

## City of Charles Town, West Virginia

Combined Waterworks & Sewerage System Refunding Revenue Bonds, Series 2018 B

FINAL: Priced by Crews & Associates on 12.18.18.- Delivery on 12.27.18

( BAM/Non-Rated - Bank Qualified )

## Sources & Uses

Dated 12/27/2018 | Delivered 12/27/2018

### Sources Of Funds

Par Amount of Bonds	\$3,065,000.00
Transfers from Prior Issue Debt Service Funds	117,333.83
Transfers from Prior Issue DSR Funds	304,207.80
<b>Total Sources</b>	<b>\$3,486,541.63</b>

### Uses Of Funds

Original Issue Discount (OID)	15,362.85
Total Underwriter's Discount (1.457%)	44,660.00
Costs of Issuance	179,565.59
Gross Bond Insurance Premium ( .50.0 bp)	19,606.35
Surety Bond	9,961.25
Discharge Series 2010 A Bonds	1,220,059.88
Discharge Series 2013 A Bonds	1,195,496.39
Discharge Series 2015 Bank Loan	551,829.32
System Acquisition Expenses	250,000.00
<b>Total Uses</b>	<b>\$3,486,541.63</b>

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## Pricing Summary

<b>Maturity</b>	<b>Type of Bond</b>	<b>Coupon</b>	<b>Yield</b>	<b>Maturity Value</b>	<b>Price</b>	<b>Dollar Price</b>
06/01/2020	Serial Coupon	2.250%	2.250%	175,000.00	100.000%	175,000.00
06/01/2022	Term 1 Coupon	2.500%	2.500%	355,000.00	100.000%	355,000.00
06/01/2024	Term 2 Coupon	2.750%	2.750%	375,000.00	100.000%	375,000.00
06/01/2026	Term 3 Coupon	3.000%	3.050%	400,000.00	99.668%	398,672.00
06/01/2028	Term 4 Coupon	3.000%	3.160%	425,000.00	98.702%	419,483.50
06/01/2030	Term 5 Coupon	3.250%	3.310%	465,000.00	99.431%	462,354.15
06/01/2033	Term 6 Coupon	3.500%	3.560%	870,000.00	99.325%	864,127.50
<b>Total</b>	-	-	-	<b>\$3,065,000.00</b>	-	<b>\$3,049,637.15</b>

### Bid Information

Par Amount of Bonds	\$3,065,000.00
Reoffering Premium or (Discount)	(15,362.85)
Gross Production	\$3,049,637.15
Total Underwriter's Discount (1.457%)	\$(44,660.00)
Bid (98.042%)	3,004,977.15
Total Purchase Price	\$3,004,977.15
Bond Year Dollars	\$26,551.14
Average Life	8.663 Years
Average Coupon	3.2249859%
Net Interest Cost (NIC)	3.4510510%
True Interest Cost (TIC)	3.4804025%

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**Summary Of Underwriter's Discount**

<b>Maturity</b>	<b>Concession</b>	<b>+ Takedown</b>	<b>= Total</b>	<b>Issuance Value</b>	<b>Total Takedown</b>
06/01/2020	-	1.400%	1.400%	175,000.00	2,450.00
06/01/2022	-	1.400%	1.400%	355,000.00	4,970.00
06/01/2024	-	1.400%	1.400%	375,000.00	5,250.00
06/01/2026	-	1.400%	1.400%	400,000.00	5,600.00
06/01/2028	-	1.400%	1.400%	425,000.00	5,950.00
06/01/2030	-	1.400%	1.400%	465,000.00	6,510.00
06/01/2033	-	1.400%	1.400%	870,000.00	12,180.00
<b>Total</b>	-	-	-	<b>\$3,065,000.00</b>	<b>\$42,910.00</b>

**Underwriting & Issuance Expenses**

Total Average Takedown (1.400%)	\$42,910.00
Total Underwriters Expenses (0.057%)	\$1,750.00
<b>TOTAL UNDERWRITING SPREAD (1.457%)</b>	<b>\$44,660.00</b>

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## Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+I
06/01/2019	-	-	39,970.49	39,970.49
12/01/2019	-	-	46,718.75	46,718.75
06/01/2020	175,000.00	2.250%	46,718.75	221,718.75
12/01/2020	-	-	44,750.00	44,750.00
06/01/2021	175,000.00	2.500%	44,750.00	219,750.00
12/01/2021	-	-	42,562.50	42,562.50
06/01/2022	180,000.00	2.500%	42,562.50	222,562.50
12/01/2022	-	-	40,312.50	40,312.50
06/01/2023	185,000.00	2.750%	40,312.50	225,312.50
12/01/2023	-	-	37,768.75	37,768.75
06/01/2024	190,000.00	2.750%	37,768.75	227,768.75
12/01/2024	-	-	35,156.25	35,156.25
06/01/2025	195,000.00	3.000%	35,156.25	230,156.25
12/01/2025	-	-	32,231.25	32,231.25
06/01/2026	205,000.00	3.000%	32,231.25	237,231.25
12/01/2026	-	-	29,156.25	29,156.25
06/01/2027	210,000.00	3.000%	29,156.25	239,156.25
12/01/2027	-	-	26,006.25	26,006.25
06/01/2028	215,000.00	3.000%	26,006.25	241,006.25
12/01/2028	-	-	22,781.25	22,781.25
06/01/2029	220,000.00	3.250%	22,781.25	242,781.25
12/01/2029	-	-	19,206.25	19,206.25
06/01/2030	245,000.00	3.250%	19,206.25	264,206.25
12/01/2030	-	-	15,225.00	15,225.00
06/01/2031	260,000.00	3.500%	15,225.00	275,225.00
12/01/2031	-	-	10,675.00	10,675.00
06/01/2032	290,000.00	3.500%	10,675.00	300,675.00
12/01/2032	-	-	5,600.00	5,600.00
06/01/2033	320,000.00	3.500%	5,600.00	325,600.00
<b>Total</b>	<b>\$3,065,000.00</b>	<b>-</b>	<b>\$856,270.49</b>	<b>\$3,921,270.49</b>

### Yield Statistics

Bond Year Dollars	\$26,551.14
Average Life	8.663 Years
Average Coupon	3.2249859%

Net Interest Cost (NIC)	3.4510510%
True Interest Cost (TIC)	3.4804025%
Bond Yield for Arbitrage Purposes	3.4117061%
All Inclusive Cost (AIC)	4.4844900%

### IRS Form 8038

Net Interest Cost	3.3035941%
Weighted Average Maturity	8.652 Years

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Compass Municipal Advisors, LLC  
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**Term Yields by Sinking Fund Dates for Term 1**

<b>Term Sinking Date</b>	<b>Maturity Value</b>	<b>Yield</b>
06/01/2021	175,000.00	2.5004067%
06/01/2022	180,000.00	2.5002912%
<b>Total</b>	<b>\$355,000.00</b>	<b>-</b>

**Term Summary**

Total Par	355,000.00
Coupon	2.500%
Yield	2.500%
Price	100.000%

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**Term Yields by Sinking Fund Dates for Term 2**

<b>Term Sinking Date</b>	<b>Maturity Value</b>	<b>Yield</b>
06/01/2023	185,000.00	2.7502774%
06/01/2024	190,000.00	2.7502294%
<b>Total</b>	<b>\$375,000.00</b>	<b>-</b>

**Term Summary**

Total Par	375,000.00
Coupon	2.750%
Yield	2.750%
Price	100.000%

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**Term Yields by Sinking Fund Dates for Term 3**

<b>Term Sinking Date</b>	<b>Maturity Value</b>	<b>Discount</b>	<b>Yield</b>
06/01/2025	195,000.00	(647.40)	3.0575249%
06/01/2026	205,000.00	(680.60)	3.0505005%
<b>Total</b>	<b>\$400,000.00</b>	<b>(1,328.00)</b>	<b>-</b>

**Term Summary**

Total Par	400,000.00
Coupon	3.000%
Yield	3.050%
Price	99.668%

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**Term Yields by Sinking Fund Dates for Term 4**

<b>Term Sinking Date</b>	<b>Maturity Value</b>	<b>Discount</b>	<b>Yield</b>
06/01/2027	210,000.00	(2,725.80)	3.1769614%
06/01/2028	215,000.00	(2,790.70)	3.1604614%
<b>Total</b>	<b>\$425,000.00</b>	<b>(5,516.50)</b>	<b>-</b>

**Term Summary**

Total Par	425,000.00
Coupon	3.000%
Yield	3.160%
Price	98.702%



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**Term Yields by Sinking Fund Dates for Term 5**

<b>Term Sinking Date</b>	<b>Maturity Value</b>	<b>Discount</b>	<b>Yield</b>
06/01/2029	220,000.00	(1,251.80)	3.3151726%
06/01/2030	245,000.00	(1,394.05)	3.3103798%
<b>Total</b>	<b>\$465,000.00</b>	<b>(2,645.85)</b>	<b>-</b>

**Term Summary**

Total Par	465,000.00
Coupon	3.250%
Yield	3.310%
Price	99.431%

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**Term Yields by Sinking Fund Dates for Term 6**

<b>Term Sinking Date</b>	<b>Maturity Value</b>	<b>Discount</b>	<b>Yield</b>
06/01/2031	260,000.00	(1,755.00)	3.5679072%
06/01/2032	290,000.00	(1,957.50)	3.5638686%
06/01/2033	320,000.00	(2,160.00)	3.5603997%
<b>Total</b>	<b>\$870,000.00</b>	<b>(5,872.50)</b>	<b>-</b>

**Term Summary**

Total Par	870,000.00
Coupon	3.500%
Yield	3.560%
Price	99.325%

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## Gross Debt Service Comparison

Date	Principal	Coupon	Interest	New D/S	Old D/S	Savings
06/30/2019	-	-	39,970.49	39,970.49	174,492.27	134,521.78
06/30/2020	175,000.00	2.250%	93,437.50	268,437.50	349,109.55	80,672.05
06/30/2021	175,000.00	2.500%	89,500.00	264,500.00	351,984.54	87,484.54
06/30/2022	180,000.00	2.500%	85,125.00	265,125.00	349,109.53	83,984.53
06/30/2023	185,000.00	2.750%	80,625.00	265,625.00	346,079.55	80,454.55
06/30/2024	190,000.00	2.750%	75,537.50	265,537.50	347,729.53	82,192.03
06/30/2025	195,000.00	3.000%	70,312.50	265,312.50	348,247.05	82,934.55
06/30/2026	205,000.00	3.000%	64,462.50	269,462.50	348,200.17	78,737.67
06/30/2027	210,000.00	3.000%	58,312.50	268,312.50	352,637.67	84,325.17
06/30/2028	215,000.00	3.000%	52,012.50	267,012.50	351,222.06	84,209.56
06/30/2029	220,000.00	3.250%	45,562.50	265,562.50	204,387.66	(61,174.84)
06/30/2030	245,000.00	3.250%	38,412.50	283,412.50	56,215.80	(227,196.70)
06/30/2031	260,000.00	3.500%	30,450.00	290,450.00	23,423.24	(267,026.76)
06/30/2032	290,000.00	3.500%	21,350.00	311,350.00	-	(311,350.00)
06/30/2033	320,000.00	3.500%	11,200.00	331,200.00	-	(331,200.00)
<b>Total</b>	<b>\$3,065,000.00</b>	<b>-</b>	<b>\$856,270.49</b>	<b>\$3,921,270.49</b>	<b>\$3,602,838.62</b>	<b>(318,431.87)</b>

### PV Analysis Summary (Gross to Gross)

Gross PV Debt Service Savings	11,800.72
Transfers from Prior Issue Debt Service Fund	(117,333.83)
Transfers from Prior Issue DSR Fund	(304,207.80)
Amount deposited into Construction Fund	250,000.00
Net Present Value Loss	\$(159,740.91)
Net PV Loss / \$2,945,430 Refunded Principal	(5.423%)
Net PV Loss / \$3,065,000 Refunding Principal	(5.212%)

### Refunding Bond Information

Refunding Dated Date	12/27/2018
Refunding Delivery Date	12/27/2018

## City of Charles Town, West Virginia

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## Debt Service Comparison

Date	Total P+I	Net New D/S	Old Net D/S	Savings
06/30/2019	39,970.49	39,970.49	174,492.27	134,521.78
06/30/2020	268,437.50	268,437.50	349,109.55	80,672.05
06/30/2021	264,500.00	264,500.00	351,984.54	87,484.54
06/30/2022	265,125.00	265,125.00	349,109.53	83,984.53
06/30/2023	265,625.00	265,625.00	346,079.55	80,454.55
06/30/2024	265,537.50	265,537.50	347,729.53	82,192.03
06/30/2025	265,312.50	265,312.50	348,247.05	82,934.55
06/30/2026	269,462.50	269,462.50	348,200.17	78,737.67
06/30/2027	268,312.50	268,312.50	352,637.67	84,325.17
06/30/2028	267,012.50	267,012.50	205,222.06	(61,790.44)
06/30/2029	265,562.50	265,562.50	50,531.66	(215,030.84)
06/30/2030	283,412.50	283,412.50	56,215.80	(227,196.70)
06/30/2031	290,450.00	290,450.00	23,423.24	(267,026.76)
06/30/2032	311,350.00	311,350.00	-	(311,350.00)
06/30/2033	331,200.00	331,200.00	-	(331,200.00)
<b>Total</b>	<b>\$3,921,270.49</b>	<b>\$3,921,270.49</b>	<b>\$3,302,982.62</b>	<b>(618,287.87)</b>

### PV Analysis Summary (Net to Net)

Gross PV Debt Service Savings	11,800.72
Effects of changes in DSR investments	(216,717.97)
Net PV Cashflow Savings @ 3.412%(Bond Yield)	(204,917.26)
Transfers from Prior Issue Debt Service Fund	(117,333.83)
Amount deposited into Construction Fund	250,000.00
Net Present Value Loss	\$(72,251.09)
Net PV Loss / \$2,945,430 Refunded Principal	(2.453%)
Net PV Loss / \$3,065,000 Refunding Principal	(2.357%)

### Refunding Bond Information

Refunding Dated Date	12/27/2018
Refunding Delivery Date	12/27/2018

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**Proof of Reserve Fund Requirement**

<b>Date</b>	<b>Principal</b>	<b>Interest</b>	<b>TOTAL P+I</b>
06/30/2019	-	39,970.49	39,970.49
06/30/2020	175,000.00	93,437.50	268,437.50
06/30/2021	175,000.00	89,500.00	264,500.00
06/30/2022	180,000.00	85,125.00	265,125.00
06/30/2023	185,000.00	80,625.00	265,625.00
06/30/2024	190,000.00	75,537.50	265,537.50
06/30/2025	195,000.00	70,312.50	265,312.50
06/30/2026	205,000.00	64,462.50	269,462.50
06/30/2027	210,000.00	58,312.50	268,312.50
06/30/2028	215,000.00	52,012.50	267,012.50
06/30/2029	220,000.00	45,562.50	265,562.50
06/30/2030	245,000.00	38,412.50	283,412.50
06/30/2031	260,000.00	30,450.00	290,450.00
06/30/2032	290,000.00	21,350.00	311,350.00
06/30/2033	320,000.00	11,200.00	331,200.00
<b>Total</b>	<b>\$3,065,000.00</b>	<b>\$856,270.49</b>	<b>\$3,921,270.49</b>

**PROOF OF RESERVE FUND**

**MAXIMUM PERIODIC DEBT SERVICE**

100 % of the Maximum Periodic Debt Service	331,200.00
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**AVERAGE PERIODIC DEBT SERVICE**

Total P+I	3,921,270.49
Bond Years (Delivery Date)	14.43
125 % of the Average Periodic Debt Service	339,732.71

**PERCENT OF PAR**

10 % of Par	306,500.00
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**RESERVE REQUIREMENT**

Computed Requirement	306,500.00
Proof's Requirement	306,500.00

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**Proof of Bond Yield @ 3.4117061%**

Date	Cashflow	PV Factor	Present Value	Cumulative PV
12/27/2018	-	1.000000x	-	-
06/01/2019	39,970.49	0.9856328x	39,396.22	39,396.22
12/01/2019	46,718.75	0.9691013x	45,275.20	84,671.43
06/01/2020	221,718.75	0.9528472x	211,264.08	295,935.51
12/01/2020	44,750.00	0.9368656x	41,924.74	337,860.24
06/01/2021	219,750.00	0.9211521x	202,423.17	540,283.42
12/01/2021	42,562.50	0.9057022x	38,548.95	578,832.37
06/01/2022	222,562.50	0.8905113x	198,194.43	777,026.79
12/01/2022	40,312.50	0.8755753x	35,296.63	812,323.42
06/01/2023	225,312.50	0.8608898x	193,969.23	1,006,292.66
12/01/2023	37,768.75	0.8464506x	31,969.38	1,038,262.04
06/01/2024	227,768.75	0.8322536x	189,561.36	1,227,823.39
12/01/2024	35,156.25	0.8182947x	28,768.17	1,256,591.56
06/01/2025	230,156.25	0.8045699x	185,176.79	1,441,768.35
12/01/2025	32,231.25	0.7910753x	25,497.35	1,467,265.70
06/01/2026	237,231.25	0.7778071x	184,520.14	1,651,785.84
12/01/2026	29,156.25	0.7647614x	22,297.57	1,674,083.41
06/01/2027	239,156.25	0.7519345x	179,829.82	1,853,913.24
12/01/2027	26,006.25	0.7393227x	19,227.01	1,873,140.25
06/01/2028	241,006.25	0.7269225x	175,192.86	2,048,333.10
12/01/2028	22,781.25	0.7147302x	16,282.45	2,064,615.55
06/01/2029	242,781.25	0.7027425x	170,612.69	2,235,228.25
12/01/2029	19,206.25	0.6909558x	13,270.67	2,248,498.92
06/01/2030	264,206.25	0.6793668x	179,492.95	2,427,991.87
12/01/2030	15,225.00	0.6679722x	10,169.88	2,438,161.74
06/01/2031	275,225.00	0.6567686x	180,759.15	2,618,920.89
12/01/2031	10,675.00	0.6457530x	6,893.41	2,625,814.31
06/01/2032	300,675.00	0.6349222x	190,905.23	2,816,719.54
12/01/2032	5,600.00	0.6242730x	3,495.93	2,820,215.47
06/01/2033	325,600.00	0.6138025x	199,854.08	3,020,069.55
<b>Total</b>	<b>\$3,921,270.49</b>	<b>-</b>	<b>\$3,020,069.55</b>	<b>-</b>

**Derivation Of Target Amount**

Par Amount of Bonds	\$3,065,000.00
Reoffering Premium or (Discount)	(15,362.85)
Bond Insurance Premium..... ( 50.0 bp)	(19,606.35)
Other Credit Enhancement Fees	(9,961.25)
<b>Original Issue Proceeds</b>	<b>\$3,020,069.55</b>

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FINAL: Priced by Crews & Associates on 12.18.18.- Delivery on 12.27.18

( BAM/Non-Rated - Bank Qualified )

## Derivation Of Form 8038 Yield Statistics

<b>Maturity</b>	<b>Issuance Value</b>	<b>Coupon</b>	<b>Price</b>	<b>Issuance Price</b>	<b>Exponent</b>	<b>Bond Years</b>
12/27/2018	-	-	-	-	-	-
06/01/2020	175,000.00	2.250%	100.000%	175,000.00	1.4277778x	249,861.11
06/01/2021	175,000.00	2.500%	100.000%	175,000.00	2.4277778x	424,861.11
06/01/2022	180,000.00	2.500%	100.000%	180,000.00	3.4277778x	617,000.00
06/01/2023	185,000.00	2.750%	100.000%	185,000.00	4.4277778x	819,138.89
06/01/2024	190,000.00	2.750%	100.000%	190,000.00	5.4277778x	1,031,277.78
06/01/2025	195,000.00	3.000%	99.668%	194,352.60	6.4277778x	1,249,255.32
06/01/2026	205,000.00	3.000%	99.668%	204,319.40	7.4277778x	1,517,639.10
06/01/2027	210,000.00	3.000%	98.702%	207,274.20	8.4277778x	1,746,860.90
06/01/2028	215,000.00	3.000%	98.702%	212,209.30	9.4277778x	2,000,662.12
06/01/2029	220,000.00	3.250%	99.431%	218,748.20	10.4277778x	2,281,057.62
06/01/2030	245,000.00	3.250%	99.431%	243,605.95	11.4277778x	2,783,874.66
06/01/2031	260,000.00	3.500%	99.325%	258,245.00	12.4277778x	3,209,411.47
06/01/2032	290,000.00	3.500%	99.325%	288,042.50	13.4277778x	3,867,770.68
06/01/2033	320,000.00	3.500%	99.325%	317,840.00	14.4277778x	4,585,724.89
<b>Total</b>	<b>\$3,065,000.00</b>	<b>-</b>	<b>-</b>	<b>\$3,049,637.15</b>	<b>-</b>	<b>\$26,384,395.65</b>

### Description of Bonds

Final Maturity Date	6/01/2033
Issue price of entire issue	3,049,637.15
Stated Redemption at Maturity	3,065,000.00
Weighted Average Maturity = Bond Years/Issue Price	8.652 Years
Bond Yield for Arbitrage Purposes	3.4117061%

### Uses of Proceeds of Issue

Proceeds used for accrued interest	-
Proceeds used for bond issuance costs (including underwriters' discount)	224,225.59
Proceeds used for credit enhancement	(29,567.60)
Proceeds allocated to reasonably required reserve or replacement fund	-

### Description of Refunded Bonds

Proceeds used to currently refund prior issue	2,967,385.59
Proceeds used to advance refund prior issue	-
Remaining weighted average maturity of the bonds to be currently refunded	5.588 Years
Remaining weighted average maturity of the bonds to be advance refunded	-
Last date on which the refunded bonds will be called	1/18/2019

## City of Charles Town, West Virginia

### Combined Waterworks & Sewerage System Refunding Revenue Bonds, Series 2018 B

FINAL: Priced by Crews & Associates on 12.18.18.- Delivery on 12.27.18

( BAM/Non-Rated - Bank Qualified )

## Form 8038 Refunded Bonds

Part 1 of 4

Date	Type of Bond	Coupon	FV Principal	Price	Issue Price
<b>JCPSD 2010A</b>					
10/01/2019	Term 3 Coupon	3.750%	100,000.00	100.000%	100,000.00
10/01/2020	Term 4 Coupon	4.000%	105,000.00	100.000%	105,000.00
10/01/2021	Term 4 Coupon	4.000%	110,000.00	100.000%	110,000.00
10/01/2022	Term 5 Coupon	4.100%	110,000.00	100.000%	110,000.00
10/01/2023	Term 5 Coupon	4.100%	115,000.00	100.000%	115,000.00
10/01/2024	Term 6 Coupon	4.375%	120,000.00	100.000%	120,000.00
10/01/2025	Term 6 Coupon	4.375%	125,000.00	100.000%	125,000.00
10/01/2026	Term 7 Coupon	4.375%	135,000.00	100.000%	135,000.00
10/01/2027	Term 7 Coupon	4.375%	140,000.00	100.000%	140,000.00
10/01/2028	Term 7 Coupon	4.375%	145,000.00	100.000%	145,000.00
<b>Subtotal</b>		-	<b>\$1,205,000.00</b>	-	<b>\$1,205,000.00</b>
-		-	-	-	-
<b>JCPSD 2013A</b>					
06/01/2019	Term 2 Coupon	3.000%	100,000.00	100.000%	100,000.00
06/01/2020	Term 2 Coupon	3.000%	105,000.00	100.000%	105,000.00
06/01/2021	Term 3 Coupon	3.250%	110,000.00	100.000%	110,000.00
06/01/2022	Term 3 Coupon	3.250%	110,000.00	100.000%	110,000.00
06/01/2023	Term 3 Coupon	3.250%	115,000.00	100.000%	115,000.00
06/01/2024	Term 4 Coupon	3.750%	120,000.00	100.000%	120,000.00
06/01/2025	Term 4 Coupon	3.750%	125,000.00	100.000%	125,000.00
06/01/2026	Term 4 Coupon	3.750%	130,000.00	100.000%	130,000.00
06/01/2027	Term 5 Coupon	4.000%	135,000.00	100.000%	135,000.00
06/01/2028	Term 5 Coupon	4.000%	140,000.00	100.000%	140,000.00
<b>Subtotal</b>		-	<b>\$1,190,000.00</b>	-	<b>\$1,190,000.00</b>
-		-	-	-	-
<b>JCPSD 2015 RF</b>					
01/01/2019	Serial Coupon	3.390%	3,077.85	100.000%	3,077.85
02/01/2019	Serial Coupon	3.390%	3,138.38	100.000%	3,138.38
03/01/2019	Serial Coupon	3.390%	3,147.24	100.000%	3,147.24
04/01/2019	Serial Coupon	3.390%	3,156.14	100.000%	3,156.14
05/01/2019	Serial Coupon	3.390%	3,165.05	100.000%	3,165.05
06/01/2019	Serial Coupon	3.390%	3,173.99	100.000%	3,173.99
07/01/2019	Serial Coupon	3.390%	3,182.96	100.000%	3,182.96
08/01/2019	Serial Coupon	3.390%	3,191.95	100.000%	3,191.95
09/01/2019	Serial Coupon	3.390%	3,200.97	100.000%	3,200.97
10/01/2019	Serial Coupon	3.390%	3,210.01	100.000%	3,210.01
11/01/2019	Serial Coupon	3.390%	3,219.08	100.000%	3,219.08
12/01/2019	Serial Coupon	3.390%	3,228.17	100.000%	3,228.17
01/01/2020	Serial Coupon	3.390%	3,237.29	100.000%	3,237.29
02/01/2020	Serial Coupon	3.390%	3,246.44	100.000%	3,246.44
03/01/2020	Serial Coupon	3.390%	3,255.61	100.000%	3,255.61
04/01/2020	Serial Coupon	3.390%	3,264.81	100.000%	3,264.81
05/01/2020	Serial Coupon	3.390%	3,274.03	100.000%	3,274.03

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## City of Charles Town, West Virginia

### Combined Waterworks & Sewerage System Refunding Revenue Bonds, Series 2018 B

FINAL: Priced by Crews & Associates on 12.18.18.- Delivery on 12.27.18

( BAM/Non-Rated - Bank Qualified )

## Form 8038 Refunded Bonds

Part 2 of 4

Date	Type of Bond	Coupon	FV Principal	Price	Issue Price
06/01/2020	Serial Coupon	3.390%	3,283.28	100.000%	3,283.28
07/01/2020	Serial Coupon	3.390%	3,292.55	100.000%	3,292.55
08/01/2020	Serial Coupon	3.390%	3,301.86	100.000%	3,301.86
09/01/2020	Serial Coupon	3.390%	3,311.18	100.000%	3,311.18
10/01/2020	Serial Coupon	3.390%	3,320.54	100.000%	3,320.54
11/01/2020	Serial Coupon	3.390%	3,329.92	100.000%	3,329.92
12/01/2020	Serial Coupon	3.390%	3,339.33	100.000%	3,339.33
01/01/2021	Serial Coupon	3.390%	3,348.76	100.000%	3,348.76
02/01/2021	Serial Coupon	3.390%	3,358.22	100.000%	3,358.22
03/01/2021	Serial Coupon	3.390%	3,367.71	100.000%	3,367.71
04/01/2021	Serial Coupon	3.390%	3,377.22	100.000%	3,377.22
05/01/2021	Serial Coupon	3.390%	3,386.76	100.000%	3,386.76
06/01/2021	Serial Coupon	3.390%	3,396.33	100.000%	3,396.33
07/01/2021	Serial Coupon	3.390%	3,405.92	100.000%	3,405.92
08/01/2021	Serial Coupon	3.390%	3,415.54	100.000%	3,415.54
09/01/2021	Serial Coupon	3.390%	3,425.19	100.000%	3,425.19
10/01/2021	Serial Coupon	3.390%	3,434.87	100.000%	3,434.87
11/01/2021	Serial Coupon	3.390%	3,444.57	100.000%	3,444.57
12/01/2021	Serial Coupon	3.390%	3,454.30	100.000%	3,454.30
01/01/2022	Serial Coupon	3.390%	3,464.06	100.000%	3,464.06
02/01/2022	Serial Coupon	3.390%	3,473.85	100.000%	3,473.85
03/01/2022	Serial Coupon	3.390%	3,483.66	100.000%	3,483.66
04/01/2022	Serial Coupon	3.390%	3,493.50	100.000%	3,493.50
05/01/2022	Serial Coupon	3.390%	3,503.37	100.000%	3,503.37
06/01/2022	Serial Coupon	3.390%	3,513.27	100.000%	3,513.27
07/01/2022	Serial Coupon	3.390%	3,523.19	100.000%	3,523.19
08/01/2022	Serial Coupon	3.390%	3,533.15	100.000%	3,533.15
09/01/2022	Serial Coupon	3.390%	3,543.13	100.000%	3,543.13
10/01/2022	Serial Coupon	3.390%	3,553.14	100.000%	3,553.14
11/01/2022	Serial Coupon	3.390%	3,563.18	100.000%	3,563.18
12/01/2022	Serial Coupon	3.390%	3,573.24	100.000%	3,573.24
01/01/2023	Serial Coupon	3.390%	3,583.34	100.000%	3,583.34
02/01/2023	Serial Coupon	3.390%	3,593.46	100.000%	3,593.46
03/01/2023	Serial Coupon	3.390%	3,603.61	100.000%	3,603.61
04/01/2023	Serial Coupon	3.390%	3,613.79	100.000%	3,613.79
05/01/2023	Serial Coupon	3.390%	3,624.00	100.000%	3,624.00
06/01/2023	Serial Coupon	3.390%	3,634.24	100.000%	3,634.24
07/01/2023	Serial Coupon	3.390%	3,644.50	100.000%	3,644.50
08/01/2023	Serial Coupon	3.390%	3,654.80	100.000%	3,654.80
09/01/2023	Serial Coupon	3.390%	3,665.12	100.000%	3,665.12
10/01/2023	Serial Coupon	3.390%	3,675.48	100.000%	3,675.48
11/01/2023	Serial Coupon	3.390%	3,685.86	100.000%	3,685.86
12/01/2023	Serial Coupon	3.390%	3,696.27	100.000%	3,696.27
01/01/2024	Serial Coupon	3.390%	3,706.72	100.000%	3,706.72

## City of Charles Town, West Virginia

### Combined Waterworks & Sewerage System Refunding Revenue Bonds, Series 2018 B

FINAL: Priced by Crews & Associates on 12.18.18.- Delivery on 12.27.18

( BAM/Non-Rated - Bank Qualified )

## Form 8038 Refunded Bonds

Part 3 of 4

Date	Type of Bond	Coupon	FV Principal	Price	Issue Price
02/01/2024	Serial Coupon	3.390%	3,717.19	100.000%	3,717.19
03/01/2024	Serial Coupon	3.390%	3,727.69	100.000%	3,727.69
04/01/2024	Serial Coupon	3.390%	3,738.22	100.000%	3,738.22
05/01/2024	Serial Coupon	3.390%	3,748.78	100.000%	3,748.78
06/01/2024	Serial Coupon	3.390%	3,759.37	100.000%	3,759.37
07/01/2024	Serial Coupon	3.390%	3,769.99	100.000%	3,769.99
08/01/2024	Serial Coupon	3.390%	3,780.64	100.000%	3,780.64
09/01/2024	Serial Coupon	3.390%	3,791.32	100.000%	3,791.32
10/01/2024	Serial Coupon	3.390%	3,802.03	100.000%	3,802.03
11/01/2024	Serial Coupon	3.390%	3,812.77	100.000%	3,812.77
12/01/2024	Serial Coupon	3.390%	3,823.54	100.000%	3,823.54
01/01/2025	Serial Coupon	3.390%	3,834.35	100.000%	3,834.35
02/01/2025	Serial Coupon	3.390%	3,845.18	100.000%	3,845.18
03/01/2025	Serial Coupon	3.390%	3,856.04	100.000%	3,856.04
04/01/2025	Serial Coupon	3.390%	3,866.93	100.000%	3,866.93
05/01/2025	Serial Coupon	3.390%	3,877.86	100.000%	3,877.86
06/01/2025	Serial Coupon	3.390%	3,888.81	100.000%	3,888.81
07/01/2025	Serial Coupon	3.390%	3,899.80	100.000%	3,899.80
08/01/2025	Serial Coupon	3.390%	3,910.82	100.000%	3,910.82
09/01/2025	Serial Coupon	3.390%	3,921.86	100.000%	3,921.86
10/01/2025	Serial Coupon	3.390%	3,932.94	100.000%	3,932.94
11/01/2025	Serial Coupon	3.390%	3,944.05	100.000%	3,944.05
12/01/2025	Serial Coupon	3.390%	3,955.19	100.000%	3,955.19
01/01/2026	Serial Coupon	3.390%	3,966.37	100.000%	3,966.37
02/01/2026	Serial Coupon	3.390%	3,977.57	100.000%	3,977.57
03/01/2026	Serial Coupon	3.390%	3,988.81	100.000%	3,988.81
04/01/2026	Serial Coupon	3.390%	4,000.08	100.000%	4,000.08
05/01/2026	Serial Coupon	3.390%	4,011.38	100.000%	4,011.38
06/01/2026	Serial Coupon	3.390%	4,022.71	100.000%	4,022.71
07/01/2026	Serial Coupon	3.390%	4,034.07	100.000%	4,034.07
08/01/2026	Serial Coupon	3.390%	4,045.47	100.000%	4,045.47
09/01/2026	Serial Coupon	3.390%	4,056.90	100.000%	4,056.90
10/01/2026	Serial Coupon	3.390%	4,068.36	100.000%	4,068.36
11/01/2026	Serial Coupon	3.390%	4,079.85	100.000%	4,079.85
12/01/2026	Serial Coupon	3.390%	4,091.38	100.000%	4,091.38
01/01/2027	Serial Coupon	3.390%	4,102.94	100.000%	4,102.94
02/01/2027	Serial Coupon	3.390%	4,114.53	100.000%	4,114.53
03/01/2027	Serial Coupon	3.390%	4,126.15	100.000%	4,126.15
04/01/2027	Serial Coupon	3.390%	4,137.81	100.000%	4,137.81
05/01/2027	Serial Coupon	3.390%	4,149.50	100.000%	4,149.50
06/01/2027	Serial Coupon	3.390%	4,161.22	100.000%	4,161.22
07/01/2027	Serial Coupon	3.390%	4,172.98	100.000%	4,172.98
08/01/2027	Serial Coupon	3.390%	4,184.76	100.000%	4,184.76
09/01/2027	Serial Coupon	3.390%	4,196.59	100.000%	4,196.59

2018B | SINGLE PURPOSE | 12/18/2018 | 12:14 PM

## City of Charles Town, West Virginia

### Combined Waterworks & Sewerage System Refunding Revenue Bonds, Series 2018 B

FINAL: Priced by Crews & Associates on 12.18.18.- Delivery on 12.27.18

( BAM/Non-Rated - Bank Qualified )

## Form 8038 Refunded Bonds

Part 4 of 4

Date	Type of Bond	Coupon	FV Principal	Price	Issue Price
10/01/2027	Serial Coupon	3.390%	4,208.44	100.000%	4,208.44
11/01/2027	Serial Coupon	3.390%	4,220.33	100.000%	4,220.33
12/01/2027	Serial Coupon	3.390%	4,232.25	100.000%	4,232.25
01/01/2028	Serial Coupon	3.390%	4,244.21	100.000%	4,244.21
02/01/2028	Serial Coupon	3.390%	4,256.20	100.000%	4,256.20
03/01/2028	Serial Coupon	3.390%	4,268.22	100.000%	4,268.22
04/01/2028	Serial Coupon	3.390%	4,280.28	100.000%	4,280.28
05/01/2028	Serial Coupon	3.390%	4,292.37	100.000%	4,292.37
06/01/2028	Serial Coupon	3.390%	4,304.50	100.000%	4,304.50
07/01/2028	Serial Coupon	3.390%	4,316.66	100.000%	4,316.66
08/01/2028	Serial Coupon	3.390%	4,328.85	100.000%	4,328.85
09/01/2028	Serial Coupon	3.390%	4,341.08	100.000%	4,341.08
10/01/2028	Serial Coupon	3.390%	4,353.35	100.000%	4,353.35
11/01/2028	Serial Coupon	3.390%	4,365.64	100.000%	4,365.64
12/01/2028	Serial Coupon	3.390%	4,377.98	100.000%	4,377.98
01/01/2029	Serial Coupon	3.390%	4,390.34	100.000%	4,390.34
02/01/2029	Serial Coupon	3.390%	4,402.75	100.000%	4,402.75
03/01/2029	Serial Coupon	3.390%	4,415.18	100.000%	4,415.18
04/01/2029	Serial Coupon	3.390%	4,427.66	100.000%	4,427.66
05/01/2029	Serial Coupon	3.390%	4,440.17	100.000%	4,440.17
06/01/2029	Serial Coupon	3.390%	4,452.71	100.000%	4,452.71
07/01/2029	Serial Coupon	3.390%	4,465.29	100.000%	4,465.29
08/01/2029	Serial Coupon	3.390%	4,477.90	100.000%	4,477.90
09/01/2029	Serial Coupon	3.390%	4,490.55	100.000%	4,490.55
10/01/2029	Serial Coupon	3.390%	4,503.24	100.000%	4,503.24
11/01/2029	Serial Coupon	3.390%	4,515.96	100.000%	4,515.96
12/01/2029	Serial Coupon	3.390%	4,528.72	100.000%	4,528.72
01/01/2030	Serial Coupon	3.390%	4,541.51	100.000%	4,541.51
02/01/2030	Serial Coupon	3.390%	4,554.34	99.999%	4,554.29
03/01/2030	Serial Coupon	3.390%	4,567.21	99.999%	4,567.16
04/01/2030	Serial Coupon	3.390%	4,580.11	99.999%	4,580.06
05/01/2030	Serial Coupon	3.390%	4,593.05	99.999%	4,593.00
06/01/2030	Serial Coupon	3.390%	4,606.02	99.999%	4,605.97
07/01/2030	Serial Coupon	3.390%	4,619.04	99.999%	4,618.99
08/01/2030	Serial Coupon	3.390%	4,632.08	99.999%	4,632.03
09/01/2030	Serial Coupon	3.390%	4,645.17	99.999%	4,645.12
10/01/2030	Serial Coupon	3.390%	4,658.29	99.999%	4,658.24
11/01/2030	Serial Coupon	3.390%	4,671.45	99.999%	4,671.40
<b>Subtotal</b>		-	<b>\$550,429.85</b>	-	<b>\$550,429.39</b>
<b>Total</b>		-	<b>\$2,945,429.85</b>	-	<b>\$2,945,429.39</b>

## Jefferson County Public Service District, West Virginia

Sewer Refunding Revenue Bonds, Series 2010A

( Sewer System Debt )

### Total Refunded Debt Service

Date	Principal	Coupon	Interest	Total P+I
04/01/2019	-	-	25,334.38	25,334.38
10/01/2019	100,000.00	3.750%	25,334.38	125,334.38
04/01/2020	-	-	23,459.38	23,459.38
10/01/2020	105,000.00	4.000%	23,459.38	128,459.38
04/01/2021	-	-	21,359.38	21,359.38
10/01/2021	110,000.00	4.000%	21,359.38	131,359.38
04/01/2022	-	-	19,159.38	19,159.38
10/01/2022	110,000.00	4.100%	19,159.38	129,159.38
04/01/2023	-	-	16,904.38	16,904.38
10/01/2023	115,000.00	4.100%	16,904.38	131,904.38
04/01/2024	-	-	14,546.88	14,546.88
10/01/2024	120,000.00	4.375%	14,546.88	134,546.88
04/01/2025	-	-	11,921.88	11,921.88
10/01/2025	125,000.00	4.375%	11,921.88	136,921.88
04/01/2026	-	-	9,187.50	9,187.50
10/01/2026	135,000.00	4.375%	9,187.50	144,187.50
04/01/2027	-	-	6,234.38	6,234.38
10/01/2027	140,000.00	4.375%	6,234.38	146,234.38
04/01/2028	-	-	3,171.88	3,171.88
10/01/2028	145,000.00	4.375%	3,171.88	148,171.88
<b>Total</b>	<b>\$1,205,000.00</b>	<b>-</b>	<b>\$302,558.84</b>	<b>\$1,507,558.84</b>

#### Yield Statistics

Base date for Avg. Life & Avg. Coupon Calculation	12/27/2018
Average Life	5.603 Years
Average Coupon	4.3016685%
Weighted Average Maturity (Par Basis)	5.603 Years
Weighted Average Maturity (Original Price Basis)	5.603 Years

#### Refunding Bond Information

Refunding Dated Date	12/27/2018
Refunding Delivery Date	12/27/2018

## Jefferson County Public Service District, West Virginia

Sewer Revenue Bonds, Series 2013A

( Sewer System Debt )

### Total Refunded Debt Service

Date	Principal	Coupon	Interest	Total P+I
06/01/2019	100,000.00	3.000%	21,050.00	121,050.00
12/01/2019	-	-	19,550.00	19,550.00
06/01/2020	105,000.00	3.000%	19,550.00	124,550.00
12/01/2020	-	-	17,975.00	17,975.00
06/01/2021	110,000.00	3.250%	17,975.00	127,975.00
12/01/2021	-	-	16,187.50	16,187.50
06/01/2022	110,000.00	3.250%	16,187.50	126,187.50
12/01/2022	-	-	14,400.00	14,400.00
06/01/2023	115,000.00	3.250%	14,400.00	129,400.00
12/01/2023	-	-	12,531.25	12,531.25
06/01/2024	120,000.00	3.750%	12,531.25	132,531.25
12/01/2024	-	-	10,281.25	10,281.25
06/01/2025	125,000.00	3.750%	10,281.25	135,281.25
12/01/2025	-	-	7,937.50	7,937.50
06/01/2026	130,000.00	3.750%	7,937.50	137,937.50
12/01/2026	-	-	5,500.00	5,500.00
06/01/2027	135,000.00	4.000%	5,500.00	140,500.00
12/01/2027	-	-	2,800.00	2,800.00
06/01/2028	140,000.00	4.000%	2,800.00	142,800.00
<b>Total</b>	<b>\$1,190,000.00</b>	<b>-</b>	<b>\$235,375.00</b>	<b>\$1,425,375.00</b>

#### Yield Statistics

Base date for Avg. Life & Avg. Coupon Calculation	12/27/2018
Average Life	5.230 Years
Average Coupon	3.7328465%
Weighted Average Maturity (Par Basis)	5.230 Years
Weighted Average Maturity (Original Price Basis)	5.230 Years

#### Refunding Bond Information

Refunding Dated Date	12/27/2018
Refunding Delivery Date	12/27/2018

## Jefferson County Public Service District, West Virginia

Sewer Revenue Bond, Series 2015A ( Junior Lien )

( Bank of Charles Town Loan )

### Total Refunded Debt Service

Part 1 of 4

Date	Principal	Coupon	Interest	Total P+I
01/01/2019	3,077.85	3.390%	1,606.80	4,684.65
02/01/2019	3,138.38	3.390%	1,546.27	4,684.65
03/01/2019	3,147.24	3.390%	1,537.40	4,684.64
04/01/2019	3,156.14	3.390%	1,528.51	4,684.65
05/01/2019	3,165.05	3.390%	1,519.60	4,684.65
06/01/2019	3,173.99	3.390%	1,510.66	4,684.65
07/01/2019	3,182.96	3.390%	1,501.69	4,684.65
08/01/2019	3,191.95	3.390%	1,492.70	4,684.65
09/01/2019	3,200.97	3.390%	1,483.68	4,684.65
10/01/2019	3,210.01	3.390%	1,474.64	4,684.65
11/01/2019	3,219.08	3.390%	1,465.57	4,684.65
12/01/2019	3,228.17	3.390%	1,456.47	4,684.64
01/01/2020	3,237.29	3.390%	1,447.36	4,684.65
02/01/2020	3,246.44	3.390%	1,438.21	4,684.65
03/01/2020	3,255.61	3.390%	1,429.04	4,684.65
04/01/2020	3,264.81	3.390%	1,419.84	4,684.65
05/01/2020	3,274.03	3.390%	1,410.62	4,684.65
06/01/2020	3,283.28	3.390%	1,401.37	4,684.65
07/01/2020	3,292.55	3.390%	1,392.09	4,684.64
08/01/2020	3,301.86	3.390%	1,382.79	4,684.65
09/01/2020	3,311.18	3.390%	1,373.46	4,684.64
10/01/2020	3,320.54	3.390%	1,364.11	4,684.65
11/01/2020	3,329.92	3.390%	1,354.73	4,684.65
12/01/2020	3,339.33	3.390%	1,345.32	4,684.65
01/01/2021	3,348.76	3.390%	1,335.89	4,684.65
02/01/2021	3,358.22	3.390%	1,326.43	4,684.65
03/01/2021	3,367.71	3.390%	1,316.94	4,684.65
04/01/2021	3,377.22	3.390%	1,307.43	4,684.65
05/01/2021	3,386.76	3.390%	1,297.89	4,684.65
06/01/2021	3,396.33	3.390%	1,288.32	4,684.65
07/01/2021	3,405.92	3.390%	1,278.73	4,684.65
08/01/2021	3,415.54	3.390%	1,269.10	4,684.64
09/01/2021	3,425.19	3.390%	1,259.45	4,684.64
10/01/2021	3,434.87	3.390%	1,249.78	4,684.65
11/01/2021	3,444.57	3.390%	1,240.08	4,684.65
12/01/2021	3,454.30	3.390%	1,230.34	4,684.64
01/01/2022	3,464.06	3.390%	1,220.59	4,684.65
02/01/2022	3,473.85	3.390%	1,210.80	4,684.65
03/01/2022	3,483.66	3.390%	1,200.99	4,684.65
04/01/2022	3,493.50	3.390%	1,191.15	4,684.65
05/01/2022	3,503.37	3.390%	1,181.28	4,684.65
06/01/2022	3,513.27	3.390%	1,171.38	4,684.65
07/01/2022	3,523.19	3.390%	1,161.45	4,684.64
08/01/2022	3,533.15	3.390%	1,151.50	4,684.65

## Jefferson County Public Service District, West Virginia

Sewer Revenue Bond, Series 2015A ( Junior Lien )

( Bank of Charles Town Loan )

### Total Refunded Debt Service

Part 2 of 4

Date	Principal	Coupon	Interest	Total P+I
09/01/2022	3,543.13	3.390%	1,141.52	4,684.65
10/01/2022	3,553.14	3.390%	1,131.51	4,684.65
11/01/2022	3,563.18	3.390%	1,121.47	4,684.65
12/01/2022	3,573.24	3.390%	1,111.41	4,684.65
01/01/2023	3,583.34	3.390%	1,101.31	4,684.65
02/01/2023	3,593.46	3.390%	1,091.19	4,684.65
03/01/2023	3,603.61	3.390%	1,081.04	4,684.65
04/01/2023	3,613.79	3.390%	1,070.86	4,684.65
05/01/2023	3,624.00	3.390%	1,060.65	4,684.65
06/01/2023	3,634.24	3.390%	1,050.41	4,684.65
07/01/2023	3,644.50	3.390%	1,040.14	4,684.64
08/01/2023	3,654.80	3.390%	1,029.85	4,684.65
09/01/2023	3,665.12	3.390%	1,019.52	4,684.64
10/01/2023	3,675.48	3.390%	1,009.17	4,684.65
11/01/2023	3,685.86	3.390%	998.79	4,684.65
12/01/2023	3,696.27	3.390%	988.37	4,684.64
01/01/2024	3,706.72	3.390%	977.93	4,684.65
02/01/2024	3,717.19	3.390%	967.46	4,684.65
03/01/2024	3,727.69	3.390%	956.96	4,684.65
04/01/2024	3,738.22	3.390%	946.43	4,684.65
05/01/2024	3,748.78	3.390%	935.87	4,684.65
06/01/2024	3,759.37	3.390%	925.28	4,684.65
07/01/2024	3,769.99	3.390%	914.66	4,684.65
08/01/2024	3,780.64	3.390%	904.01	4,684.65
09/01/2024	3,791.32	3.390%	893.33	4,684.65
10/01/2024	3,802.03	3.390%	882.62	4,684.65
11/01/2024	3,812.77	3.390%	871.88	4,684.65
12/01/2024	3,823.54	3.390%	861.10	4,684.64
01/01/2025	3,834.35	3.390%	850.30	4,684.65
02/01/2025	3,845.18	3.390%	839.47	4,684.65
03/01/2025	3,856.04	3.390%	828.61	4,684.65
04/01/2025	3,866.93	3.390%	817.72	4,684.65
05/01/2025	3,877.86	3.390%	806.79	4,684.65
06/01/2025	3,888.81	3.390%	795.84	4,684.65
07/01/2025	3,899.80	3.390%	784.85	4,684.65
08/01/2025	3,910.82	3.390%	773.83	4,684.65
09/01/2025	3,921.86	3.390%	762.79	4,684.65
10/01/2025	3,932.94	3.390%	751.71	4,684.65
11/01/2025	3,944.05	3.390%	740.60	4,684.65
12/01/2025	3,955.19	3.390%	729.45	4,684.64
01/01/2026	3,966.37	3.390%	718.28	4,684.65
02/01/2026	3,977.57	3.390%	707.08	4,684.65
03/01/2026	3,988.81	3.390%	695.84	4,684.65
04/01/2026	4,000.08	3.390%	684.57	4,684.65

**Jefferson County Public Service District, West Virginia**

Sewer Revenue Bond, Series 2015A ( Junior Lien )

( Bank of Charles Town Loan )

**Total Refunded Debt Service**

Part 3 of 4

<b>Date</b>	<b>Principal</b>	<b>Coupon</b>	<b>Interest</b>	<b>Total P+I</b>
05/01/2026	4,011.38	3.390%	673.27	4,684.65
06/01/2026	4,022.71	3.390%	661.94	4,684.65
07/01/2026	4,034.07	3.390%	650.57	4,684.64
08/01/2026	4,045.47	3.390%	639.18	4,684.65
09/01/2026	4,056.90	3.390%	627.75	4,684.65
10/01/2026	4,068.36	3.390%	616.29	4,684.65
11/01/2026	4,079.85	3.390%	604.80	4,684.65
12/01/2026	4,091.38	3.390%	593.27	4,684.65
01/01/2027	4,102.94	3.390%	581.71	4,684.65
02/01/2027	4,114.53	3.390%	570.12	4,684.65
03/01/2027	4,126.15	3.390%	558.50	4,684.65
04/01/2027	4,137.81	3.390%	546.84	4,684.65
05/01/2027	4,149.50	3.390%	535.15	4,684.65
06/01/2027	4,161.22	3.390%	523.43	4,684.65
07/01/2027	4,172.98	3.390%	511.67	4,684.65
08/01/2027	4,184.76	3.390%	499.89	4,684.65
09/01/2027	4,196.59	3.390%	488.06	4,684.65
10/01/2027	4,208.44	3.390%	476.21	4,684.65
11/01/2027	4,220.33	3.390%	464.32	4,684.65
12/01/2027	4,232.25	3.390%	452.40	4,684.65
01/01/2028	4,244.21	3.390%	440.44	4,684.65
02/01/2028	4,256.20	3.390%	428.45	4,684.65
03/01/2028	4,268.22	3.390%	416.43	4,684.65
04/01/2028	4,280.28	3.390%	404.37	4,684.65
05/01/2028	4,292.37	3.390%	392.28	4,684.65
06/01/2028	4,304.50	3.390%	380.15	4,684.65
07/01/2028	4,316.66	3.390%	367.99	4,684.65
08/01/2028	4,328.85	3.390%	355.80	4,684.65
09/01/2028	4,341.08	3.390%	343.57	4,684.65
10/01/2028	4,353.35	3.390%	331.30	4,684.65
11/01/2028	4,365.64	3.390%	319.01	4,684.65
12/01/2028	4,377.98	3.390%	306.67	4,684.65
01/01/2029	4,390.34	3.390%	294.30	4,684.64
02/01/2029	4,402.75	3.390%	281.90	4,684.65
03/01/2029	4,415.18	3.390%	269.46	4,684.64
04/01/2029	4,427.66	3.390%	256.99	4,684.65
05/01/2029	4,440.17	3.390%	244.48	4,684.65
06/01/2029	4,452.71	3.390%	231.94	4,684.65
07/01/2029	4,465.29	3.390%	219.36	4,684.65
08/01/2029	4,477.90	3.390%	206.75	4,684.65
09/01/2029	4,490.55	3.390%	194.10	4,684.65
10/01/2029	4,503.24	3.390%	181.41	4,684.65
11/01/2029	4,515.96	3.390%	168.69	4,684.65
12/01/2029	4,528.72	3.390%	155.93	4,684.65



**Jefferson County Public Service District, West Virginia**

Sewer Revenue Bond, Series 2015A ( Junior Lien )

( Bank of Charles Town Loan )

**Total Refunded Debt Service**

Part 4 of 4

<b>Date</b>	<b>Principal</b>	<b>Coupon</b>	<b>Interest</b>	<b>Total P+I</b>
01/01/2030	4,541.51	3.390%	143.14	4,684.65
02/01/2030	4,554.34	3.390%	130.31	4,684.65
03/01/2030	4,567.21	3.390%	117.44	4,684.65
04/01/2030	4,580.11	3.390%	104.54	4,684.65
05/01/2030	4,593.05	3.390%	91.60	4,684.65
06/01/2030	4,606.02	3.390%	78.63	4,684.65
07/01/2030	4,619.04	3.390%	65.61	4,684.65
08/01/2030	4,632.08	3.390%	52.56	4,684.64
09/01/2030	4,645.17	3.390%	39.48	4,684.65
10/01/2030	4,658.29	3.390%	26.36	4,684.65
11/01/2030	4,671.45	3.390%	13.20	4,684.65
<b>Total</b>	<b>\$550,429.85</b>	<b>-</b>	<b>\$119,474.93</b>	<b>\$669,904.78</b>

## Jefferson County Public Service District, West Virginia

Sewer Refunding Revenue Bonds, Series 2010A

( Sewer System Debt )

### Debt Service To Maturity And To Call

Date	Refunded Bonds	Refunded Interest	D/S To Call	Principal	Coupon	Interest	Refunded D/S
12/27/2018	-	-	-	-	-	-	-
01/18/2019	1,205,000.00	15,059.88	1,220,059.88	-	-	-	-
04/01/2019	-	-	-	-	-	25,334.38	25,334.38
10/01/2019	-	-	-	100,000.00	3.750%	25,334.38	125,334.38
04/01/2020	-	-	-	-	-	23,459.38	23,459.38
10/01/2020	-	-	-	105,000.00	4.000%	23,459.38	128,459.38
04/01/2021	-	-	-	-	-	21,359.38	21,359.38
10/01/2021	-	-	-	110,000.00	4.000%	21,359.38	131,359.38
04/01/2022	-	-	-	-	-	19,159.38	19,159.38
10/01/2022	-	-	-	110,000.00	4.100%	19,159.38	129,159.38
04/01/2023	-	-	-	-	-	16,904.38	16,904.38
10/01/2023	-	-	-	115,000.00	4.100%	16,904.38	131,904.38
04/01/2024	-	-	-	-	-	14,546.88	14,546.88
10/01/2024	-	-	-	120,000.00	4.375%	14,546.88	134,546.88
04/01/2025	-	-	-	-	-	11,921.88	11,921.88
10/01/2025	-	-	-	125,000.00	4.375%	11,921.88	136,921.88
04/01/2026	-	-	-	-	-	9,187.50	9,187.50
10/01/2026	-	-	-	135,000.00	4.375%	9,187.50	144,187.50
04/01/2027	-	-	-	-	-	6,234.38	6,234.38
10/01/2027	-	-	-	140,000.00	4.375%	6,234.38	146,234.38
04/01/2028	-	-	-	-	-	3,171.88	3,171.88
10/01/2028	-	-	-	145,000.00	4.375%	3,171.88	148,171.88
<b>Total</b>	<b>\$1,205,000.00</b>	<b>\$15,059.88</b>	<b>\$1,220,059.88</b>	<b>\$1,205,000.00</b>	<b>-</b>	<b>\$302,558.84</b>	<b>\$1,507,558.84</b>

#### Yield Statistics

Base date for Avg. Life & Avg. Coupon Calculation	12/27/2018
Average Life	5.603 Years
Average Coupon	4.3016685%
Weighted Average Maturity (Par Basis)	5.603 Years
Weighted Average Maturity (Original Price Basis)	5.603 Years

#### Refunding Bond Information

Refunding Dated Date	12/27/2018
Refunding Delivery Date	12/27/2018

## Jefferson County Public Service District, West Virginia

Sewer Revenue Bonds, Series 2013A

( Sewer System Debt )

### Debt Service To Maturity And To Call

Date	Refunded Bonds	Refunded Interest	D/S To Call	Principal	Coupon	Interest	Refunded D/S
12/27/2018	-	-	-	-	-	-	-
01/18/2019	1,190,000.00	5,496.39	1,195,496.39	-	-	-	-
06/01/2019	-	-	-	100,000.00	3.000%	21,050.00	121,050.00
12/01/2019	-	-	-	-	-	19,550.00	19,550.00
06/01/2020	-	-	-	105,000.00	3.000%	19,550.00	124,550.00
12/01/2020	-	-	-	-	-	17,975.00	17,975.00
06/01/2021	-	-	-	110,000.00	3.250%	17,975.00	127,975.00
12/01/2021	-	-	-	-	-	16,187.50	16,187.50
06/01/2022	-	-	-	110,000.00	3.250%	16,187.50	126,187.50
12/01/2022	-	-	-	-	-	14,400.00	14,400.00
06/01/2023	-	-	-	115,000.00	3.250%	14,400.00	129,400.00
12/01/2023	-	-	-	-	-	12,531.25	12,531.25
06/01/2024	-	-	-	120,000.00	3.750%	12,531.25	132,531.25
12/01/2024	-	-	-	-	-	10,281.25	10,281.25
06/01/2025	-	-	-	125,000.00	3.750%	10,281.25	135,281.25
12/01/2025	-	-	-	-	-	7,937.50	7,937.50
06/01/2026	-	-	-	130,000.00	3.750%	7,937.50	137,937.50
12/01/2026	-	-	-	-	-	5,500.00	5,500.00
06/01/2027	-	-	-	135,000.00	4.000%	5,500.00	140,500.00
12/01/2027	-	-	-	-	-	2,800.00	2,800.00
06/01/2028	-	-	-	140,000.00	4.000%	2,800.00	142,800.00
<b>Total</b>	<b>\$1,190,000.00</b>	<b>\$5,496.39</b>	<b>\$1,195,496.39</b>	<b>\$1,190,000.00</b>	<b>-</b>	<b>\$235,375.00</b>	<b>\$1,425,375.00</b>

#### Yield Statistics

Base date for Avg. Life & Avg. Coupon Calculation	12/27/2018
Average Life	5.230 Years
Average Coupon	3.7328465%
Weighted Average Maturity (Par Basis)	5.230 Years
Weighted Average Maturity (Original Price Basis)	5.230 Years

#### Refunding Bond Information

Refunding Dated Date	12/27/2018
Refunding Delivery Date	12/27/2018

## Jefferson County Public Service District, West Virginia

Sewer Revenue Bond, Series 2015A ( Junior Lien )

( Bank of Charles Town Loan )

### Debt Service To Maturity And To Call

Part 1 of 4

Date	Refunded Bonds	Refunded Interest	D/S To Call	Principal	Coupon	Interest	Refunded D/S
12/27/2018	550,429.85	1,399.47	551,829.32	-	-	-	-
01/01/2019	-	-	-	3,077.85	3.390%	1,606.80	4,684.65
02/01/2019	-	-	-	3,138.38	3.390%	1,546.27	4,684.65
03/01/2019	-	-	-	3,147.24	3.390%	1,537.40	4,684.64
04/01/2019	-	-	-	3,156.14	3.390%	1,528.51	4,684.65
05/01/2019	-	-	-	3,165.05	3.390%	1,519.60	4,684.65
06/01/2019	-	-	-	3,173.99	3.390%	1,510.66	4,684.65
07/01/2019	-	-	-	3,182.96	3.390%	1,501.69	4,684.65
08/01/2019	-	-	-	3,191.95	3.390%	1,492.70	4,684.65
09/01/2019	-	-	-	3,200.97	3.390%	1,483.68	4,684.65
10/01/2019	-	-	-	3,210.01	3.390%	1,474.64	4,684.65
11/01/2019	-	-	-	3,219.08	3.390%	1,465.57	4,684.65
12/01/2019	-	-	-	3,228.17	3.390%	1,456.47	4,684.64
01/01/2020	-	-	-	3,237.29	3.390%	1,447.36	4,684.65
02/01/2020	-	-	-	3,246.44	3.390%	1,438.21	4,684.65
03/01/2020	-	-	-	3,255.61	3.390%	1,429.04	4,684.65
04/01/2020	-	-	-	3,264.81	3.390%	1,419.84	4,684.65
05/01/2020	-	-	-	3,274.03	3.390%	1,410.62	4,684.65
06/01/2020	-	-	-	3,283.28	3.390%	1,401.37	4,684.65
07/01/2020	-	-	-	3,292.55	3.390%	1,392.09	4,684.64
08/01/2020	-	-	-	3,301.86	3.390%	1,382.79	4,684.65
09/01/2020	-	-	-	3,311.18	3.390%	1,373.46	4,684.64
10/01/2020	-	-	-	3,320.54	3.390%	1,364.11	4,684.65
11/01/2020	-	-	-	3,329.92	3.390%	1,354.73	4,684.65
12/01/2020	-	-	-	3,339.33	3.390%	1,345.32	4,684.65
01/01/2021	-	-	-	3,348.76	3.390%	1,335.89	4,684.65
02/01/2021	-	-	-	3,358.22	3.390%	1,326.43	4,684.65
03/01/2021	-	-	-	3,367.71	3.390%	1,316.94	4,684.65
04/01/2021	-	-	-	3,377.22	3.390%	1,307.43	4,684.65
05/01/2021	-	-	-	3,386.76	3.390%	1,297.89	4,684.65
06/01/2021	-	-	-	3,396.33	3.390%	1,288.32	4,684.65
07/01/2021	-	-	-	3,405.92	3.390%	1,278.73	4,684.65
08/01/2021	-	-	-	3,415.54	3.390%	1,269.10	4,684.64
09/01/2021	-	-	-	3,425.19	3.390%	1,259.45	4,684.64
10/01/2021	-	-	-	3,434.87	3.390%	1,249.78	4,684.65
11/01/2021	-	-	-	3,444.57	3.390%	1,240.08	4,684.65
12/01/2021	-	-	-	3,454.30	3.390%	1,230.34	4,684.64
01/01/2022	-	-	-	3,464.06	3.390%	1,220.59	4,684.65
02/01/2022	-	-	-	3,473.85	3.390%	1,210.80	4,684.65
03/01/2022	-	-	-	3,483.66	3.390%	1,200.99	4,684.65
04/01/2022	-	-	-	3,493.50	3.390%	1,191.15	4,684.65
05/01/2022	-	-	-	3,503.37	3.390%	1,181.28	4,684.65
06/01/2022	-	-	-	3,513.27	3.390%	1,171.38	4,684.65

**Jefferson County Public Service District, West Virginia**

Sewer Revenue Bond, Series 2015A ( Junior Lien )

( Bank of Charles Town Loan )

**Debt Service To Maturity And To Call**

Part 2 of 4

Date	Refunded Bonds	Refunded Interest	D/S To Call	Principal	Coupon	Interest	Refunded D/S
07/01/2022	-	-	-	3,523.19	3.390%	1,161.45	4,684.64
08/01/2022	-	-	-	3,533.15	3.390%	1,151.50	4,684.65
09/01/2022	-	-	-	3,543.13	3.390%	1,141.52	4,684.65
10/01/2022	-	-	-	3,553.14	3.390%	1,131.51	4,684.65
11/01/2022	-	-	-	3,563.18	3.390%	1,121.47	4,684.65
12/01/2022	-	-	-	3,573.24	3.390%	1,111.41	4,684.65
01/01/2023	-	-	-	3,583.34	3.390%	1,101.31	4,684.65
02/01/2023	-	-	-	3,593.46	3.390%	1,091.19	4,684.65
03/01/2023	-	-	-	3,603.61	3.390%	1,081.04	4,684.65
04/01/2023	-	-	-	3,613.79	3.390%	1,070.86	4,684.65
05/01/2023	-	-	-	3,624.00	3.390%	1,060.65	4,684.65
06/01/2023	-	-	-	3,634.24	3.390%	1,050.41	4,684.65
07/01/2023	-	-	-	3,644.50	3.390%	1,040.14	4,684.64
08/01/2023	-	-	-	3,654.80	3.390%	1,029.85	4,684.65
09/01/2023	-	-	-	3,665.12	3.390%	1,019.52	4,684.64
10/01/2023	-	-	-	3,675.48	3.390%	1,009.17	4,684.65
11/01/2023	-	-	-	3,685.86	3.390%	998.79	4,684.65
12/01/2023	-	-	-	3,696.27	3.390%	988.37	4,684.64
01/01/2024	-	-	-	3,706.72	3.390%	977.93	4,684.65
02/01/2024	-	-	-	3,717.19	3.390%	967.46	4,684.65
03/01/2024	-	-	-	3,727.69	3.390%	956.96	4,684.65
04/01/2024	-	-	-	3,738.22	3.390%	946.43	4,684.65
05/01/2024	-	-	-	3,748.78	3.390%	935.87	4,684.65
06/01/2024	-	-	-	3,759.37	3.390%	925.28	4,684.65
07/01/2024	-	-	-	3,769.99	3.390%	914.66	4,684.65
08/01/2024	-	-	-	3,780.64	3.390%	904.01	4,684.65
09/01/2024	-	-	-	3,791.32	3.390%	893.33	4,684.65
10/01/2024	-	-	-	3,802.03	3.390%	882.62	4,684.65
11/01/2024	-	-	-	3,812.77	3.390%	871.88	4,684.65
12/01/2024	-	-	-	3,823.54	3.390%	861.10	4,684.64
01/01/2025	-	-	-	3,834.35	3.390%	850.30	4,684.65
02/01/2025	-	-	-	3,845.18	3.390%	839.47	4,684.65
03/01/2025	-	-	-	3,856.04	3.390%	828.61	4,684.65
04/01/2025	-	-	-	3,866.93	3.390%	817.72	4,684.65
05/01/2025	-	-	-	3,877.86	3.390%	806.79	4,684.65
06/01/2025	-	-	-	3,888.81	3.390%	795.84	4,684.65
07/01/2025	-	-	-	3,899.80	3.390%	784.85	4,684.65
08/01/2025	-	-	-	3,910.82	3.390%	773.83	4,684.65
09/01/2025	-	-	-	3,921.86	3.390%	762.79	4,684.65
10/01/2025	-	-	-	3,932.94	3.390%	751.71	4,684.65
11/01/2025	-	-	-	3,944.05	3.390%	740.60	4,684.65
12/01/2025	-	-	-	3,955.19	3.390%	729.45	4,684.64
01/01/2026	-	-	-	3,966.37	3.390%	718.28	4,684.65

**Jefferson County Public Service District, West Virginia**

Sewer Revenue Bond, Series 2015A ( Junior Lien )

( Bank of Charles Town Loan )

**Debt Service To Maturity And To Call**

Part 3 of 4

Date	Refunded Bonds	Refunded Interest	D/S To Call	Principal	Coupon	Interest	Refunded D/S
02/01/2026	-	-	-	3,977.57	3.390%	707.08	4,684.65
03/01/2026	-	-	-	3,988.81	3.390%	695.84	4,684.65
04/01/2026	-	-	-	4,000.08	3.390%	684.57	4,684.65
05/01/2026	-	-	-	4,011.38	3.390%	673.27	4,684.65
06/01/2026	-	-	-	4,022.71	3.390%	661.94	4,684.65
07/01/2026	-	-	-	4,034.07	3.390%	650.57	4,684.64
08/01/2026	-	-	-	4,045.47	3.390%	639.18	4,684.65
09/01/2026	-	-	-	4,056.90	3.390%	627.75	4,684.65
10/01/2026	-	-	-	4,068.36	3.390%	616.29	4,684.65
11/01/2026	-	-	-	4,079.85	3.390%	604.80	4,684.65
12/01/2026	-	-	-	4,091.38	3.390%	593.27	4,684.65
01/01/2027	-	-	-	4,102.94	3.390%	581.71	4,684.65
02/01/2027	-	-	-	4,114.53	3.390%	570.12	4,684.65
03/01/2027	-	-	-	4,126.15	3.390%	558.50	4,684.65
04/01/2027	-	-	-	4,137.81	3.390%	546.84	4,684.65
05/01/2027	-	-	-	4,149.50	3.390%	535.15	4,684.65
06/01/2027	-	-	-	4,161.22	3.390%	523.43	4,684.65
07/01/2027	-	-	-	4,172.98	3.390%	511.67	4,684.65
08/01/2027	-	-	-	4,184.76	3.390%	499.89	4,684.65
09/01/2027	-	-	-	4,196.59	3.390%	488.06	4,684.65
10/01/2027	-	-	-	4,208.44	3.390%	476.21	4,684.65
11/01/2027	-	-	-	4,220.33	3.390%	464.32	4,684.65
12/01/2027	-	-	-	4,232.25	3.390%	452.40	4,684.65
01/01/2028	-	-	-	4,244.21	3.390%	440.44	4,684.65
02/01/2028	-	-	-	4,256.20	3.390%	428.45	4,684.65
03/01/2028	-	-	-	4,268.22	3.390%	416.43	4,684.65
04/01/2028	-	-	-	4,280.28	3.390%	404.37	4,684.65
05/01/2028	-	-	-	4,292.37	3.390%	392.28	4,684.65
06/01/2028	-	-	-	4,304.50	3.390%	380.15	4,684.65
07/01/2028	-	-	-	4,316.66	3.390%	367.99	4,684.65
08/01/2028	-	-	-	4,328.85	3.390%	355.80	4,684.65
09/01/2028	-	-	-	4,341.08	3.390%	343.57	4,684.65
10/01/2028	-	-	-	4,353.35	3.390%	331.30	4,684.65
11/01/2028	-	-	-	4,365.64	3.390%	319.01	4,684.65
12/01/2028	-	-	-	4,377.98	3.390%	306.67	4,684.65
01/01/2029	-	-	-	4,390.34	3.390%	294.30	4,684.64
02/01/2029	-	-	-	4,402.75	3.390%	281.90	4,684.65
03/01/2029	-	-	-	4,415.18	3.390%	269.46	4,684.64
04/01/2029	-	-	-	4,427.66	3.390%	256.99	4,684.65
05/01/2029	-	-	-	4,440.17	3.390%	244.48	4,684.65
06/01/2029	-	-	-	4,452.71	3.390%	231.94	4,684.65
07/01/2029	-	-	-	4,465.29	3.390%	219.36	4,684.65
08/01/2029	-	-	-	4,477.90	3.390%	206.75	4,684.65

**Jefferson County Public Service District, West Virginia**

Sewer Revenue Bond, Series 2015A ( Junior Lien )

( Bank of Charles Town Loan )

**Debt Service To Maturity And To Call**

Part 4 of 4

Date	Refunded Bonds	Refunded Interest	D/S To Call	Principal	Coupon	Interest	Refunded D/S
09/01/2029	-	-	-	4,490.55	3.390%	194.10	4,684.65
10/01/2029	-	-	-	4,503.24	3.390%	181.41	4,684.65
11/01/2029	-	-	-	4,515.96	3.390%	168.69	4,684.65
12/01/2029	-	-	-	4,528.72	3.390%	155.93	4,684.65
01/01/2030	-	-	-	4,541.51	3.390%	143.14	4,684.65
02/01/2030	-	-	-	4,554.34	3.390%	130.31	4,684.65
03/01/2030	-	-	-	4,567.21	3.390%	117.44	4,684.65
04/01/2030	-	-	-	4,580.11	3.390%	104.54	4,684.65
05/01/2030	-	-	-	4,593.05	3.390%	91.60	4,684.65
06/01/2030	-	-	-	4,606.02	3.390%	78.63	4,684.65
07/01/2030	-	-	-	4,619.04	3.390%	65.61	4,684.65
08/01/2030	-	-	-	4,632.08	3.390%	52.56	4,684.64
09/01/2030	-	-	-	4,645.17	3.390%	39.48	4,684.65
10/01/2030	-	-	-	4,658.29	3.390%	26.36	4,684.65
11/01/2030	-	-	-	4,671.45	3.390%	13.20	4,684.65
<b>Total</b>	<b>\$550,429.85</b>	<b>\$1,399.47</b>	<b>\$551,829.32</b>	<b>\$550,429.85</b>	<b>-</b>	<b>\$119,474.93</b>	<b>\$669,904.78</b>

**Yield Statistics**

Base date for Avg. Life & Avg. Coupon Calculation	12/27/2018
Average Life	6.328 Years
Average Coupon	3.3900015%
Weighted Average Maturity (Par Basis)	6.328 Years
Weighted Average Maturity (Original Price Basis)	6.328 Years

**Refunding Bond Information**

Refunding Dated Date	12/27/2018
Refunding Delivery Date	12/27/2018