

**ISD 709 - Duluth Public Schools, MN**

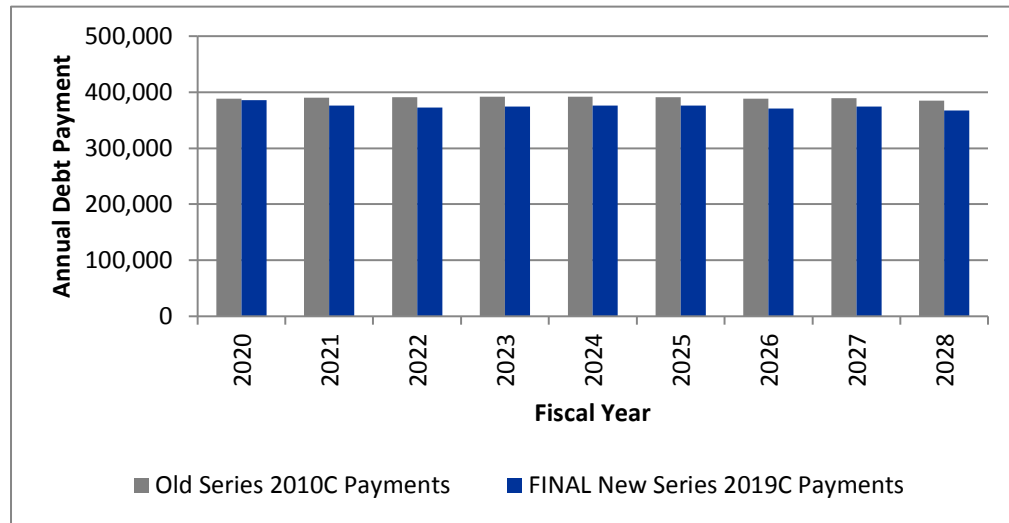
Date prepared: April 23, 2019



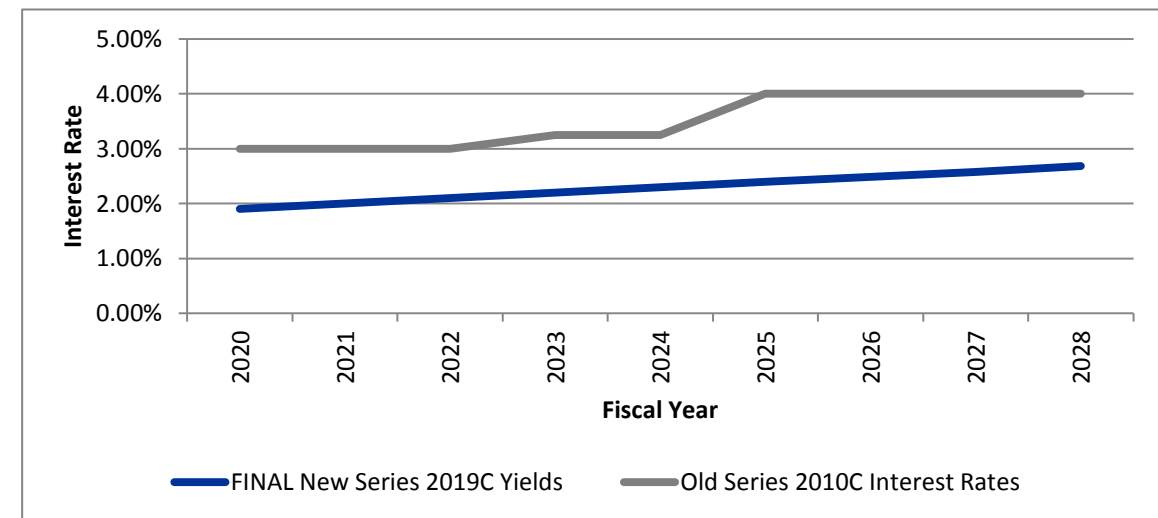
**ASSUMPTIONS**

- (1) Series 2019C certificates will current refund Full Term Certificates of Participation, Series 2010C; Dated Date of May 29, 2019
- (2) Series 2010C 2020-2028 maturities were callable on February 1, 2019 and will be current refunded with the 2019C Certificates on May 29, 2019
- (3) Below illustration is FINAL and reflects April 17, 2019 pricing results based on Moody's Ba1 Underlying Rating and Aa2 MN School Credit Enhancement rating

**SERIES 2019C: CURRENT REFUNDING OF 2010C FULL TERM COPs**



How do we achieve the savings shown on the left?  
  
By exchanging old interest rates with new interest rates shown to the right.



Fiscal Year	Old Series 2010C Payments	FINAL New Series 2019C Payments	Gross Savings (net of all costs)
2020	388,750	386,086	2,664
2021	390,200	375,750	14,450
2022	391,350	373,000	18,350
2023	392,200	374,750	17,450
2024	391,963	375,750	16,213
2025	391,400	376,000	15,400
2026	388,000	370,500	17,500
2027	389,200	374,500	14,700
2028	384,800	367,500	17,300
Totals	3,507,863	3,373,836	134,026

Maturity	FINAL New Series 2019C Yields	Old Series 2010C Interest Rates
2020	1.90%	3.00%
2021	2.00%	3.00%
2022	2.10%	3.00%
2023	2.20%	3.25%
2024	2.30%	3.25%
2025	2.40%	4.00%
2026	2.49%	4.00%
2027	2.58%	4.00%
2028	2.68%	4.00%

Date	Refunding Par Amount	Premium***	Costs of Issuance / Rounding	Net Amount Refunded*	Interest Cost Savings	Rounding	Total Interest Cost Savings^	NPV Savings	Final Maturity	TIC %**
2/28/19	2,730,000	301,928.37	53,122.81	2,978,806	107,112.50	1,022.81	108,135.31	95,851.23	2028	2.81%
2/28/19	2,730,000	301,928.37	53,122.81	2,978,806	107,112.50	1,022.81	108,135.31	95,851.23	2028	2.81%
4/16/19	2,730,000	293,361.77	54,354.83	2,969,007	108,604.17	754.83	109,359.00	96,069.49	2028	2.82%
<b>FINAL</b>	<b>4/17/19</b>	<b>2,710,000</b>	<b>312,021.97</b>	<b>2,969,007</b>	<b>134,026.39</b>	<b>997.80</b>	<b>135,024.19</b>	<b>119,541.23</b>	<b>2028</b>	<b>2.66%</b>

\* Closing date of refunding certificates and 2010C Certificate Refunding date now align on May 29, 2019 as of the last two scenarios shown above.  
 \*\* True Interest Cost % of the 2010C Certificates was approximately 3.16%  
 \*\*\* Includes balance in Contract Revenue Fund of \$51.97  
 ^ Final interest cost savings per million of borrowing is \$49,824.42