DAY THREE SESSION THREE

Marketing and Pricing

Municipal Debt Essentials

Accessing the Market

October 28, 2016

Presentation by:
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Review

- On Days 1 and 2 you were given a broad brush of the market that laid the foundation for a bond financing. You learned:
 - how the market is evolving;
 - how to determine the optimal financing option, plan of finance and structure
 - how to select the professionals who will assist you in issuing bonds
 - the important role of rating agencies and bond insurers
- Earlier today you learned the importance of initial disclosure
 - All the parts that need to come together before you can raise capital

Now it's time to issue bonds!

What This Session Teaches

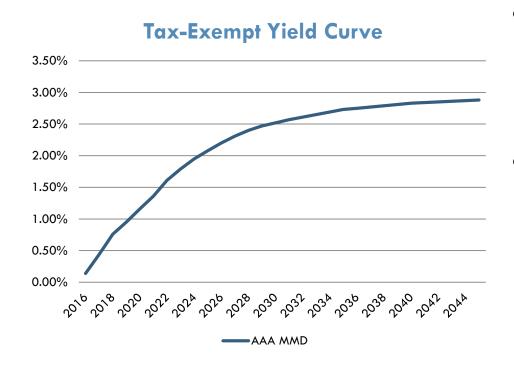
- In this session you will learn the basic concepts and processes associated with selling bonds in the <u>primary market</u>
- This session can be grouped into three broad categories
 - Interest Rates
 - How the Market Determines the Prices for Bonds
 - Bond Sale Processes and Investors

Interest Rates

- We are going to discuss fixed rate, current interest bonds
- We're going to cover the big picture items with interest rates:
 - Yield Curve
 - 2. Coupons
 - 3. Yields
 - 4. Prices
- We're going to apply this information to demonstrate how a municipal bond is priced and sold in the primary market

Yield Curve

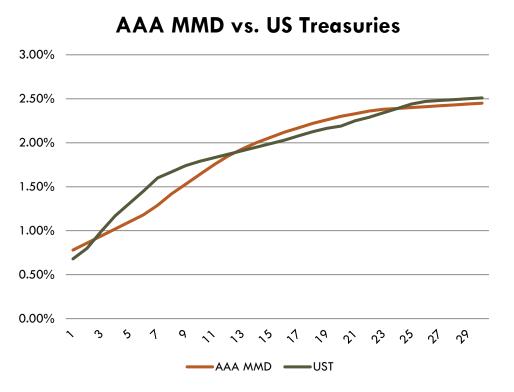
The Yield Curve shows interest rates plotted over a set timeframe – typically 30-years



- The "shape" of the yield curve tells you the market's expectations of future conditions
- A typical yield curve is upward sloping, with lower interest rates at the beginning of the curve and higher interest rates at the end of the curve

Yield Curve

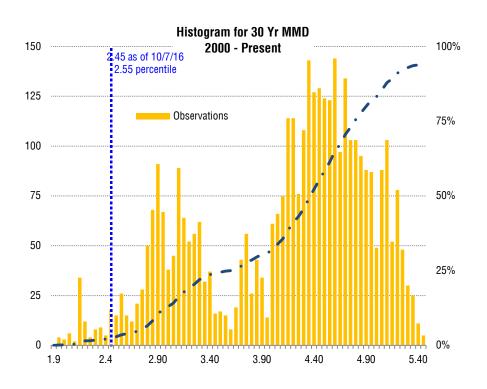
Historically, tax-exempt interest rates have moved in sympathy with Treasury rates

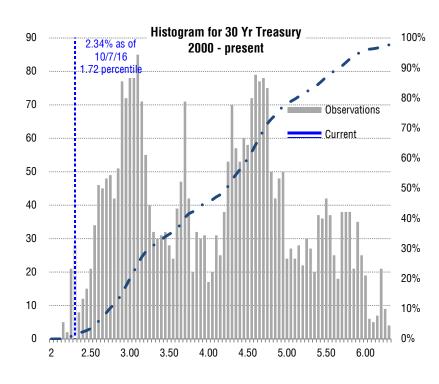


- The relationship of taxexempt interest rates to Treasuries is worth noting
- Historically, tax-exempt interest rates are about 80% of comparable maturity Treasury rates
- Because of the low level of real interest rates, this relationship is currently distorted

Yield Curve

Both taxable and tax-exempt long-term interest rates are near their respective historical lows





Factors Influencing Yields

Multiple internal and external factors influence new issue yields

Fundamental

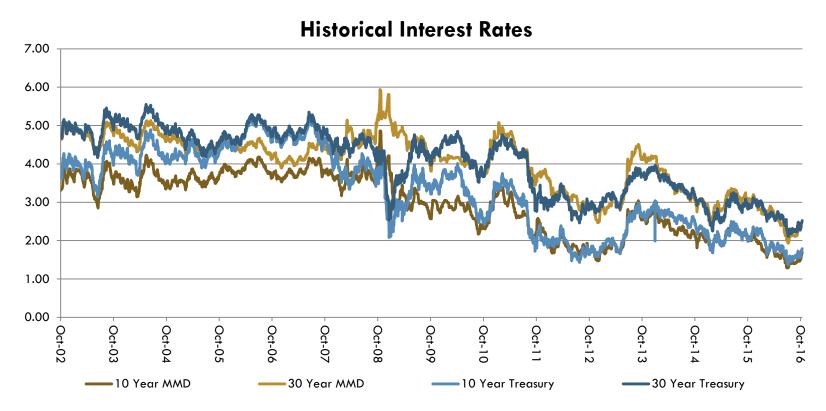
- Economics
- Inflationary Expectations
- Monetary Policy
- Global Events

Technical

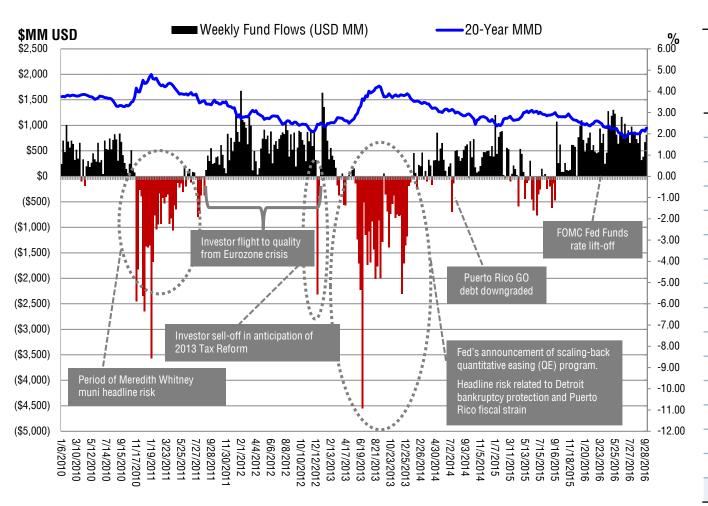
- Supply and Demand
- Sector
- Comparable Securities
- Specific Features of Financing

Historical Interest Rates

The yield curve continuously changes and impacts the optimal bond structure



Fund Flows Influence Yields



Trailing 16-Week Data				
Muni Fund Reporting Date	Weekly Fund Flow (\$MM USD)	20-Yr AAA MMD		
6/22/2016	\$1,166.40	2.04%		
6/29/2016	\$743.76	1.89%		
7/6/2016	\$1,031.04	1.80%		
7/13/2016	\$814.48	1.90%		
7/20/2016	\$903.47	2.01%		
7/27/2016	\$652.80	2.01%		
8/3/2016	\$972.81	2.04%		
8/10/2016	\$851.35	2.03%		
8/17/2016	\$878.46	2.01%		
8/24/2016	\$728.94	2.00%		
8/31/2016	\$652.14	2.00%		
9/7/2016	\$881.81	2.01%		
9/14/2016	\$318.63	2.16%		
9/21/2016	\$385.89	2.18%		
9/28/2016	\$671.25	2.12%		
10/05/2016	\$813.65	2.27%		

Coupon, Price and Yield - Defined

- Principal is the corpus due each year on the loan
- Coupon is the interest rate the municipality pays on a particular bond with a particular maturity
- Yield is the annual return the investor receives on a bond
- Price (not shown) is the amount the investor pays to purchase the bond

MATURITY SCHEDULE

\$3,055,000 Serial Bonds

Maturity Date	Poster along 1	C	\$71.11
(November 1)	<u>Principal</u>	<u>Coupon</u>	<u>Yield</u>
2015	\$145,000	3.000%	0.250%
2016	150,000	3.000	0.450
2017	155,000	3.000	0.700
2018	160,000	3.000	0.980
2019	165,000	3.000	1.280
2020	170,000	4.000	1.580
2021	175,000	4.000	1.830
2022	185,000	4.000	2.080
2023	190,000	4.000	2.230
2024	200,000	4.000	2.380
2025	205,000	4.000	2.480 ^C
2026	215,000	4.000	2.590 ^C
2027	225,000	3.000	3.000
2028	230,000	3.000	3.044
2029	240,000	3.000	3.147
2030	245,000	3.125	3.205
	•		

\$1,065,000 3.500% Term Bonds due November 1, 2034, Yield 3.588% \$900,000 3.750% Term Bonds due November 1, 2037, Yield 3.783% \$1,010,000 4.000% Term Bonds due November 1, 2040, Yield 3.790%^C \$1,550,000 4.000% Term Bonds due November 1, 2044, Yield 3.850%^C

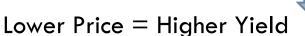
^C Priced to call at par on November 1, 2024.

Coupon, Price and Yield - Applied

Price and Yield move in opposite directions:

Higher Price = Lower Yield





Examples:

Maturity	Principal	Coupon	Yield	Price
2026	\$215,000	4.000%	2.590%	113.444%
2027	\$225,000	3.000%	3.000%	100.000%
2028	\$230,000	3.000%	3.044%	99.500%

- 2026 is a premium bond
- 2027 is a par bond
- 2028 is a discount bond

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\$1,065,000 3.500% Term Bonds due November 1, 2034, Yield 3.588% \$900,000 3.750% Term Bonds due November 1, 2037, Yield 3.783% \$1,010,000 4.000% Term Bonds due November 1, 2040, Yield 3.790%^C \$1,550,000 4.000% Term Bonds due November 1, 2044, Yield 3.850%^C

C Priced to call at par on November 1, 2024.

Coupon, Price and Yield - Impact

Examples:

	Price	Yield	Coupon	Principal	Maturity
premium bond	113.444%	2.590%	4.000%	\$215,000	2026
par bond	100.000%	3.000%	3.000%	\$225,000	2027
discount bond	99.500%	3.044%	3.000%	\$230,000	2028

Price X Principal = Amount Investor Pays and Amount Municipality Receives

Examples:

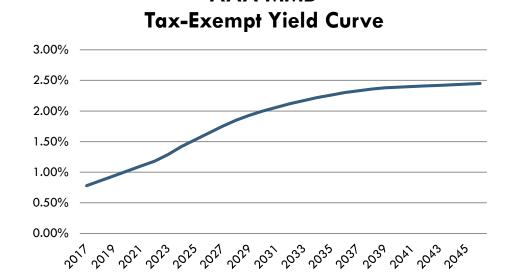
Maturity	Principal	Price	Dollar Price
2026	\$215,000	113.444%	\$243,904.60
2027	\$225,000	100.000%	\$225,000.00
2028	\$230,000	99.500%	\$228,850.00

To a large degree, investor demand will determine how a particular financing is couponed

Municipal Market Data Yield Curve

Generally, the municipal market determines yields in the <u>primary</u> market based on a <u>spread</u> to Municipal Market Data (MMD)

- MMD is an index of theoretical AAA rated state general obligation bonds
- It is not a single security
- It's an opinion of value on which issues can be priced and compared
- Published each afternoon
- Proprietary and subscription based



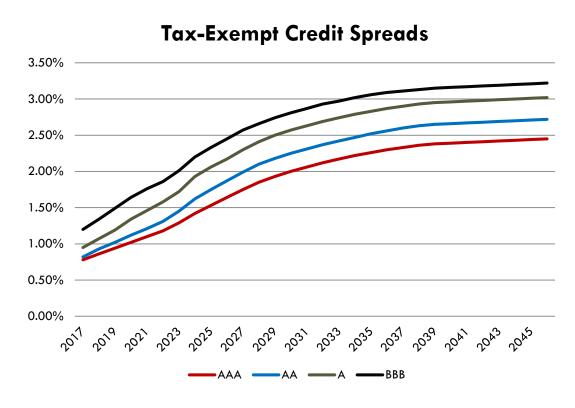
-AAA MMD

AAA MMD

Credit Spreads Between Ratings

Credit spreads are a means of compensating investors as the level of perceived risk increases from the benchmark

- The lower the credit quality, the higher the credit spread
- Credit spreads are not constant and change over time
- Credit spreads can be different for similarly rated credits in different sectors



Credit Spreads Between Sectors

The municipal market has a variety of security structures and sectors and each prices differently

- General obligation bonds and essential service utilities have the "tightest" spreads
- Revenue bonds vary by sector based on pledged revenues
- Not-for-Profits, Health Care and Land Secured tend to have the highest spreads

	10-Year Spot for MMD			
	AA	Α	BBB	
General Obligation Bond	+20	+55	+80	
Essential Service Utility	+35	+70	+90	
Airport Revenue Bond	+50	+65	+90	
Sales Tax Revenue Bond	+40	+60	+85	
Tax Allocation Bond	+40	+75	+120	
Certificates of Participation	+60	+75	+135	
Lease Revenue Bond	+60	+75	+100	
Not-for-Profit	+35	+65	+90	
Health Care	+35	+75	+100	

Comparables

- A "comparable" is another benchmark showing interest rates and spreads to MMD of similarly rated, often similarly secured transactions that have been recently priced in the primary market
- There is almost never a "perfect" comparable, although with certain security structures, such as general obligation bonds issued by California school districts, one can come close
- The more comparables one can find, the better
- The more "unique" a particular credit is, the more difficult it will be to find comparable securities

Size:

Amortization:

Comparables

Summary Terms of Offering

Issuer: Pajaro Valley Unified School District

Issue: General Obligation Bonds Election of

2012, Series C Aa2/A+/NR \$40,000,000 2017 - 2045

Call Provision: Optional call on 02/01/2026 at par

Award Date: 2/3/2016

Underlying Ratings (M/S/F):

Pricing Results							
Maturity	Principal	Coupon	Yield	Spread to MMD			
8/1/2017	\$1,385,000	2.000%	0.540%	0.00%			
8/1/2018	\$1,525,000	3.000%	0.730%	0.00%			
8/1/2019	\$400,000	4.000%	0.900%	0.07%			
8/1/2023	\$100,000	5.000%	1.480%	0.16%			
8/1/2024	\$190,000	5.000%	1.660%	0.18%			
8/1/2025	\$325,000	5.000%	1.820%	0.20%			
8/1/2026	\$470,000	5.000%	1.950%	0.23%			
8/1/2027	\$625,000	5.000%	2.110%	0.30%			
8/1/2028	\$745,000	5.000%	2.250%	0.35%			
8/1/2029	\$845,000	5.000%	2.330%	0.35%			
8/1/2030	\$950,000	5.000%	2.390%	0.35%			
8/1/2031	\$1,065,000	5.000%	2.470%	0.35%			
8/1/2032	\$1,190,000	5.000%	2.550%	0.35%			
8/1/2033	\$1,320,000	5.000%	2.600%	0.35%			
8/1/2035	\$3,050,000	4.000%	3.050%	0.70%			
8/1/2040	\$10,410,000	5.000%	2.950%	0.32%			
8/1/2045	\$15,405,000	4.000%	3.450%	0.74%			

Day Three - Session Three

Issuer: Torrance Unified School District
General Obligation Bonds, Election of 2008, (Measure Y), Series 2016

Underlying Ratings (M/S/F): Aa2/AA-/NR
Size: \$65,375,000
Amortization: 2018 - 2039

Call Provision: Optional call on 8/1/2026 at par

Pricing Posult

Award Date: 1/27/2016

Pi			ing Results		
	Maturity	Principal	Coupon	Yield	Spread to MMD
	8/1/2018	\$1,275,000	2.000%	0.750%	0.0 <mark>7</mark> %
	8/1/2019	\$725,000	4.000%	0.860%	0.05%
	8/1/2020	\$590,000	2.000%	1.000%	0.06%
	8/1/2021	\$285,000	3.000%	1.120%	0.07%
	8/1/2021	\$370,000	2.000%	1.120%	0.07%
	8/1/2022	\$350,000	4.000%	1.250%	0.07%
	8/1/2023	\$235,000	2.250%	1.440%	0.10%
	8/1/2024	\$1,070,000	4.000%	1.610%	0.11%
	8/1/2025	\$220,000	4.000%	1.800%	0.16%
	8/1/2026	\$915,000	4.000%	1.950%	0.20%
	8/1/2027	\$3,485,000	5.000%	2.070%	0.22%
	8/1/2028	\$3,850,000	4.000%	2.330%	0.39%
	8/1/2029	\$3,945,000	4.000%	2.510%	0.48%
	8/1/2030	\$3,915,000	4.000%	2.640%	0.52%
	8/1/2031	\$2,100,000	4.000%	2.770%	0.57%
	8/1/2032	\$2,670,000	3.000%	3.000%	0.72%
	8/1/2033	\$1,170,000	3.000%	3.080%	0.75%
	8/1/2034	\$995,000	3.000%	3.140%	0.76%
	8/1/2035	\$4,655,000	3.000%	3.190%	0.76%
	8/1/2036	\$4,990,000	4.000%	3.060%	0.58%
	8/1/2037	\$5,420,000	4.000%	3.110%	0.58%
	8/1/2039	\$22,145,000	4.000%	3.210%	0.58%

Pricing a Bond Issue

Recap of things covered so far...

- We covered interest rates and yield curve
- We covered coupon, price and yield
- We covered credit spreads
- We've covered comparables

Next we're going to walk through the process of a negotiated bond sale in the public markets...

What the Underwriter Considers

When structuring a transaction, the underwriter considers a variety of factors intended to generate the most demand and best prices for the bonds

- Credit quality
- The size of the transaction and the individual maturities
- The final maturity relative to the shape of the yield curve
- Redemption features
- Yields for comparable securities
- Likely investors in the bonds
- Attractive coupon structure for investors

Investors and Investor Classes

Maturity	Par	Coupon	Yield	Tier	Types of Investors	Attributes
10/1/2017	1,525	4.000%	1.180%		Small Bank Trust Depts.	Buy Small Blocks
10/1/2018	1,790	4.000%	1.310%		High Net Worth	Least Sophisticated
10/1/2019	1,880	4.000%	1.440%		Directed Accounts	Buy and Hold
10/1/2020	1,975	4.000%	1.570%		• SMAs	Quality and Name Driven
10/1/2021	2,075	4.000%	1.700%		 Smaller Corporations 	
10/1/2022	2,180	4.000%	1.830%	├ _ Tier III		
10/1/2023	2,285	5.000%	1.970%			1
10/1/2024	2,400	5.000%	2.120%		• Consultant Advitional Frontier	Brown AA a altituma Pila alita
10/1/2025	2,520	5.000%	2.230%		Smaller Mutual FundsSmaller Insurance Cos.	Buy Medium Blocks Sophisticated
10/1/2026	2,645	5.000%	2.340%		Smaller Insurance Cos. Smaller Pension Funds	Typically Buy and Hold
10/1/2027	2,780	5.000%	2.470%	J	Smaller Money Mngrs.	1 Typically boy and floid
10/1/2028	2,920	5.000%	2.600%		Directed Accounts	
10/1/2029	3,065	5.000%	2.680%		Directed / tecoonis	
10/1/2030	3,215	5.000%	2.750%	├ Tier II		
10/1/2031	3,375	5.000%	2.810%			
10/1/2032	3,440	5.000%	2.870%		Major Mutual Funds	Buy Large Blocks
10/1/2033	3,525	5.000%	2.920%		 Large Pension Funds 	Highly Sophisticated
10/1/2034	3,680	5.000%	2.970%		Insurance Companies	Price and Duration
10/1/2035	3,815	5.000%	3.010%	├ Tier I	 Large Trust Funds 	Actively Managed
10/1/2036	3,975	5.000%	3.050%		 Large Money Managers 	
10/1/2041	21,350	5.000%	3.190%			
10/1/2046	28,615	5.000%	3.300%			

Structure Wire

- Three or four days prior to the sale date, the underwriter will put out a "structure wire"
- The wire goes out electronically to all other underwriters on the transaction as well as investors
- The primary purpose is to give the market a sense of maturity structure, rating and call features

RE: \$ 264,500,000* Sweetwater Union High School District

Please use the following updated spreads for Pre-Marketing of Series 2016 Refunding.

\$ 167,500,000*

2016 General Obligation Refunding Bonds

ADDLT

MOODY'S: A1 S&P: A+ FITCH: AAA

DATED: FIRST COUPON:08/01/2016

DUE: 08/01

				ADD'L		
				TAKEDOWN		
MATURITY	AMOUNT*	COUPON	FRICE	(Pts)	SPREAD TO M	MD
08/01/2020	255M	4.00%			+25	
08/01/2021	265M	4.00%			+28	
08/01/2022	270M	4.00%			+30	
08/01/2023	280M	4.00%			+33	
08/01/2024	295M	4.00%			+35	
08/01/2025	305M	4.00%			+38	
08/01/2026	315M	4.00%			+40	
08/01/2027	330M	5.00%			+40	
08/01/2028	345M	5.00%			+40	
08/01/2029	355M	5.00%			+40	
08/01/2030	6,065M	5.00%			+40	
08/01/2031	6,3704	5.00%			+40	
08/01/2032	6,690M	5.00%			+40	
08/01/2033	7,025M	5.00%			+40	
08/01/2034	7,375M	5.00%			+40	
08/01/2035	7,745M	5.00%			+40	
08/01/2036	8,130M	5.00%			+40	
08/01/2042	5€,615M	4.00%			+70	
08/01/2047	58,470M	4.00%			+70	

CALL FEATURES: Optional call in 02/01/2026 @ 100.00

Sinking Fund Schedule

2042 Term Bond

08/01/2037	8,535M
08/01/2038	8,880M
08/01/2039	9,230M
08/01/2040	9,600M
08/01/2041	9,985M
08/01/2042	10,385M

Retail/Pre-Marketing Scale

- The second wire is the retail wire (if there's a retail order period) or the pre-pricing scale
- The primary purpose is to take retail orders (if there's a retail order period) and to aggressively seek institutional investor feedback

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RE: $ 266, 365, 000*
Sweetwater Union High School District
General Obligation Bonds
We have a release. Order period until 11:30AM EDST.
                                       $ 169,365,000*
                          2016 General Obligation Refunding Bonds
 MOODY'S: A1
                                                        FITCH: AAA
  DATED: 03/24/2016
                     FIRST COUPON: 08/01/2016
  DUE: 08/01
                                           ADD'T.
                                           TAKEDOWN
MATURITY
              AMOUNT*
                         COUPON
                                    PRICE
                                           ( Pts )
08/01/2018
                           4.00%
                                      0.86
                         (Approx. $ Price 107.297)
08/01/2019
                           4.00%
                                     1.04
                         (Approx. $ Price 109.727)
08/01/2020
                                     1.20
                           4.00%
                         (Approx. $ Price 111.839)
08/01/2021
                  265M
                           4.00%
                                     1,41
                         (Approx. $ Price 113.306)
08/01/2022
                  275M
                           4.00%
                                     1.61
                         (Approx. $ Price 114.375)
08/01/2023
                  285M
                           4.00%
                                     1.84
                         (Approx. $ Price 114.789)
08/01/2024
                           4.00%
                                      2.02
                         (Approx. $ Price 115.146)
08/01/2025
                           4.00%
                                      2.20
                        (Approx. $ Price 115.138)
08/01/2026
                           4.00%
                                     2.34
                       (Approx. $ Price PTC 02/01/2026 114.529)
08/01/2027
                           5.00%
                                     2.43
                       (Approx. $ Price PTC 02/01/2026 122.395)
08/01/2028
                  350M
                           5.00%
                                     2.52
                       (Approx. $ Price PTC 02/01/2026 121.515)
08/01/2029
                           5.00%
                                     2.60
                       (Approx. $ Price PTC 02/01/2026 120.739)
08/01/2030
                6,085M
                           5.00%
                                     2.66
                       (Approx. $ Price PTC 02/01/2026 120.161)
08/01/2031
                6,385M
                           5.00%
                                     2.74
                      (Approx. $ Price PTC 02/01/2026 119.395)
08/01/2032
                           5.00%
                                      2.83
                       (Approx. $ Price PTC 02/01/2026 118.541)
08/01/2033
                                     2.88
                      (Approx. $ Price PTC 02/01/2026 118.069)
08/01/2034
                           5.00%
                                     2.93
                      (Approx. $ Price PTC 02/01/2026 117.600)
08/01/2035
                7,765M
                           5.00%
                                     2.98
                      (Approx. $ Price PTC 02/01/2026 117.133)
08/01/2036
                           5.00%
                                     3.03
                       (Approx. $ Price PTC 02/01/2026 116.668)
08/01/2042
                           4.00%
                      (Approx. $ Price PTC 02/01/2026 103.541)
```

Preliminary Pricing Wire

- The preliminary pricing wire – which is published first thing on the morning of pricing – officially opens the order period to all investors
- The underwriter will accept orders for bonds at these prices and yields
- Market demand may alter coupon or yield for any given maturity

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General Obligation Bonds
We have a release. Order period until 11:30AM EDST.
                                       $ 169,365,000*
                          2016 General Obligation Refunding Bonds
  MOODY'S: A1
                               58P: A+
                                                       FITCH: AAA
  DATED: 03/24/2016
                     FIRST COUPON: 08/01/2016
  DUE: 08/01
                                           ADD'L
                                           TAKEDOWN
MATURITY
              AMOUNT*
                         COUPON
                                    PRICE
                                          ( Pts )
08/01/2018
                           4.00%
                                      0.86
                         (Approx. $ Price 107.297)
08/01/2019
                           4.00%
                                     1.04
                         (Approx. $ Price 109.727)
08/01/2020
                                     1.20
                           4.00%
                         (Approx. $ Price 111.839)
08/01/2021
                  265M
                           4.00%
                                     1,41
                         (Approx. $ Price 113.306)
08/01/2022
                  275M
                           4.00%
                                      1.61
                         (Approx. $ Price 114.375)
08/01/2023
                  285M
                           4.00%
                                     1.84
                         (Approx. $ Price 114.789)
08/01/2024
                  300M
                           4.00%
                                      2.02
                         (Approx. $ Price 115.146)
08/01/2025
                           4.00%
                                      2.20
                         (Approx. $ Price 115.138)
08/01/2026
                           4.00%
                                      2.34
                      (Approx. $ Price PTC 02/01/2026 114.529)
08/01/2027
                           5.00%
                                     2,43
                       (Approx. $ Price PTC 02/01/2026 122.395)
08/01/2028
                  350M
                           5.00%
                                     2.52
                       (Approx. $ Price PTC 02/01/2026 121.515)
08/01/2029
                           5.00%
                                    2.60
                      (Approx. $ Price PTC 02/01/2026 120.739)
08/01/2030
                6,085M
                           5.00%
                                     2.66
                      (Approx. $ Price PTC 02/01/2026 120.161)
08/01/2031
                6,385M
                           5.00%
                                      2.74
                      (Approx. $ Price PTC 02/01/2026 119.395)
08/01/2032
                           5.00%
                                      2.83
                       (Approx. $ Price PTC 02/01/2026 118.541)
08/01/2033
                                      2.88
                           5.00%
                      (Approx. $ Price PTC 02/01/2026 118.069)
08/01/2034
                           5.00%
                                    2.93
                      (Approx. $ Price PTC 02/01/2026 117.600)
08/01/2035
                7,765M
                           5.00%
                                     2.98
                      (Approx. $ Price PTC 02/01/2026 117.133)
08/01/2036
                           5.00%
                                     3.03
                      (Approx. $ Price PTC 02/01/2026 116.668)
08/01/2042
                           4.00%
                      (Approx. $ Price PTC 02/01/2026 103.541)
```

RE: \$ 266,365,000*

Sweetwater Union High School District

Order Monitor

- Most underwriting firms subscribe to Ipreo, an electronic securities platform providing a number of tools for the capital markets
- Underwriters will use Ipreo to accept and monitor orders, among other things
- Issuers gain access to the platform on the internet through their underwriter, allowing them and their advisors to monitor the book of business as it's developing throughout the pricing

Order Monitor – Book of Business

Maturity	,	Amount	Total Member Retail (\$000's)	-	Total Member Non-Retail (\$000's)	Total Member (\$000's)	To	tal (\$000's)	Ba	alance (\$000's)
08/01/2018 16	\$	685.00	\$ -	\$	2,190.00	\$ 2,190.00	\$	2,190.00	\$	(1,505.00)
08/01/2019 16	\$	470.00	\$ -	\$	2,165.00	\$ 2,165.00	\$	2,165.00	\$	(1,695.00)
08/01/2020 16	\$	480.00	\$ -	\$	1,115.00	\$ 1,115.00	\$	1,115.00	\$	(635.00)
08/01/2021 16	\$	265.00	\$ -	\$	1,075.00	\$ 1,075.00	\$	1,075.00	\$	(810.00)
08/01/2022 16	\$	275.00	\$ -	\$	650.00	\$ 650.00	\$	650.00	\$	(375.00)
08/01/2023 16	\$	285.00	\$ -	\$	320.00	\$ 320.00	\$	320.00	\$	(35.00)
08/01/2024 16	\$	300.00	\$ -	\$	515.00	\$ 515.00	\$	515.00	\$	(215.00)
08/01/2025 16	\$	310.00	\$ -	\$	1,200.00	\$ 1,200.00	\$	1,200.00	\$	(890.00)
08/01/2026 16	\$	320.00	\$ -	\$	1,060.00	\$ 1,060.00	\$	1,060.00	\$	(740.00)
08/01/2027 16	\$	335.00	\$ -	\$	1,185.00	\$ 1,185.00	\$	1,185.00	\$	(850.00)
08/01/2028 16	\$	350.00	\$ -	\$	780.00	\$ 780.00	\$	780.00	\$	(430.00)
08/01/2029 16	\$	370.00	\$ -	\$	200.00	\$ 200.00	\$	200.00	\$	170.00
08/01/2030 16	\$	6,085.00	\$ -	\$	13,140.00	\$ 13,140.00	\$	13,140.00	\$	(7,055.00)
08/01/2031 16	\$	6,385.00	\$ -	\$	29,455.00	\$ 29,455.00	\$	29,455.00	\$	(23,070.00)
08/01/2032 16	\$	6,705.00	\$ -	\$	25,755.00	\$ 25,755.00	\$	25,755.00	\$	(19,050.00)
08/01/2033 16	\$	7,045.00	\$ -	\$	36,635.00	\$ 36,635.00	\$	36,635.00	\$	(29,590.00)
08/01/2034 16	\$	7,395.00	\$ -	\$	31,685.00	\$ 31,685.00	\$	31,685.00	\$	(24,290.00)
08/01/2035 16	\$	7,765.00	\$ -	\$	48,635.00	\$ 48,635.00	\$	48,635.00	\$	(40,870.00)
08/01/2036 16	\$	8,155.00	\$ -	\$	76,490.00	\$ 76,490.00	\$	76,490.00	\$	(68,335.00)
08/01/2042 16	\$	56,760.00	\$ -	\$	323,195.00	\$ 323,195.00	\$	323,195.00	\$	(266,435.00)
08/01/2047 16	\$	58,625.00	\$ -	\$	298,550.00	\$ 298,550.00	\$	298,550.00	\$	(239,925.00)
08/01/2019 B	\$	2,325.00	\$ 6,125.00	\$	-	\$ 6,125.00	\$	6,125.00	\$	(3,800.00)
08/01/2020 B	\$	2,370.00	\$ 7,750.00	\$	-	\$ 7,750.00	\$	7,750.00	\$	(5,380.00)
08/01/2021 B	\$	2,415.00	\$ 3,430.00	\$	-	\$ 3,430.00	\$	3,430.00	\$	(1,015.00)
08/01/2022 B	\$	2,475.00	\$ 7,500.00	\$	-	\$ 7,500.00	\$	7,500.00	\$	(5,025.00)
08/01/2023 B	\$	3,800.00	\$ 12,265.00	\$	-	\$ 12,265.00	\$	12,265.00	\$	(8,465.00)
08/01/2024 B	\$	4,125.00	\$ 5,000.00	\$	-	\$ 5,000.00	\$	5,000.00	\$	(875.00)
08/01/2025 B	\$	4,605.00	\$ 5,350.00	\$	-	\$ 5,350.00	\$	5,350.00	\$	(745.00)
08/01/2026 B	\$	4,535.00	\$ 12,880.00	\$	-	\$ 12,880.00	\$	12,880.00	\$	(8,345.00)
08/01/2027 B	\$	4,900.00	\$ 10,000.00	\$	-	\$ 10,000.00	\$	10,000.00	\$	(5,100.00)
08/01/2028 B	\$	5,265.00	\$ 3,990.00	\$	-	\$ 3,990.00	\$	3,990.00	\$	1,275.00
08/01/2029 B	\$	5,605.00	\$ 3,540.00	\$	-	\$ 3,540.00	\$	3,540.00	\$	2,065.00
08/01/2030 B	\$	3,200.00	\$ 2,450.00	\$	-	\$	\$	2,450.00	\$	750.00
08/01/2031 B	\$	2.815.00	\$ 8,365,00	\$	2.815.00	\$ 11,180.00	\$	11,180.00	\$	(8.365.00)
08/01/2032 B	\$	4,500.00	\$ 27,950.00		4,500.00	\$,	\$	32,450.00	\$	(27,950.00)
08/01/2033 B	\$	4,990.00	\$ 25,170.00		4,990.00	\$. ,	\$	30,160.00	\$	(25,170.00)
08/01/2034 B	\$	5,115.00	\$ 15,615.00	\$	5,115.00	\$ ·	\$	20,730.00	\$	(15,615.00)
08/01/2035 B	\$	5,325.00	\$ 15,875.00	_	5,325.00	\$ -,	\$	21,200.00	\$	(15,875.00)
08/01/2036 B	\$	5,610.00	\$ 23,370.00	_	5,610.00	\$,	\$	28,980.00	\$	(23,370.00)
08/01/2040 B	\$	23,025.00	\$ 33,950.00	_	23,025.00	\$ · · · · · · · · · · · · · · · · · · ·	\$	56,975.00	\$	(33,950.00)
	<u> </u>					 				(,,,

Price Adjustments Before Award

- As the book of business develops through the order period, the underwriter may recommend adjusting prices to address demand
- These price
 adjustments are
 discussed and
 negotiated on the
 pricing call

2016 General Obligation Refunding Bonds							
	Pre-I	Pri					
<u>Maturity</u>	Coupon_	Yield	Spread	<u>Coupon</u>	<u>Yield</u>	Spread	Change
8/1/2018	4.00%	0.86%	20	4.00%	0.85%	19	0.01%
8/1/2019	4.00%	1.04%	23	4.00%	1.03%	22	0.01%
8/1/2020	4.00%	1.20%	23	4.00%	1.19%	22	0.01%
8/1/2021	4.00%	1.41%	27	4.00%	1.40%	26	0.01%
8/1/2022	4.00%	1.61%	29	4.00%	1.60%	28	0.01%
8/1/2023	4.00%	1.84%	33	4.00%	1.84%	33	0.00%
8/1/2024	4.00%	2.02%	36	4.00%	2.02%	36	0.00%
8/1/2025	4.00%	2.20%	40	4.00%	2.20%	40	0.00%
8/1/2026	4.00%	2.34%	42	4.00%	2.34%	42	0.00%
8/1/2027	5.00%	2.43%	42	5.00%	2.42%	41	0.01%
8/1/2028	5.00%	2.52%	42	5.00%	2.50%	40	0.02%
8/1/2029	5.00%	2.60%	42	5.00%	2.57%	39	0.03%
8/1/2030	5.00%	2.66%	42	5.00%	2.61%	37	0.05%
8/1/2031	5.00%	2.74%	42	5.00%	2.69%	37	0.05%
8/1/2032	5.00%	2.83%	42	5.00%	2.78%	37	0.05%
8/1/2033	5.00%	2.88%	42	5.00%	2.83%	37	0.05%
8/1/2034	5.00%	2.93%	42	5.00%	2.88%	37	0.05%
8/1/2035	5.00%	2.98%	42	5.00%	2.93%	37	0.05%
8/1/2036	5.00%	3.03%	42	5.00%	2.98%	37	0.05%
8/1/2042*	4.00%	3.57%	70	4.00%	3.52%	70	0.05%
8/1/2047*	4.00%	3.61%	70	4.00%	3.56%	70	0.05%

^{*}Term Bond

Final/Commitment Wire

- The final/commitment wire shows:
 - Time of execution
 - negotiated structure
 - Maturities
 - prices for the bonds
 - Takedown
 - CUSIPs

RE: \$ 265,710,000 Sweetwater Union High School District General Obligation Bonds

We have received the written award. Time of execution is 1:00PM EDST. \$ 168,710,000 2016 General Obligation Refunding Bonds

ADD'L

MOODY'S: Al

S&P: A+

FITCH: AAA

DATED:03/24/2016 FIRST COUPON:08/01/2016

DUE: 08/01

			ADD. I	
			TAKEDOWN	
MATURITY	AMOUNT COUPO	N PRICE	E (Pts)	CUSIP
08/01/2018		0% 0.1	85 1/8	870462TD0
	(Appro	x. \$ Price	e 107.321)	
08/01/2019	470M 4.0	0% 1.0	03 1/4	870462TC2
	(Appro	x. \$ Price	e 109.762)	
08/01/2020	465M 4.0	0% 1.	19 1/4	870462RNO
	(Appro	x. \$ Price	e 111.884)	
08/01/2021	250M 4.0	0% 1.	40 1/4	870462RP5
	(Appro	x. \$ Price	e 113.362)	
08/01/2022	260M 4.0			870462RQ3
	(Appro	x. \$ Price	e 114.440)	
08/01/2023			84 1/4	870462RR1
	(Appro	x. \$ Price	e 114.789)	
08/01/2024	280M 4.0			870462RS9
			e 115.146)	
08/01/2025	295M 4.0			870462RT7
			e 115.138)	
08/01/2026	305M 4.0			870462RU4
	(Approx.		PTC 02/01/2026	
08/01/2027	320M 5.0			
			PTC 02/01/2026	
08/01/2028	335M 5.0			870462RW0
			PTC 02/01/2026	121.710)
08/01/2029	350M 5.0			B70462RX8
			PTC 02/01/2026	121.029)
08/01/2030	6,065M 5.0	00% 2.	61 1/4	
		\$ Price	PTC 02/01/2026	120.642)
08/01/2031	6,365M 5.0			
			PTC 02/01/2026	119.873)
08/01/2032	6,685M 5.0			
		\$ Price	PTC 02/01/2026	119.015)
08/01/2033	7,020M 5.0	00% 2.	83 1/4	
			PTC 02/01/2026	118.541)
08/01/2034		00% 2.		870462SC3
	(Approx.	\$ Price	PTC 02/01/2026	118.069)

Allocation of Bonds to Investors

- In the example we've been sharing, the 2016
 General Obligation Refunding Bonds received nearly \$900 million in orders from over 60 investors
- Large institutional investors put in orders for significant blocks of entire maturities
- Many smaller money managers, trust departments and separately managed accounts also placed orders for the bonds, ranging in size from \$60,000 to \$2,000,000, demonstrating the depth and breadth of investor demand for the bonds
- Bonds were allocated to 52 different investors

Investor	Total	Percentage
Wells Capital Management	\$51,410,000	30.47%
Black Rock	\$9,500,000	5.63%
Eaton Vance Management	\$7,565,000	4.48%
CNA/Lowes	\$6,000,000	3.56%
Mesirow Financial	\$6,000,000	3.56%
CRL Mgt Corp	\$5,770,000	3.42%
Northern Trust	\$5,545,000	3.29%
Capital Research	\$5,000,000	2.96%
RBC Bank Portfolio	\$5,000,000	2.96%
Deutsche Asset Management	\$5,000,000	2.96%
16th Amendment Advisors LLC	\$5,000,000	2.96%
Deutsche Bank AG	\$5,000,000	2.96%
Merrill Arb	\$5,000,000	2.96%
Barclays Global Investors	\$4,500,000	2.67%
Old Orchard Capital Mgmt	\$3,000,000	1.78%
Goldman Asset Management	\$2,865,000	1.70%
PIMCO	\$2,500,000	1.48%
Mackay Shields	\$2,500,000	1.48%
Good Hill Partners	\$2,500,000	1.48%
Putnam Funds	\$2,330,000	1.38%
RSW Investments LLC	\$2,010,000	1.19%
Concordia	\$2,000,000	1.19%
Napier Park Global Capital	\$2,000,000	1.19%
Vanguard	\$2,000,000	1.19%
Edward Jones	\$1,830,000	1.08%
Blackrock SMA	\$1,825,000	1.08%
Wells Fargo Private Asset Management	\$1,660,000	0.98%
McDonnell Investments	\$1,655,000	0.98%
Bess Investments	\$1,570,000	0.93%
Charles Schwab	\$1,500,000	0.89%
Wells Fargo Wealth Management	\$1,250,000	0.74%
Whitebox Advisors LLC	\$1,000,000	0.59%
RMR Asset Management	\$700,000	0.41%
City National	\$625,000	0.37%
Schroders	\$500,000	0.30%
Titan Lion Partners LLC	\$500,000	0.30%
Manulife Financial	\$500,000	0.30%
Rembrandt Capital	\$500,000	0.30%
UBS Financial Services, Inc.	\$450,000	0.27%
Raymond James	\$350,000	0.21%
Sterling Capital	\$300,000	0.18%
Goldman Sachs PWM	\$295,000	0.17%
Mesirow Financial	\$260,000	0.15%
McDonald Capital Investors, Inc.	\$250,000	0.15%
KCM Investment Advisors	\$250,000	0.15%
First Western Investment Management	\$250,000	0.15%
NexWave Capital Partners LLC	\$250,000	0.15%
Humboldt Capital	\$200,000	0.12%
First Empire Securities	\$100,000	0.06%
Williams Jones and Associates	\$95,000	0.06%
Ziegler Asset Management	\$25,000	0.01%
Fidelity Investers	\$25,000	0.01%
	\$168,710,000	100.00%

Conclusion

- We covered a lot of ground
 - ✓ Yield Curves
 - ✓ Coupons
 - ✓ Yields
 - ✓ Prices
 - √ Factors Influencing Prices
 - Credit Spreads
 - MMD and Comparables
 - Marketing Process
 - ✓ Order Books and Investors



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Investment Management Capital Markets Consulting

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