ISD 709 - Duluth Public Schools, MN

Date prepared: April 22, 2019

Totals

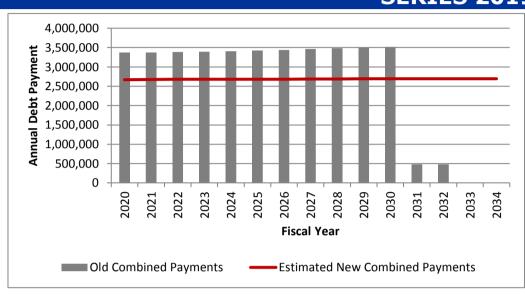
30,943,600



ASSUMPTIONS

- (1) Series 2019A certificates will current refund Certificates of Participation, Series 2009B; Final Dated Date of May 29, 2019.
- (2) Series 2009B 2020-2030 maturities were callable on March 1, 2019 and will be current refunded with the 2019A Certificates on May 29, 2019.
- (3) Illustration is final and utilizes non bank qualified borrowing rates as well as the District's Moody's Ba2 underlying essential purpose rating.

SERIES 2019A: CURRENT REFUNDING OF 2009B COPS



How do we achieve the change in payments shown on the left?

By exchanging old interest rates with new interest rates shown to the right and extending the final maturity by 4 years.

Impact on All General Fund

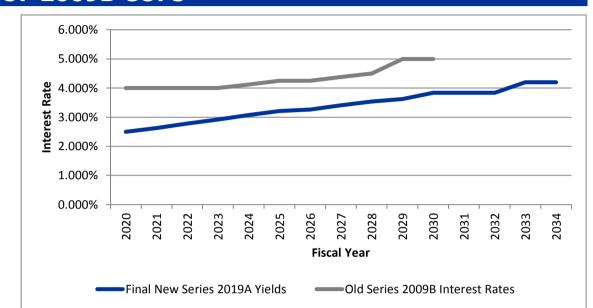
COP Payments

Old Combined

38,722,634

New Combined

40,284,003



Impact on 2009B Certificates

Old Series			Payments	Payments
2009B	Final New Series	Gross Impact	(2009B,2010D,	(2010D,2012B, &
Payments	2019A Payments	(net of all costs)	& 2012B)	2019A)
2,734,756	2,034,084	700,672	3,371,785	2,671,113
2,742,156	2,039,905	702,251	3,374,585	2,672,334
2,756,556	2,049,655	706,901	3,388,985	2,682,084
2,767,556	2,053,055	714,501	3,393,610	2,679,109
2,785,156	2,055,255	729,901	3,408,610	2,678,709
2,806,419	2,063,005	743,414	3,425,585	2,682,171
2,825,681	2,069,130	756,551	3,439,023	2,682,471
2,850,269	2,073,130	777,139	3,461,810	2,684,671
2,871,800	2,079,730	792,070	3,480,566	2,688,496
2,894,750	2,088,730	806,020	3,499,285	2,693,265
2,908,500	2,089,930	818,570	3,512,653	2,694,083
	2,213,530	(2,213,530)	481,988	2,695,518
	2,209,530	(2,209,530)	484,150	2,693,680
	2,692,730	(2,692,730)		2,692,730
	2,693,570	(2,693,570)		2,693,570

(1,561,369)

	Final New Series 2019A	Old Series 2009B Interest
Maturity	Yields	Rates
2020	2.500%	4.000%
2021	2.630%	4.000%
2022	2.780%	4.000%
2023	2.920%	4.000%
2024	3.070%	4.125%
2025	3.210%	4.250%
2026	3.260%	4.250%
2027	3.410%	4.375%
2028	3.540%	4.500%
2029	3.620%	5.000%
2030	3.840%	5.000%
2031	3.840%	
2032	3.840%	
2033	4.200%	
2034	4.200%	

	Refunding Par		Costs of Issuance			Total Payment	NPV				
	Date	Amount	Premium	/ Rounding	Refunded*	Payment Difference	Rounding	Difference	Difference	Final Maturity	TIC %**
	2/28/19	23,745,000	773,106.28	264,050.00	24,254,056	(4,346,724.93)	15.25	(4,346,709.68)	(493,291.26)	2036	4.67%
	3/12/19	23,745,000	773,106.28	264,050.00	24,254,056	(4,346,724.93)	15.25	(4,346,709.68)	(493,291.26)	2036	4.67%
	4/16/19	22,990,000	1,435,499.86	270,115.00	24,155,385	(2,861,911.03)	761.33	(2,861,149.70)	56,358.45	2035	4.28%
INAL	4/22/19	24,130,000	301,643.60	276,258.74	24,155,385	(1,561,368.70)	1,918.61	(1,559,450.09)	694,553.49	2034	3.91%

^{*} Closing date of refunding certificates and 2009B Certificate Refunding date now align on May 29, 2019 as of the last two scenarios shown above.

32,504,969

^{**} True Interest Cost % of the 2009B Certificates was approximately 4.20%