000.00	109.158%		-	-	-	529,416.30
02/01/2024	Serial Coupon	4.000%	1.230%	505,000.00	111.689%		-	-	-	564,029.45
02/01/2025	Serial Coupon	5.000%	1.280%	530,000.00	119.165%		-	-	-	631,574.50
02/01/2026	Serial Coupon	5.000%	1.320%	560,000.00	122.333%		-	-	-	685,064.80
02/01/2027	Serial Coupon	5.000%	1.380%	585,000.00	125.208%		-	-	-	732,466.80
02/01/2028	Serial Coupon	5.000%	1.450%	615,000.00	126.239%	c	1.625%	08/01/2027	100.000%	776,369.85
02/01/2029	Serial Coupon	4.000%	1.650%	645,000.00	117.228%	c	1.972%	08/01/2027	100.000%	756,120.60
02/01/2030	Serial Coupon	3.000%	1.860%	665,000.00	108.286%	c	2.104%	08/01/2027	100.000%	720,101.90
02/01/2031	Serial Coupon	3.000%	1.970%	690,000.00	107.453%	c	2.252%	08/01/2027	100.000%	741,425.70
02/01/2032	Serial Coupon	3.000%	2.060%	710,000.00	106.777%	c	2.364%	08/01/2027	100.000%	758,116.70
02/01/2033	Serial Coupon	3.000%	2.200%	730,000.00	105.735%	c	2.492%	08/01/2027	100.000%	771,865.50
02/01/2034	Serial Coupon	3.000%	2.290%	755,000.00	105.071%	c	2.575%	08/01/2027	100.000%	793,286.05
02/01/2035	Serial Coupon	3.000%	2.380%	775,000.00	104.412%	c	2.648%	08/01/2027	100.000%	809,193.00
02/01/2036	Serial Coupon	3.000%	2.430%	800,000.00	104.048%	c	2.692%	08/01/2027	100.000%	832,384.00
02/01/2037	Serial Coupon	3.000%	2.510%	825,000.00	103.468%	c	2.747%	08/01/2027	100.000%	853,611.00
02/01/2038	Serial Coupon	3.000%	2.550%	850,000.00	103.180%	c	2.777%	08/01/2027	100.000%	877,030.00
02/01/2039	Serial Coupon	3.000%	2.590%	875,000.00	102.892%	c	2.805%	08/01/2027	100.000%	900,305.00
02/01/2040	Serial Coupon	3.000%	2.680%	900,000.00	102.248%	с	2.853%	08/01/2027	100.000%	920,232.00
02/01/2041	Serial Coupon	3.000%	2.710%	930,000.00	102.035%	c	2.872%	08/01/2027	100.000%	948,925.50
02/01/2042	Serial Coupon	3.000%	2.740%	955,000.00	101.822%	c	2.889%	08/01/2027	100.000%	972,400.10
02/01/2044	Term 1 Coupon	3.000%	2.780%	2,000,000.00	101.539%	c	2.911%	08/01/2027	100.000%	2,030,780.00
Total	-	-	-	\$17,845,000.00	-	-	-	-	-	\$19,098,998.75

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019 FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Pricing Summary

Part 2 of 2

Bid Information	
Par Amount of Bonds	\$17,845,000.00
Reoffering Premium or (Discount)	1,253,998.75
Gross Production	\$19,098,998.75
Total Underwriter's Discount (0.948%)	\$(169,083.78)
Bid (106.080%)	18,929,914.97
Total Purchase Price	\$18,929,914.97
Bond Year Dollars	\$250,646.18
Average Life	14.046 Years
Average Coupon	3.1655241%
Net Interest Cost (NIC)	2.7326769%
True Interest Cost (TIC)	2.6457043%

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Debt Service Schedule

Part 1 of 3

Date	Principal	Coupon	Interest	Total P+I
09/26/2019	-	-	-	-
02/01/2020	535,000.00	3.000%	207,465.28	742,465.28
08/01/2020	-	-	290,725.00	290,725.00
02/01/2021	455,000.00	3.000%	290,725.00	745,725.00
08/01/2021	-	-	283,900.00	283,900.00
02/01/2022	470,000.00	3.000%	283,900.00	753,900.00
08/01/2022	-	-	276,850.00	276,850.00
02/01/2023	485,000.00	4.000%	276,850.00	761,850.00
08/01/2023	-	-	267,150.00	267,150.00
02/01/2024	505,000.00	4.000%	267,150.00	772,150.00
08/01/2024	-	-	257,050.00	257,050.00
02/01/2025	530,000.00	5.000%	257,050.00	787,050.00
08/01/2025	-	-	243,800.00	243,800.00
02/01/2026	560,000.00	5.000%	243,800.00	803,800.00
08/01/2026	-	-	229,800.00	229,800.00
02/01/2027	585,000.00	5.000%	229,800.00	814,800.00
08/01/2027	-	-	215,175.00	215,175.00
02/01/2028	615,000.00	5.000%	215,175.00	830,175.00
08/01/2028	-	-	199,800.00	199,800.00
02/01/2029	645,000.00	4.000%	199,800.00	844,800.00
08/01/2029	-	-	186,900.00	186,900.00
02/01/2030	665,000.00	3.000%	186,900.00	851,900.00
08/01/2030	-	-	176,925.00	176,925.00
02/01/2031	690,000.00	3.000%	176,925.00	866,925.00
08/01/2031	-	-	166,575.00	166,575.00
02/01/2032	710,000.00	3.000%	166,575.00	876,575.00
08/01/2032	-	-	155,925.00	155,925.00
02/01/2033	730,000.00	3.000%	155,925.00	885,925.00
08/01/2033	-	-	144,975.00	144,975.00

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Public Finance

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Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Debt Service Schedule

Part 2 of 3

Date	Principal	Coupon	Interest	Total P+I
02/01/2034	755,000.00	3.000%	144,975.00	899,975.00
08/01/2034	-	-	133,650.00	133,650.00
02/01/2035	775,000.00	3.000%	133,650.00	908,650.00
08/01/2035	-	-	122,025.00	122,025.00
02/01/2036	800,000.00	3.000%	122,025.00	922,025.00
08/01/2036	-	-	110,025.00	110,025.00
02/01/2037	825,000.00	3.000%	110,025.00	935,025.00
08/01/2037	-	-	97,650.00	97,650.00
02/01/2038	850,000.00	3.000%	97,650.00	947,650.00
08/01/2038	-	-	84,900.00	84,900.00
02/01/2039	875,000.00	3.000%	84,900.00	959,900.00
08/01/2039	-	-	71,775.00	71,775.00
02/01/2040	900,000.00	3.000%	71,775.00	971,775.00
08/01/2040	-	-	58,275.00	58,275.00
02/01/2041	930,000.00	3.000%	58,275.00	988,275.00
08/01/2041	-	-	44,325.00	44,325.00
02/01/2042	955,000.00	3.000%	44,325.00	999,325.00
08/01/2042	-	-	30,000.00	30,000.00
02/01/2043	985,000.00	3.000%	30,000.00	1,015,000.00
08/01/2043	-	-	15,225.00	15,225.00
02/01/2044	1,015,000.00	3.000%	15,225.00	1,030,225.00
Total	\$17,845,000.00	-	\$7,934,265.28	\$25,779,265.28

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Debt Service Schedule

Part 3 of 3

Yield Statistics	
Bond Year Dollars	\$250,646.18
Average Life	14.046 Years
Average Coupon	3.1655241%
Net Interest Cost (NIC)	2.7326769%
True Interest Cost (TIC)	2.6457043%
Bond Yield for Arbitrage Purposes	-
All Inclusive Cost (AIC)	2.6868281%
IRS Form 8038	
Net Interest Cost	2.5376061%
Weighted Average Maturity	13.783 Years

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Net Debt Service Schedule

Part 1 of 3

Date	Principal	Coupon	Interest	Total P+I	Expenses	DSR	Net New D/S	Fiscal Total
09/26/2019	. morpu	обирон		10001111	=хроносс	20.1	HOUNGH DIE	1014.
02/01/2020	535,000.00	3.000%	207,465.28	742,465.28	1,000.00	-	743,465.28	-
08/01/2020	333,000.00	3.00076	290,725.00	*	1,000.00	-	290,725.00	-
12/31/2020	-	-	290,723.00	290,725.00	-	-	· · · · · · · · · · · · · · · · · · ·	1 024 100 29
	455,000,00	2.0000/	200 725 00	745 725 00	1 000 00	-	746 725 00	1,034,190.28
02/01/2021	455,000.00	3.000%	290,725.00	745,725.00	1,000.00	-	746,725.00	<u>-</u>
08/01/2021	-	-	283,900.00	283,900.00	-	-	283,900.00	-
12/31/2021	- -	-	<u>-</u>		- 	-	-	1,030,625.00
02/01/2022	470,000.00	3.000%	283,900.00	753,900.00	1,000.00	-	754,900.00	-
08/01/2022	-	-	276,850.00	276,850.00	-	-	276,850.00	-
12/31/2022	-	=	-	=	-	-	-	1,031,750.00
02/01/2023	485,000.00	4.000%	276,850.00	761,850.00	1,000.00	-	762,850.00	-
08/01/2023	-	-	267,150.00	267,150.00	-	-	267,150.00	-
12/31/2023	-	-	-	-	-	-	-	1,030,000.00
02/01/2024	505,000.00	4.000%	267,150.00	772,150.00	1,000.00	-	773,150.00	-
08/01/2024	-	-	257,050.00	257,050.00	-	-	257,050.00	-
12/31/2024	-	-	-	-	-	-	-	1,030,200.00
02/01/2025	530,000.00	5.000%	257,050.00	787,050.00	1,000.00	-	788,050.00	-
08/01/2025	-	-	243,800.00	243,800.00	-	-	243,800.00	-
12/31/2025	-	-	_	-	_	_	-	1,031,850.00
02/01/2026	560,000.00	5.000%	243,800.00	803,800.00	1,000.00	-	804,800.00	-
08/01/2026	_	_	229,800.00	229,800.00	_	_	229,800.00	_
12/31/2026	_	_	<u>-</u>	-	<u>-</u>	_	-	1,034,600.00
02/01/2027	585,000.00	5.000%	229,800.00	814,800.00	1,000.00	_	815,800.00	-,
08/01/2027	-	-	215,175.00	215,175.00	-	_	215,175.00	_
12/31/2027	_	_		213,173.00	_	_	213,173.00	1,030,975.00
02/01/2028	615,000.00	5.000%	215,175.00	830,175.00	1,000.00		831,175.00	1,030,773.00
08/01/2028	013,000.00	5.00070	199,800.00	199,800.00	1,000.00	_	199,800.00	_
12/31/2028	-	-	177,000.00	199,000.00	-	-	199,000.00	1,030,975.00
12/31/2020	-	-	-	-	-	-	-	1,030,973.00

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Public Finance

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Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Net Debt Service Schedule

Part 2 of 3

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Date	Principal	Coupon	Interest	Total P+I	Expenses	DSR	Net New D/S	Fiscal Total
08/01/2029 - 186,900.00 186,900.00 - 186,900.00 12/31/2029 - - - - - 1,032,700.00 02/01/2030 665,000.00 3.000% 186,900.00 15,925.00 - 176,925.00 - 08/01/2030 - - 176,925.00 176,925.00 - 176,925.00 - 176,925.00 - 176,925.00 - - 176,925.00 - - 176,925.00 - - 170,925.00 - - 176,925.00 - - 170,925.00 - - 170,925.00 - - 170,925.00 - - - 170,925.00 - - - 170,925.00 - - - 170,925.00 -						•	20.1		· ota:
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		043,000.00	4.00070	,	· · · · · · · · · · · · · · · · · · ·	1,000.00	-	· · · · · · · · · · · · · · · · · · ·	-
02/01/2030 665,000,00 3,000% 186,900,00 851,900,00 1,000,00 - 852,900,00 - 08/01/2030 - - 176,925,00 176,925,00 - - 176,925,00 - 02/01/2031 690,000,00 3,000% 176,925,00 866,925,00 1,000,00 - 867,925,00 - 08/01/2031 - - 166,575,00 166,575,00 - - 166,575,00 - 02/01/2032 710,000,00 3,000% 166,575,00 876,575,00 1,000,00 - 877,575,00 - 08/01/2032 - - 155,925,00 155,925,00 1,000,00 - 877,575,00 - 08/01/2033 730,000,00 3,000% 155,925,00 885,925,00 1,000,00 - 886,925,00 - 08/01/2033 730,000,00 3,000% 144,975,00 885,925,00 1,000,00 - 886,925,00 - 08/01/2034 - - - - <td< td=""><td></td><td><u> </u></td><td><u> </u></td><td>160,900.00</td><td>180,900.00</td><td><u> </u></td><td><u> </u></td><td>,</td><td>1 022 700 00</td></td<>		<u> </u>	<u> </u>	160,900.00	180,900.00	<u> </u>	<u> </u>	,	1 022 700 00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	2 0000/	196,000,00	951 000 00	1 000 00	-		1,032,700.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		663,000.00	3.000%	,	· · · · · · · · · · · · · · · · · · ·	1,000.00	-	· · · · · · · · · · · · · · · · · · ·	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	-	1/0,925.00	1/0,923.00	-	-	,	1 020 925 00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	2.0000/	176.025.00	066 025 00	1 000 00	-		1,029,825.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		690,000.00	3.000%	,		1,000.00	-		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	-	166,575.00	· · · · · · · · · · · · · · · · · · ·	-	-	,	1 024 500 00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	-	-		-	=		1,034,500.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		710,000.00	3.000%	,	· · · · · · · · · · · · · · · · · · ·	1,000.00	-	· · · · · · · · · · · · · · · · · · ·	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	-	155,925.00	155,925.00	-	-	155,925.00	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-	-	-	-	-	-	-	1,033,500.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	02/01/2033	730,000.00	3.000%	155,925.00	885,925.00	1,000.00	-	886,925.00	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	08/01/2033	-	-	144,975.00	144,975.00	-	-	144,975.00	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12/31/2033	-	-	-	-	-	-	-	1,031,900.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	02/01/2034	755,000.00	3.000%	144,975.00	899,975.00	1,000.00	-	900,975.00	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	08/01/2034		-	133,650.00	133,650.00	-	-	133,650.00	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12/31/2034	-	-	-	=	-	-	-	1,034,625.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	02/01/2035	775,000.00	3.000%	133,650.00	908,650.00	1,000.00	-	909,650.00	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	08/01/2035	-	-	122,025.00	122,025.00	-	-	122,025.00	-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12/31/2035	-	-	-	-	-	-	-	1,031,675.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02/01/2036	800,000.00	3.000%	122,025.00	922,025.00	1,000.00	-	923,025.00	-
02/01/2037 825,000.00 3.000% 110,025.00 935,025.00 1,000.00 - 936,025.00 - 08/01/2037 - - 97,650.00 - - 97,650.00 - 12/31/2037 - - - - - - 1,033,675.00	08/01/2036	-	-	110,025.00	110,025.00	-	-	110,025.00	_
08/01/2037 97,650.00 97,650.00 97,650.00 - 12/31/2037 1,033,675.00	12/31/2036	-	=	· <u>-</u>	· =	-	=	· -	1,033,050.00
12/31/2037 1,033,675.00	02/01/2037	825,000.00	3.000%	110,025.00	935,025.00	1,000.00	-	936,025.00	-
12/31/2037 1,033,675.00	08/01/2037	-	-	,	· · · · · · · · · · · · · · · · · · ·	, <u>-</u>	-	· · · · · · · · · · · · · · · · · · ·	-
	12/31/2037	_	_	, <u>-</u>	, <u>-</u>	_	_	-	1.033.675.00
	02/01/2038	850,000.00	3.000%	97,650.00	947,650.00	1,000.00	-	948,650.00	-

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Net Debt Service Schedule

Part 3 of 3

Date	Principal	Coupon	Interest	Total P+I	Expenses	DSR	Net New D/S	Fiscal Total
08/01/2038		-	84,900.00	84,900.00	-	-	84,900.00	_
12/31/2038	=	-	-	· =	=	-	=	1,033,550.00
02/01/2039	875,000.00	3.000%	84,900.00	959,900.00	1,000.00	_	960,900.00	-
08/01/2039	-	-	71,775.00	71,775.00	-	-	71,775.00	-
12/31/2039	=	-	-	=	=	=	=	1,032,675.00
02/01/2040	900,000.00	3.000%	71,775.00	971,775.00	1,000.00	-	972,775.00	-
08/01/2040	-	-	58,275.00	58,275.00	-	-	58,275.00	-
12/31/2040	-	-	-	=	-	-	=	1,031,050.00
02/01/2041	930,000.00	3.000%	58,275.00	988,275.00	1,000.00	-	989,275.00	-
08/01/2041	-	-	44,325.00	44,325.00	-	-	44,325.00	-
12/31/2041	-	-	-	-	-	-	-	1,033,600.00
02/01/2042	955,000.00	3.000%	44,325.00	999,325.00	1,000.00	-	1,000,325.00	-
08/01/2042	-	-	30,000.00	30,000.00	-	-	30,000.00	-
12/31/2042	-	-	-	-	-	-	-	1,030,325.00
02/01/2043	985,000.00	3.000%	30,000.00	1,015,000.00	1,000.00	-	1,016,000.00	-
08/01/2043	-	-	15,225.00	15,225.00	-	-	15,225.00	-
12/31/2043	-	-	-	-	-	-	-	1,031,225.00
02/01/2044	1,015,000.00	3.000%	15,225.00	1,030,225.00	-	(1,033,625.00)	(3,400.00)	-
12/31/2044		<u>-</u>		-		-	<u> </u>	(3,400.00)
Total	\$17,845,000.00	-	\$7,934,265.28	\$25,779,265.28	\$24,000.00	(1,033,625.00)	\$24,769,640.28	

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019 FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Proof of D/S for Arbitrage Purposes

Part 1 of 2

Date	Principal	Interest	Total
09/26/2019	-	-	-
02/01/2020	535,000.00	207,465.28	742,465.28
08/01/2020	-	290,725.00	290,725.00
02/01/2021	455,000.00	290,725.00	745,725.00
08/01/2021	-	283,900.00	283,900.00
02/01/2022	470,000.00	283,900.00	753,900.00
08/01/2022	-	276,850.00	276,850.00
02/01/2023	485,000.00	276,850.00	761,850.00
08/01/2023	-	267,150.00	267,150.00
02/01/2024	505,000.00	267,150.00	772,150.00
08/01/2024	-	257,050.00	257,050.00
02/01/2025	530,000.00	257,050.00	787,050.00
08/01/2025	-	243,800.00	243,800.00
02/01/2026	560,000.00	243,800.00	803,800.00
08/01/2026	-	229,800.00	229,800.00
02/01/2027	585,000.00	229,800.00	814,800.00
08/01/2027	11,720,000.00	215,175.00	11,935,175.00
02/01/2028	-	30,000.00	30,000.00
08/01/2028	-	30,000.00	30,000.00
02/01/2029	-	30,000.00	30,000.00
08/01/2029	-	30,000.00	30,000.00
02/01/2030	-	30,000.00	30,000.00
08/01/2030	-	30,000.00	30,000.00
02/01/2031	-	30,000.00	30,000.00
08/01/2031	-	30,000.00	30,000.00
02/01/2032	-	30,000.00	30,000.00
08/01/2032	-	30,000.00	30,000.00
02/01/2033	-	30,000.00	30,000.00
08/01/2033	-	30,000.00	30,000.00

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019 FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Proof of D/S for Arbitrage Purposes

Part 2 of 2

Date	Principal	Interest	Total
02/01/2034	-	30,000.00	30,000.00
08/01/2034	-	30,000.00	30,000.00
02/01/2035	-	30,000.00	30,000.00
08/01/2035	-	30,000.00	30,000.00
02/01/2036	-	30,000.00	30,000.00
08/01/2036	-	30,000.00	30,000.00
02/01/2037	-	30,000.00	30,000.00
08/01/2037	-	30,000.00	30,000.00
02/01/2038	-	30,000.00	30,000.00
08/01/2038	-	30,000.00	30,000.00
02/01/2039	-	30,000.00	30,000.00
08/01/2039	-	30,000.00	30,000.00
02/01/2040	-	30,000.00	30,000.00
08/01/2040	-	30,000.00	30,000.00
02/01/2041	-	30,000.00	30,000.00
08/01/2041	-	30,000.00	30,000.00
02/01/2042	-	30,000.00	30,000.00
08/01/2042	-	30,000.00	30,000.00
02/01/2043	985,000.00	30,000.00	1,015,000.00
08/01/2043	-	15,225.00	15,225.00
02/01/2044	1,015,000.00	15,225.00	1,030,225.00
Total	\$17,845,000.00	\$5,081,640.28	\$22,926,640.28

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Proof of Bond Yield @ 0.0000000%

Part 1 of 3

Data	Cookflow	DV Footor	Drocont Value	Cumulative
Date	Cashflow	PV Factor	Present Value	PV
09/26/2019	-	1.0000000x	-	-
02/01/2020	742,465.28	1.0000000x	742,465.28	742,465.28
08/01/2020	290,725.00	1.0000000x	290,725.00	1,033,190.28
02/01/2021	745,725.00	1.0000000x	745,725.00	1,778,915.28
08/01/2021	283,900.00	1.0000000x	283,900.00	2,062,815.28
02/01/2022	753,900.00	1.0000000x	753,900.00	2,816,715.28
08/01/2022	276,850.00	1.0000000x	276,850.00	3,093,565.28
02/01/2023	761,850.00	1.0000000x	761,850.00	3,855,415.28
08/01/2023	267,150.00	1.0000000x	267,150.00	4,122,565.28
02/01/2024	772,150.00	1.0000000x	772,150.00	4,894,715.28
08/01/2024	257,050.00	1.0000000x	257,050.00	5,151,765.28
02/01/2025	787,050.00	1.0000000x	787,050.00	5,938,815.28
08/01/2025	243,800.00	1.0000000x	243,800.00	6,182,615.28
02/01/2026	803,800.00	1.0000000x	803,800.00	6,986,415.28
08/01/2026	229,800.00	1.0000000x	229,800.00	7,216,215.28
02/01/2027	814,800.00	1.0000000x	814,800.00	8,031,015.28
08/01/2027	11,935,175.00	1.0000000x	11,935,175.00	19,966,190.28
02/01/2028	30,000.00	1.0000000x	30,000.00	19,996,190.28
08/01/2028	30,000.00	1.0000000x	30,000.00	20,026,190.28
02/01/2029	30,000.00	1.0000000x	30,000.00	20,056,190.28
08/01/2029	30,000.00	1.0000000x	30,000.00	20,086,190.28
02/01/2030	30,000.00	1.0000000x	30,000.00	20,116,190.28
08/01/2030	30,000.00	1.0000000x	30,000.00	20,146,190.28
02/01/2031	30,000.00	1.0000000x	30,000.00	20,176,190.28
08/01/2031	30,000.00	1.0000000x	30,000.00	20,206,190.28
02/01/2032	30,000.00	1.0000000x	30,000.00	20,236,190.28
08/01/2032	30,000.00	1.0000000x	30,000.00	20,266,190.28
02/01/2033	30,000.00	1.0000000x	30,000.00	20,296,190.28

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Proof of Bond Yield @ 0.0000000%

Part 2 of 3

Data	Cashflaw	DV Footon	Dress and Malica	Cumulative
Date	Cashflow	PV Factor	Present Value	<u>PV</u>
08/01/2033	30,000.00	1.0000000x	30,000.00	20,326,190.28
02/01/2034	30,000.00	1.0000000x	30,000.00	20,356,190.28
08/01/2034	30,000.00	1.0000000x	30,000.00	20,386,190.28
02/01/2035	30,000.00	1.0000000x	30,000.00	20,416,190.28
08/01/2035	30,000.00	1.0000000x	30,000.00	20,446,190.28
02/01/2036	30,000.00	1.0000000x	30,000.00	20,476,190.28
08/01/2036	30,000.00	1.0000000x	30,000.00	20,506,190.28
02/01/2037	30,000.00	1.0000000x	30,000.00	20,536,190.28
08/01/2037	30,000.00	1.0000000x	30,000.00	20,566,190.28
02/01/2038	30,000.00	1.0000000x	30,000.00	20,596,190.28
08/01/2038	30,000.00	1.0000000x	30,000.00	20,626,190.28
02/01/2039	30,000.00	1.0000000x	30,000.00	20,656,190.28
08/01/2039	30,000.00	1.0000000x	30,000.00	20,686,190.28
02/01/2040	30,000.00	1.0000000x	30,000.00	20,716,190.28
08/01/2040	30,000.00	1.0000000x	30,000.00	20,746,190.28
02/01/2041	30,000.00	1.0000000x	30,000.00	20,776,190.28
08/01/2041	30,000.00	1.0000000x	30,000.00	20,806,190.28
02/01/2042	30,000.00	1.0000000x	30,000.00	20,836,190.28
08/01/2042	30,000.00	1.0000000x	30,000.00	20,866,190.28
02/01/2043	1,015,000.00	1.0000000x	1,015,000.00	21,881,190.28
08/01/2043	15,225.00	1.0000000x	15,225.00	21,896,415.28
02/01/2044	1,030,225.00	1.0000000x	1,030,225.00	22,926,640.28
Total	\$22,926,640.28	<u> </u>	\$22,926,640.28	-

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019 FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Proof of Bond Yield @ 0.0000000%

Part 3 of 3

Derivation Of Target Amount

Par Amount of Bonds	\$17,845,000.00
Reoffering Premium or (Discount)	1,253,998.75
Original Issue Proceeds	\$19,098,998.75

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Derivation Of Form 8038 Yield Statistics

Part 1 of 2

Maturity	Issuance Value	Coupon	Price	Issuance Price	Exponent	Bond Years
09/26/2019	-	-	-	-	=	-
02/01/2020	535,000.00	3.000%	100.637%	538,407.95	0.3472222x	186,947.20
02/01/2021	455,000.00	3.000%	102.451%	466,152.05	1.3472222x	628,010.40
02/01/2022	470,000.00	3.000%	104.200%	489,740.00	2.3472222x	1,149,528.61
02/01/2023	485,000.00	4.000%	109.158%	529,416.30	3.3472222x	1,772,074.00
02/01/2024	505,000.00	4.000%	111.689%	564,029.45	4.3472222x	2,451,961.36
02/01/2025	530,000.00	5.000%	119.165%	631,574.50	5.3472222x	3,377,169.20
02/01/2026	560,000.00	5.000%	122.333%	685,064.80	6.3472222x	4,348,258.52
02/01/2027	585,000.00	5.000%	125.208%	732,466.80	7.3472222x	5,381,596.35
02/01/2028	615,000.00	5.000%	126.239%	776,369.85	8.3472222x	6,480,531.66
02/01/2029	645,000.00	4.000%	117.228%	756,120.60	9.3472222x	7,067,627.28
02/01/2030	665,000.00	3.000%	108.286%	720,101.90	10.3472222x	7,451,054.38
02/01/2031	690,000.00	3.000%	107.453%	741,425.70	11.3472222x	8,413,122.18
02/01/2032	710,000.00	3.000%	106.777%	758,116.70	12.3472222x	9,360,635.37
02/01/2033	730,000.00	3.000%	105.735%	771,865.50	13.3472222x	10,302,260.35
02/01/2034	755,000.00	3.000%	105.071%	793,286.05	14.3472222x	11,381,451.25
02/01/2035	775,000.00	3.000%	104.412%	809,193.00	15.3472222x	12,418,864.79
02/01/2036	800,000.00	3.000%	104.048%	832,384.00	16.3472222x	13,607,166.22
02/01/2037	825,000.00	3.000%	103.468%	853,611.00	17.3472222x	14,807,779.71
02/01/2038	850,000.00	3.000%	103.180%	877,030.00	18.3472222x	16,091,064.31
02/01/2039	875,000.00	3.000%	102.892%	900,305.00	19.3472222x	17,418,400.90
02/01/2040	900,000.00	3.000%	102.248%	920,232.00	20.3472222x	18,724,165.00
02/01/2041	930,000.00	3.000%	102.035%	948,925.50	21.3472222x	20,256,923.52
02/01/2042	955,000.00	3.000%	101.822%	972,400.10	22.3472222x	21,730,441.12
02/01/2043	985,000.00	3.000%	101.539%	1,000,159.15	23.3472222x	23,350,937.93
02/01/2044	1,015,000.00	3.000%	101.539%	1,030,620.85	24.3472222x	25,092,754.86
Total	\$17,845,000.00	-	-	\$19,098,998.75	-	\$263,250,726.49

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019 FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Derivation Of Form 8038 Yield Statistics

Part 2 of 2

Description of Bonds	
Final Maturity Date	2/01/2044
Issue price of entire issue	19,098,998.75
Stated Redemption at Maturity	17,845,000.00
Weighted Average Maturity = Bond Years/Issue Price	13.783 Years
Bond Yield for Arbitrage Purposes	<u>-</u>
Uses of Proceeds of Issue	
Proceeds used for accrued interest	<u> </u>
Proceeds used for bond issuance costs (including underwriters' discount)	236,150.28
Proceeds used for credit enhancement	<u> </u>
Proceeds allocated to reasonably required reserve or replacement fund	_
Description of Refunded Bonds	
Proceeds used to currently refund prior issue	17,825,002.23
Proceeds used to advance refund prior issue	<u>-</u>
Remaining weighted average maturity of the bonds to be currently refunded	0.514 Years
Remaining weighted average maturity of the bonds to be advance refunded	<u>-</u>
Last date on which the refunded bonds will be called	10/01/2019

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019 FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Form 8038 Refunded Bonds

Date	Type of Bond	Coupon	FV Principal	Price	Issue Price
SERIES 2019 BAN F	FINAL REVISED				
04/01/2020	Serial Coupon	2.290%	17,621,000.00	100.000%	17,621,000.00
Subtotal		-	\$17,621,000.00	-	\$17,621,000.00
Total		-	\$17,621,000.00	-	\$17,621,000.00

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019 FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Proof of Reserve Fund Requirement

Part 1 of 2

Date	Principal	Interest	TOTAL P+I
12/31/2019	-	-	-
12/31/2020	535,000.00	498,190.28	1,033,190.28
12/31/2021	455,000.00	574,625.00	1,029,625.00
12/31/2022	470,000.00	560,750.00	1,030,750.00
12/31/2023	485,000.00	544,000.00	1,029,000.00
12/31/2024	505,000.00	524,200.00	1,029,200.00
12/31/2025	530,000.00	500,850.00	1,030,850.00
12/31/2026	560,000.00	473,600.00	1,033,600.00
12/31/2027	585,000.00	444,975.00	1,029,975.00
12/31/2028	615,000.00	414,975.00	1,029,975.00
12/31/2029	645,000.00	386,700.00	1,031,700.00
12/31/2030	665,000.00	363,825.00	1,028,825.00
12/31/2031	690,000.00	343,500.00	1,033,500.00
12/31/2032	710,000.00	322,500.00	1,032,500.00
12/31/2033	730,000.00	300,900.00	1,030,900.00
12/31/2034	755,000.00	278,625.00	1,033,625.00
12/31/2035	775,000.00	255,675.00	1,030,675.00
12/31/2036	800,000.00	232,050.00	1,032,050.00
12/31/2037	825,000.00	207,675.00	1,032,675.00
12/31/2038	850,000.00	182,550.00	1,032,550.00
12/31/2039	875,000.00	156,675.00	1,031,675.00
12/31/2040	900,000.00	130,050.00	1,030,050.00
12/31/2041	930,000.00	102,600.00	1,032,600.00
12/31/2042	955,000.00	74,325.00	1,029,325.00
12/31/2043	985,000.00	45,225.00	1,030,225.00
12/31/2044	1,015,000.00	15,225.00	1,030,225.00
Total	\$17,845,000.00	\$7,934,265.28	\$25,779,265.28

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bonds, Series 2019

FINAL Sold to Piper Jaffray on 09.10.19 Dated & Delivery 09.26.19

Proof of Reserve Fund Requirement

Part 2 of 2

PROOF OF RESERVE FUND	
PROOF OF RESERVE FUND	
MAXIMUM PERIODIC DEBT SERVICE	
100 % of the Maximum Periodic Debt Service	1,033,625.00
AVERAGE PERIODIC DEBT SERVICE	
Total P+I	25,779,265.28
Bond Years (Delivery Date)	24.35
125 % of the Average Periodic Debt Service	1,323,521.89
PERCENT OF PAR	
10 % of Par	1,784,500.00
RESERVE REQUIREMENT	
Computed Requirement	1,033,625.00
Proof's Requirement	1,033,625.00

SERIES 2019 BONDS FINAL | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Revenue Bond Anticipation Notes, Series 2019 Sold to Regions on 03.01.19 Dated & Delivery 03.29.19

Debt Service To Maturity And To Call

	Refunded	Refunded					
Date	Bonds	Interest	D/S To Call	Principal	Coupon	Interest	Refunded D/S
09/26/2019	-	-	-	-	-	-	_
10/01/2019	17,621,000.00	204,002.23	17,825,002.23	-	-	204,002.23	204,002.23
04/01/2020	-	-	-	17,621,000.00	2.290%	201,760.45	17,822,760.45
Total	\$17,621,000.00	\$204,002.23	\$17,825,002.23	\$17,621,000.00	-	\$405,762.68	\$18,026,762.68
Yield Statistic	s						
Base date for Avg.	. Life & Avg. Coupon Calcula	ntion					9/26/2019
Average Life							0.514 Years
Average Coupon							2.2900000%
Weighted Average	Maturity (Par Basis)						0.514 Years
Weighted Average	Maturity (Original Price Bas	is)					0.514 Years
Refunding Bo	nd Information						
Refunding Dated I	Date						9/26/2019
Refunding Deliver	ry Date						9/26/2019

SERIES 2019 BAN FINAL REV | SINGLE PURPOSE | 9/10/2019 | 12:50 PM



Debt Capsule Summary Report

	Original		Interest		
Bond	Par	Amount	Rate	Final	Call
Series	Amount	Outstanding	Range	Maturity	Information
2000 USDA	\$2,287,000	\$1,692,000	5.000%	05/01/39	N/A
2008KIA F08-07	\$4,000,000	\$2,786,450	1.000%	12/01/32	N/A
2010KIA F09-02	\$24,000,000	\$17,773,724	2.000%	06/01/33	N/A
2011	\$30,830,000	\$22,435,000	3.000 - 5.000%	02/01/35	Feb 2021 @ 100%
2012-Ref	\$54,840,000	\$37,825,000	4.000 - 5.000%	02/01/28	Feb 2022 @ 100%
2013	\$26,400,000	\$22,440,000	2.000 - 5.000%	02/01/38	Feb 2023 @ 100%
2013-REF	\$24,120,000	\$14,135,000	5.000 - 4.000%	02/01/28	Aug 2023 @ 100%
2014-REF	\$15,805,000	\$6,155,000	3.125 - 5.000%	02/01/29	Aug 2023 @ 100%
2016-REF	\$41,905,000	\$35,535,000	5.000 - 3.000%	02/01/31	Feb 2026 @ 100%
USDA Loan 91-03	\$1,733,000	\$1,733,000	2.750%	02/01/57	N/A
KIA Fund B 15-003	\$1,392,195	\$1,296,292	0.750%	12/01/37	N/A
KIA Loan F15-011	\$3,535,094	\$3,386,058	1.750%	06/01/38	N/A
KIA Loan F14-015	\$3,545,910	\$3,396,417	1.750%	06/01/38	N/A
Series 2019 Bonds	\$17,845,000	\$17,845,000	3.000 - 5.000%	02/01/44	Feb 2027 @ 100%
Totals:	\$252,238,199	\$188,433,940			
Proposed Debt*					
KIA Loan F13-012	\$8,000,000	\$4,523,000	2.000%		
KIA Loan F16-027	\$2,850,000	\$0_	2.000%		
Total Proposed:	\$10,850,000	\$4,523,000			
Total Existing + Proposed	\$263,088,199	\$192,956,940			

^{*}Assumes KIA Loans funded as of 06/01/19

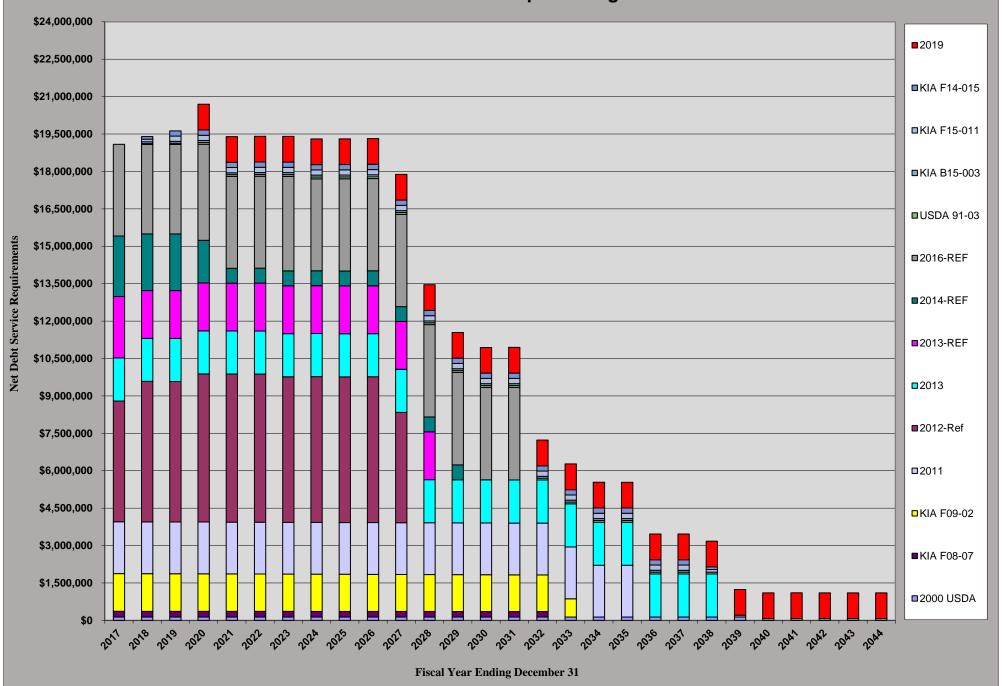
^{*}KIA Loans outstanding balance TBD

Gross Debt Service Structure Report

FY	Series	KIA	KIA	Series	Series	Series	Series	Series	Series	USDA	KIA	KIA	KIA	Series	
Ending	2000 USDA	F08-07	F09-02	2011	2012-Ref	2013	2013-REF	2014-REF	2016-REF	91-03	B15-003	F15-011	F14-015	2019	Debt
Dec 31st	Loan	Loan	Loan	Bonds	Bonds	Bonds	Bonds	Bonds	Bonds	Loan	Loan	Loan	Loan	Bonds	Service
2017	\$134,450	\$229,203	\$1,512,357	\$2,078,163	\$4,840,750	\$1,728,400	\$2,463,825	\$2,425,638	\$3,673,831	\$0	\$0	\$0	\$0	\$0	\$19,086,616
2018	\$134,200	\$228,729	\$1,509,699	\$2,073,988	\$5,635,625	\$1,724,725	\$1,918,450	\$2,270,138	\$3,590,400	\$30,619	\$73,364	\$104,439	\$104,241	\$0	\$19,398,616
2019	\$134,825	\$228,251	\$1,506,988	\$2,073,988	\$5,632,500	\$1,728,025	\$1,918,450	\$2,273,638	\$3,587,525	\$47,658	\$75,174	\$210,252	\$210,895	\$0	\$19,628,167
2020	\$134,325	\$227,767	\$1,504,222	\$2,077,663	\$5,937,500	\$1,726,150	\$1,920,325	\$1,711,513	\$3,852,900	\$73,793	\$75,174	\$210,252	\$210,895	\$1,033,190	\$20,695,669
2021	\$134,700	\$227,279	\$1,501,400	\$2,074,663	\$5,939,625	\$1,727,400	\$1,914,075	\$597,888	\$3,680,275	\$73,558	\$75,174	\$210,252	\$210,895	\$1,029,625	\$19,396,808
2022	\$133,950	\$226,786	\$1,498,522	\$2,074,963	\$5,940,750	\$1,726,650	\$1,919,450	\$600,263	\$3,685,900	\$73,801	\$75,174	\$210,252	\$210,895	\$1,030,750	\$19,408,106
2023	\$134,075	\$226,288	\$1,495,585	\$2,073,463	\$5,838,000	\$1,728,775	\$1,916,200 \$1,917,300	\$601,363	\$3,792,525	\$73,524 \$72,727	\$75,174 \$75,174	\$210,252 \$210,252	\$210,895	\$1,029,000	\$19,405,119
2024	\$134,050 \$133,875	\$225,785	\$1,492,590 \$1,490,535	\$2,075,063	\$5,845,750 \$5,841,000	\$1,728,650 \$1,726,275		\$596,663	\$3,687,525	\$73,727 \$73,002	\$75,174 \$75,174	\$210,252	\$210,895	\$1,029,200	\$19,302,624 \$19,306,860
2025 2026	\$133,550	\$225,277 \$224,764	\$1,489,535 \$1,486,418	\$2,074,663 \$2,076,325	\$5,841,000 \$5,848,125	\$1,726,275 \$1,726,525	\$1,918,200 \$1,916,500	\$598,938 \$602,838	\$3,698,025 \$3,701,025	\$73,902 \$73,556	\$75,174 \$75,174	\$210,232	\$210,895 \$210,895	\$1,030,850 \$1,033,600	\$19,306,860
2020	\$133,330 \$134,050	\$224,704	\$1,483,238	\$2,070,323	\$4,422,875	\$1,720,525	\$1,918,000	\$593,788	\$3,701,400	\$73,530	\$75,174	\$210,252	\$210,895	\$1,029,975	\$17,881,252
2028	\$133,375	\$223,723	\$1,479,995	\$2,078,375	φτ,τ22,073	\$1,726,025	\$1,916,750	\$596,988	\$3,702,650	\$73,796	\$75,174	\$210,252	\$210,895	\$1,029,975	\$13,457,973
2029	\$133,525	\$223,194	\$1,476,686	\$2,075,050		\$1,725,725	ψ1,510,750	\$599,219	\$3,709,650	\$73,382	\$75,174	\$210,252	\$210,895	\$1,031,700	\$11,544,452
2030	\$133,475	\$222,660	\$1,473,311	\$2,076,975		\$1,728,525		++, -	\$3,707,975	\$73,447	\$75,174	\$210,252	\$210,895	\$1,028,825	\$10,941,515
2031	\$133,225	\$222,121	\$1,469,868	\$2,073,850		\$1,728,541			\$3,714,900	\$73,484	\$75,174	\$210,252	\$210,895	\$1,033,500	\$10,945,811
2032	\$133,750	\$221,576	\$1,466,356	\$2,077,875		\$1,728,181			,	\$73,494	\$75,174	\$210,252	\$210,895	\$1,032,500	\$7,230,054
2033	\$133,050		\$731,839	\$2,078,375		\$1,727,881				\$73,477	\$75,174	\$210,252	\$210,895	\$1,030,900	\$6,271,844
2034	\$134,100			\$2,074,375		\$1,726,669				\$73,432	\$75,174	\$210,252	\$210,895	\$1,033,625	\$5,538,522
2035	\$133,875			\$2,075,625		\$1,725,550				\$73,359	\$75,174	\$210,252	\$210,895	\$1,030,675	\$5,535,406
2036	\$133,400					\$1,727,747				\$73,753	\$75,174	\$210,252	\$210,895	\$1,032,050	\$3,463,271
2037	\$133,650					\$1,726,250				\$73,611	\$75,174	\$210,252	\$210,895	\$1,032,675	\$3,462,507
2038	\$133,600					\$1,725,913				\$73,443		\$105,126	\$105,448	\$1,032,550	\$3,176,078
2039	\$133,250									\$73,246				\$1,031,675	\$1,238,171
2040										\$73,516				\$1,030,050	\$1,103,566
2041										\$73,251				\$1,032,600	\$1,105,851
2042										\$73,451				\$1,029,325	\$1,102,776
2043 2044										\$73,611 \$73,236				\$1,030,225 \$1,030,225	\$1,103,836 \$1,103,461
2044										\$73,236 \$73,326				\$1,030,223	\$1,103,461
2045										\$73,320 \$73,376					\$73,326 \$73,376
2047										\$73,384					\$73,384
2048										\$73,351					\$73,351
2049										\$73,276					\$73,276
2050										\$73,161					\$73,161
2051										\$73,004					\$73,004
2052										\$73,299					\$73,299
2053										\$73,046					\$73,046
2054										\$73,244					\$73,244
2055										\$73,388					\$73,388
2056										\$72,984					\$72,984
2057										\$74,511					\$74,511
Totals:	\$3,078,325	\$3,607,650	\$24,578,610	\$39,437,481	\$61,722,500	\$37,998,206	\$23,557,525	\$14,068,869	\$55,486,506	\$2,870,164	\$1,501,677	\$4,204,350	\$4,216,696	\$25,779,265	\$302,107,825

Note: KIA Loan debt service does not include servicing fee

Northern Kentucky Water District Gross Debt Service Structure Graph Through Fiscal 2044



FY	Series	Series	Series	Series	Series	Series	Series	USDA	Series	
Ending	2000 USDA	2011	2012-Ref	2013	2013-REF	2014-REF	2016-REF	91-03	2019	Debt
Dec 31st	Loan	Bonds	Bonds	Bonds	Bonds	Bonds	Bonds	Loan	Bonds	Service
2017	\$134,450	\$2,078,163	\$4,840,750	\$1,728,400	\$2,463,825	\$2,425,638	\$3,673,831	\$0		\$17,345,05
2018	\$134,200	\$2,073,988	\$5,635,625	\$1,724,725	\$1,918,450	\$2,270,138	\$3,590,400	\$30,619		\$17,378,14
2019	\$134,825	\$2,073,988	\$5,632,500	\$1,728,025	\$1,918,450	\$2,273,638	\$3,587,525	\$47,658		\$17,396,60
2020	\$134,325	\$2,077,663	\$5,937,500	\$1,726,150	\$1,920,325	\$1,711,513	\$3,852,900	\$73,793	\$1,033,190	\$18,467,35
2021	\$134,700	\$2,074,663	\$5,939,625	\$1,727,400	\$1,914,075	\$597,888	\$3,680,275	\$73,558	\$1,029,625	\$17,171,80
2022	\$133,950	\$2,074,963	\$5,940,750	\$1,726,650	\$1,919,450	\$600,263	\$3,685,900	\$73,801	\$1,030,750	\$17,186,47
2023	\$134,075	\$2,073,463	\$5,838,000	\$1,728,775	\$1,916,200	\$601,363	\$3,792,525	\$73,524	\$1,029,000	\$17,186,92
2024	\$134,050	\$2,075,063	\$5,845,750	\$1,728,650	\$1,917,300	\$596,663	\$3,687,525	\$73,727	\$1,029,200	\$17,087,92
2025	\$133,875	\$2,074,663	\$5,841,000	\$1,726,275	\$1,918,200	\$598,938	\$3,698,025	\$73,902	\$1,030,850	\$17,095,72
2026	\$133,550	\$2,076,325	\$5,848,125	\$1,726,525	\$1,916,500	\$602,838	\$3,701,025	\$73,556	\$1,033,600	\$17,112,04
2027	\$134,050	\$2,074,044	\$4,422,875	\$1,729,625	\$1,918,000	\$593,788	\$3,701,400	\$73,690	\$1,029,975	\$15,677,44
2028	\$133,375	\$2,078,375		\$1,726,025	\$1,916,750	\$596,988	\$3,702,650	\$73,796	\$1,029,975	\$11,257,93
2029	\$133,525	\$2,075,050		\$1,725,725		\$599,219	\$3,709,650	\$73,382	\$1,031,700	\$9,348,25
2030	\$133,475	\$2,076,975		\$1,728,525			\$3,707,975	\$73,447	\$1,028,825	\$8,749,22
2031	\$133,225	\$2,073,850		\$1,728,541			\$3,714,900	\$73,484	\$1,033,500	\$8,757,50
2032	\$133,750	\$2,077,875		\$1,728,181				\$73,494	\$1,032,500	\$5,045,80
2033	\$133,050	\$2,078,375		\$1,727,881				\$73,477	\$1,030,900	\$5,043,68
2034	\$134,100	\$2,074,375		\$1,726,669				\$73,432	\$1,033,625	\$5,042,20
2035	\$133,875	\$2,075,625		\$1,725,550				\$73,359	\$1,030,675	\$5,039,08
2036	\$133,400			\$1,727,747				\$73,753	\$1,032,050	\$2,966,94
2037	\$133,650			\$1,726,250				\$73,611	\$1,032,675	\$2,966,18
2038	\$133,600							\$73,443	\$1,032,550	\$1,239,59
2039	\$133,250							\$73,246	\$1,031,675	\$1,238,17
2040								\$73,516	\$1,030,050	\$1,103,56
2041								\$73,251	\$1,032,600	\$1,105,85
2042								\$73,451	\$1,029,325	\$1,102,77
2043								\$73,611	\$1,030,225	\$1,103,83
2044								\$73,236	\$1,030,225	\$1,103,46
2045								\$73,326		\$73,32
2046								\$73,376		\$73,3
2047								\$73,384		\$73,33
2048								\$73,351		\$73,33
2049								\$73,276		\$73,2
2050								\$73,161		\$73,10
2051								\$73,004		\$73,00
2052								\$73,299		\$73,29
2053								\$73,046		\$73,04
2054								\$73,244		\$73,24
2055								\$73,388		\$73,38
2056								\$72,984		\$72,98
2057								\$74,511		\$74,51
Totals:	\$3,078,325	\$39,437,481	\$61,722,500	\$36,272,294	\$23,557,525	\$14,068,869	\$55,486,506	\$2,870,164	\$25,779,265	\$262,272,92

			•								
FY	Series	Series	Series	Series	Series	Series	Series	USDA	Series		Debt
Ending	2000 USDA	2011	2012-Ref	2013	2013-REF	2014-REF	2016-REF	91-03	2019	Outstanding	Retirement
Dec 31st	Loan	Bonds	Bonds	Bonds	Bonds	Bonds	Bonds	Loan	Bonds	Principal	(10 Years)
2017	\$44,000	\$960,000	\$2,530,000	\$665,000	\$1,645,000	\$1,940,000	\$2,455,000	\$0	\$0	\$181,650,000	65.68%
2018	\$46,000	\$985,000	\$3,475,000	\$685,000	\$1,170,000	\$1,880,000	\$1,910,000	\$0	\$0	\$171,499,000	68.92%
2019	\$49,000	\$1,015,000	\$3,650,000	\$720,000	\$1,230,000	\$1,980,000	\$2,005,000	\$0	\$0	\$160,850,000	71.49%
2020	\$51,000	\$1,055,000	\$4,150,000	\$755,000	\$1,295,000	\$1,505,000	\$2,380,000	\$26,500	\$535,000	\$149,097,500	74.02%
2021	\$54,000	\$1,095,000	\$4,365,000	\$795,000	\$1,355,000	\$440,000	\$2,325,000	\$27,000	\$455,000	\$138,186,500	77.32%
2022	\$56,000	\$1,140,000	\$4,590,000	\$835,000	\$1,430,000	\$465,000	\$2,450,000	\$28,000	\$470,000	\$126,722,500	78.34%
2023	\$59,000	\$1,185,000	\$4,720,000	\$880,000	\$1,500,000	\$485,000	\$2,685,000	\$28,500	\$485,000	\$114,695,000	79.61%
2024	\$62,000	\$1,235,000	\$4,970,000	\$925,000	\$1,570,000	\$495,000	\$2,715,000	\$29,500	\$505,000	\$102,188,500	81.28%
2025	\$65,000	\$1,285,000	\$5,220,000	\$970,000	\$1,635,000	\$515,000	\$2,865,000	\$30,500	\$530,000	\$89,073,000	83.50%
2026	\$68,000	\$1,340,000	\$5,495,000	\$1,020,000	\$1,700,000	\$540,000	\$3,015,000	\$31,000	\$560,000	\$75,304,000	83.82%
2027	\$72,000	\$1,395,000	\$4,315,000	\$1,070,000	\$1,780,000	\$550,000	\$3,170,000	\$32,000	\$585,000	\$62,335,000	84.63%
2028	\$75,000	\$1,460,000		\$1,110,000	\$1,870,000	\$570,000	\$3,300,000	\$33,000	\$615,000	\$53,302,000	87.10%
2029	\$79,000	\$1,520,000		\$1,155,000		\$590,000	\$3,425,000	\$33,500	\$645,000	\$45,854,500	87.29%
2030	\$83,000	\$1,590,000		\$1,205,000			\$3,545,000	\$34,500	\$665,000	\$38,732,000	87.40%
2031	\$87,000	\$1,660,000		\$1,255,000			\$3,660,000	\$35,500	\$690,000	\$31,344,500	87.54%
2032	\$92,000	\$1,745,000		\$1,310,000				\$36,500	\$710,000	\$27,451,000	89.43%
2033	\$96,000	\$1,835,000		\$1,370,000				\$37,500	\$730,000	\$23,382,500	92.02%
2034	\$102,000	\$1,925,000		\$1,430,000				\$38,500	\$755,000	\$19,132,000	95.81%
2035	\$107,000	\$2,025,000		\$1,490,000				\$39,500	\$775,000	\$14,695,500	94.90%
2036	\$112,000			\$1,555,000				\$41,000	\$800,000	\$12,187,500	94.29%
2037	\$118,000			\$1,620,000				\$42,000	\$825,000	\$9,582,500	93.31%
2038	\$124,000			\$1,690,000				\$43,000	\$850,000	\$6,875,500	91.50%
2039	\$130,000							\$44,000	\$875,000	\$5,826,500	90.96%
2040								\$45,500	\$900,000	\$4,881,000	90.43%
2041								\$46,500	\$930,000	\$3,904,500	89.60%
2042								\$48,000	\$955,000	\$2,901,500	88.18%
2043								\$49,500	\$985,000	\$1,867,000	85.08%
2044								\$50,500	\$1,015,000	\$801,500	73.55%
2045								\$52,000		\$749,500	80.85%
2046								\$53,500		\$696,000	89.44%
2047								\$55,000		\$641,000	100.00%
2048								\$56,500		\$584,500	
2049								\$58,000		\$526,500	
2050								\$59,500		\$467,000	
2051								\$61,000		\$406,000	
2052								\$63,000		\$343,000	
2053								\$64,500		\$278,500	
2054								\$66,500		\$212,000	
2055								\$68,500		\$143,500	
2056								\$70,000		\$73,500	
2057								\$73,500		\$0	
Totals:	\$1,831,000	\$26,450,000	\$47,480,000	\$24,510,000	\$18,180,000	\$11,955,000	\$41,905,000	\$1,733,000	\$17,845,000		