

School Board of Broward County, Florida

Finance Committee Meeting

May 30, 2019



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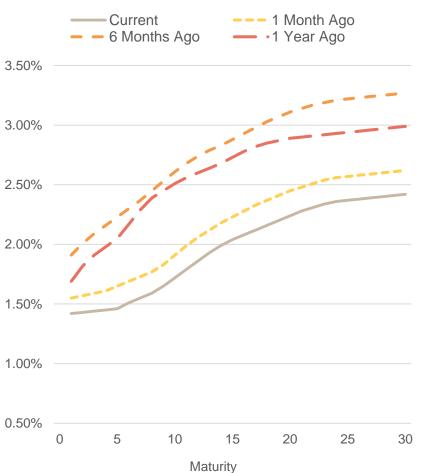


I. Market Update

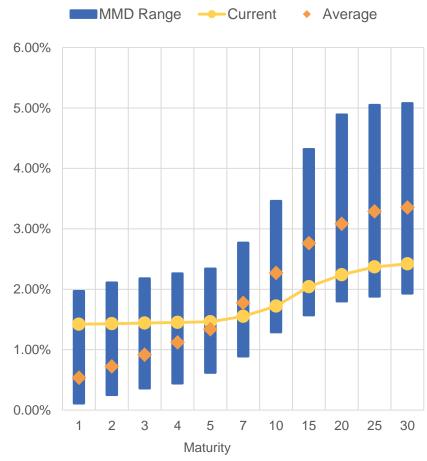


Municipal Market Interest Rates

MMA AAA G.O. Curve

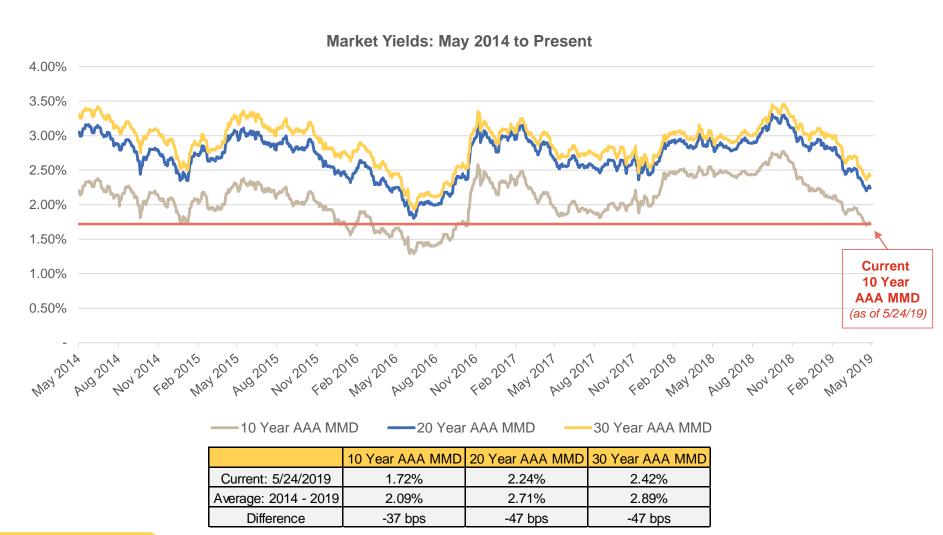


MMD Ranges Over Past 10 Years





Municipal Market Interest Rates





II. Tax Anticipation Notes



Tax Anticipation Notes

- Series 2019 Overview
 - The Finance Committee reviewed the 2019 TAN issuance at the March 15, 2019 meeting
 - Presenting again to increase the issuance size from \$125 million to **\$150 million**, representing \$25 million above what the District has typically issued for the annual TAN.
 - The District also plans to move up the issuance date to July rather than waiting until September as it has done in past years.
 - Due to interest rate environment, the District may have an opportunity to earn positive arbitrage by meeting the exceptions in the Tax Code
 - Expected Rate for 1-Year TAN: 1.60%

Current Market Yields (1 Year)*	
Florida Education Investment Trust Fund (FEIT)	2.41%
State and Local Government Series (SLGS)	2.35%
U.S. Treasury Bill	2.38%

^{*}Rates as of 5/22/2019

 Most of the District's revenues are generated from local property taxes, of which the majority are received in November and December, so the TAN is issued to ease cash flow constraints in the General Fund during the interim.



Key Dates for the Series 2019 TAN

	May						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
			1	2	3	4	
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30	31		

- 5/10 Distribute Financing Timetable and Distribution
- 5/24 Distribute First Drafts of Note Resolution, POS & NOS
- 5/29 Distribute First Draft of Cash Flows
- 5/30 Finance Committee Meeting

June						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						·

- 6/5 APG Planning Meeting
- 6/12 APG Finalize Meeting
- 6/20 Receive Rating
- 6/25 Regular School Board Meeting (RSBM) to Adopt Financing Documents
- 6/27 Publish Summary NOS in Bond Buyer; Print and Post POS

	July						
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
	1	2	3	4	5	6	
7	8	9	10	11	12	13	
14	15	16	17	18	19	20	
21	22	23	24	25	26	27	
28	29	30	31				

- 7/9 Competitive Sale
- 7/23 Pre-Closing
- 7/24 Closing Date



III. Swap Termination Analysis: Certificates of Participation, Series 2014A



Overview – Certificates of Participation, Series 2014A

Floating-to-Fixed Rate Swap

Refunded COPs: Series 2004D

Current Notational Amount: \$113,825,000

• End Date: July 1, 2029

Current MTM: (\$15,607,204.46) as of May 20, 2019

67% LIBOR School Board Citigroup Note: FRN rolls 3.85% over in January and will shift to **FRN** FRN approximately 70% LIBOR 70% LIBOR 79% of LIBOR + 43 bps + 45 bps plus a spread (U.S.Bank) (BofA) BofA/U.S. Bank (12/21/2016-01/02/2020)



Assumptions for 2014A COPs Debt Service

		Through ²	Next Roll ⁽²⁾	
		US Bank	BofA	TBD
FRN	District Pays	70% of LIBOR + 43 bps	70% of LIBOR + 45 bps	79% of LIBOR + 41 bps
ap	District Pays	3.850%	3.850%	3.850%
Swap	District Recieves	67% of LIBOR	67% of LIBOR	67% of LIBOR
Increase for LIBOR Mismatch		+ 7 bps	+ 7 bps	+ 29 bps
	Assumed Rate	4.353%	4.373%	4.552%

^{(1) 1-}Month LIBOR as of 5/20/2019 equal to 2.436%.

Certificates of Participation, Series 2014A						
Period Ending	Principal	Interest ⁽³⁾	Debt Service			
7/15/2019	-	5,035,159	5,035,159			
7/15/2020	3,925,000	5,160,094	9,085,094			
7/15/2021	10,350,000	5,078,673	15,428,673			
7/15/2022	10,775,000	4,599,903	15,374,903			
7/15/2023	11,200,000	4,102,828	15,302,828			
7/15/2024	11,675,000	3,591,544	15,266,544			
7/15/2025	12,150,000	3,041,431	15,191,431			
7/15/2026	12,600,000	2,490,241	15,090,241			
7/15/2027	13,175,000	1,907,494	15,082,494			
7/15/2028	13,700,000	1,301,575	15,001,575			
7/15/2029	14,275,000	658,823	14,933,823			
Total	113,825,000	36,967,765	150,792,765			

⁽³⁾ Interest reflective of the rate assumptions of 4.353% and 4.373% through January 2, 2020 and increasing to 4.552% thereafter, as shown in the table to the left

⁽²⁾ Pricing formula updated to reflect prevailing market conditions



Refunding Results on 2014A COPs – Level Savings

• In today's market, the District could achieve 1.153% net present value savings while terminating the 2014A swap, producing level cash flow savings of approximately \$135,000 per year on average.

Assumptions & Summary Refund	ding Results
Dated/Delivery Date	7/1/2019
First Interest Payment	1/1/2020
Final Maturity	7/1/2029
All-In TIC	4.421%
Arbitrage Yield	1.898%
NPV Savings	1,311,938
% NPV Savings of Refunded Bonds	1.153%

	Aggregate	Savings from	Aggregate
	Existing Debt	2014A	Debt Service
Year	Service	Refunding	After Refunding
2020	\$153,748,419	\$132,844	\$153,615,575
2021	154,308,226	132,673	154,175,553
2022	153,622,330	135,903	153,486,427
2023	152,793,865	132,828	152,661,037
2024	152,783,404	138,044	152,645,360
2025	152,990,810	134,431	152,856,379
2026	152,931,345	134,491	152,796,854
2027	119,320,338	137,494	119,182,845
2028	112,584,916	137,575	112,447,341
2029	98,305,368	134,073	98,171,295
2030	83,592,770	-	83,592,770
2031	67,079,592	-	67,079,592
2032	46,301,438	-	46,301,438
2033	28,890,438	-	28,890,438
2034	10,494,750	-	10,494,750
Total	\$1,639,748,007	\$1,350,356	\$1,638,397,651
			
MADS	\$154,308,226		\$154,175,553



Refunding Results on 2014A COPs – Level Aggregate Debt Service

As an alternative to level cash flow savings, the District could terminate the 2014A swap in today's market and price to
produce a smoother aggregate service structure. This would reduce maximum annual debt service to \$149.8 million
from \$154.3 million while still achieving a slightly positive net prevent value savings of 0.331%.

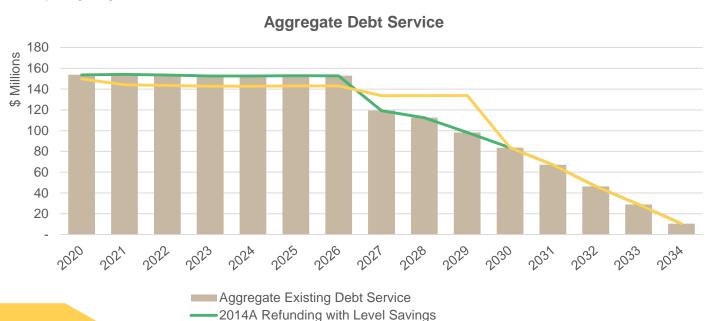
Assumptions & Summary Refund	ing Results
Dated/Delivery Date	7/1/2019
First Interest Payment	1/1/2020
Final Maturity	7/1/2029
All-In TIC	3.797%
Arbitrage Yield	2.036%
NPV Savings	376,753
% NPV Savings of Refunded Bonds	0.331%

	Aggregate	Savings from	Aggregate
	Existing Debt	2014A	Debt Service
Year	Service	Refunding	After Refunding
2020	\$153,748,419	\$3,875,094	\$149,873,325
2021	154,308,226	10,218,673	144,089,553
2022	153,622,330	10,164,903	143,457,427
2023	152,793,865	10,092,828	142,701,037
2024	152,783,404	10,056,544	142,726,860
2025	152,990,810	9,981,431	143,009,379
2026	152,931,345	9,880,241	143,051,104
2027	119,320,338	(14,272,506)	133,592,845
2028	112,584,916	(21,086,175)	133,671,091
2029	98,305,368	(35,434,677)	133,740,045
2030	83,592,770	-	83,592,770
2031	67,079,592	-	67,079,592
2032	46,301,438	-	46,301,438
2033	28,890,438	-	28,890,438
2034	10,494,750	-	10,494,750
Total	\$1,639,748,007	(\$6,523,644)	\$1,646,271,651
MADS	\$154,308,226		\$149,873,325



Comparison of 2014A Refunding Structures

- Level Savings
 - NPV Savings: \$1,311,938 or 1.153%
 - Estimated Annual Cash Flow Savings: \$135,036
 - MADS: \$154,175,553
- Aggregate Level Debt Service
 - NPV Savings: \$376,753 or 0.331%
 - MADS: \$149,873,325



2014A Refunding with Aggregate Level Debt Service

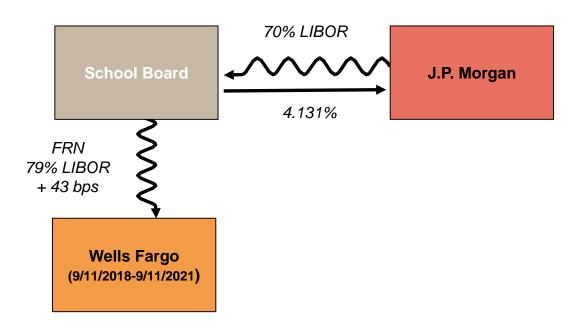


IV. Swap Termination Analysis: Certificates of Participation, Series 2015C



Overview – Certificates of Participation, Series 2015C

- Floating-to-Fixed Rate Swap
 - Refunded: Series 2006B COPs
 - Current Notational Amount: \$65,000,000
 - End Date: June 30, 2031
 - Current MTM: (\$16,689,514.40) as of May 20, 2019





Assumptions for 2015C COPs Debt Service

[Through 9/11/2021 ⁽¹⁾	Next Roll ⁽²⁾
		Wells Fargo	TBD
FRN	District Pays	79% of LIBOR + 43 bps	79% of LIBOR + 43 bps
Swap	District Pays	4.131%	4.131%
Sw	District Recieves	70% of LIBOR	70% of LIBOR
Increase for LIBOR Mismatch		+ 22 bps	+ 22 bps
Assumed Rate		4.780%	4.780%

^{(1) 1-}Month LIBOR as of 5/20/2019 equal to 2.436%.

Certificates of Participation, Series 2015C							
Period Ending	Principal	Interest ⁽³⁾	Debt Service				
7/15/2019	-	3,150,153	3,150,153				
7/15/2020	-	3,158,783	3,158,783				
7/15/2021	-	3,150,153	3,150,153				
7/15/2022	-	3,150,153	3,150,153				
7/15/2023	-	3,150,153	3,150,153				
7/15/2024	-	3,158,783	3,158,783				
7/15/2025	-	3,150,153	3,150,153				
7/15/2026	-	3,150,153	3,150,153				
7/15/2027	-	3,150,153	3,150,153				
7/15/2028	7,225,000	3,158,783	10,383,783				
7/15/2029	18,425,000	2,800,001	21,225,001				
7/15/2030	19,250,000	1,907,054	21,157,054				
7/15/2031	20,100,000	974,124	21,074,124				
Total	65,000,000	37,208,599	102,208,599				
•							

⁽³⁾ Interest reflective of the rate assumption of 4.780% as shown in the table to the left

⁽²⁾ Assumes same pricing formula for next roll.



Refunding Results on 2015C COPs – Level Savings

• If refunding the 2015C COPs and terminating the swap in today's market, the District would realize a net present value dissavings of 2.856% or approximately \$1.85 million.

Assumptions & Summary Refund	ding Results
Dated/Delivery Date	7/1/2019
First Interest Payment	1/1/2020
Call Date	7/1/2029
Final Maturity	7/1/2031
All-In TIC	5.162%
Arbitrage Yield	2.211%
NPV Savings	(1,856,394)
% NPV Savings of Refunded Bonds	(2.856%)

	Aggregate	Savings from	Aggregate
	Existing Debt	2015C	Debt Service
Year	Service	Refunding	After Refunding
2020	\$153,748,419	(\$190,967)	\$153,939,386
2021	154,308,226	(191,847)	154,500,073
2022	153,622,330	(189,347)	153,811,677
2023	152,793,865	(191,847)	152,985,713
2024	152,783,404	(190,467)	152,973,871
2025	152,990,810	(190,847)	153,181,657
2026	152,931,345	(192,847)	153,124,192
2027	119,320,338	(189,597)	119,509,936
2028	112,584,916	(192,717)	112,777,633
2029	98,305,368	(191,249)	98,496,617
2030	83,592,770	(188,696)	83,781,466
2031	67,079,592	(188,376)	67,267,968
2032	46,301,438	-	46,301,438
2033	28,890,438	-	28,890,438
2034	10,494,750	-	10,494,750
Total	\$1,639,748,007	(\$2,288,804)	\$1,642,036,811
	A4#4 000 CCC		A484 800 5-5
MADS	\$154,308,226		\$154,500,073



Refunding Results on 2015C COPs – Level Savings (Noncallable)

• The District could remove the call option on the 2030 and 2031 maturities when refunding the 2015C COPs, which would allow the District to terminate the swap and realize reduced net present value dissavings compared to the same refunding scenarios with the call option.

Assumptions & Summary Refunding Results				
Dated/Delivery Date	7/1/2019			
First Interest Payment	1/1/2020			
Call Date	-			
Final Maturity	7/1/2031			
All-In TIC	4.969%			
Arbitrage Yield	2.222%			
NPV Savings	(618, 193)			
% NPV Savings of Refunded Bonds	(0.951%)			

MADS	\$154,308,226		\$154,401,323
- Jotal	Ψ1,000,140,001	(\$001,004)	ψ1,010,000,011
Total	\$1,639,748,007	(\$851,804)	\$1,640,599,811
2034	10,494,750	-	10,494,750
2033	28,890,438	-	28,890,438
2032	46,301,438	-	46,301,438
2031	67,079,592	(30,876)	67,110,468
2030	83,592,770	(34,196)	83,626,966
2029	98,305,368	(29,749)	98,335,117
2028	112,584,916	(29,467)	112,614,383
2027	119,320,338	(93,097)	119,413,436
2026	152,931,345	(93,097)	153,024,442
2025	152,990,810	(93,097)	153,083,907
2024	152,783,404	(84,467)	152,867,871
2023	152,793,865	(93,097)	152,886,963
2022	153,622,330	(93,097)	153,715,427
2021	154,308,226	(93,097)	154,401,323
2020	\$153,748,419	(\$84,467)	\$153,832,886
Year	Service	Refunding	After Refunding
	Existing Debt	2015C	Debt Service
	Aggregate	Savings from	Aggregate



Comparison of 2015C Refunding Structures

- Level Savings
 - NPV Savings: (\$1,856,394) or (2.856%)
 - Estimated Annual Cash Flow Savings: (\$190,734)
 - MADS: \$154,500,073
- Level Savings (Noncallable)
 - NPV Savings: (\$618,193) or (0.951%)
 - MADS: \$154,401,323



V. Summary/Conclusion



Recommendations

- TAN Recommendation
 - Increase par amount issued and monitor market conditions to set maturity based on interest rates at the time of issuance
- Swap Terminations
 - PFM recommends that the District move forward with document approval for terminating the swaps and refunding the Series 2014A and 2015C COPs
 - Recommended threshold is no more than 3% present value loss
 - Move forward with 2014A immediately and a combined refunding of the 2014A and 2015C if market conditions remain favorable
 - Staff will set principal amortization structure based on market conditions and capital budget parameters