

Debt Review Committee

March 27, 2019
Salt Lake County Government Center
2001 S State Street #N1-200, Salt Lake City, Utah 84190

Meeting Minutes

Attendees:

K Wayne Cushing (Chair), member	Greg Folta (Mayor's Finance)
Dave Delquadro (Council), member	Shanell Beecher (Mayor's Finance)
Darrin Casper (Mayor's Finance), member	Jon Bronson (Zions Bank, ex-officio member)
Jason Rose (County Council), member	Eric Pehrson (Zions Bank)
Scott Tingley (Auditor), member	Marcus Keller (Zions Bank)
Craig Wangsgard (District Attorney)	Lisa Daniels (Treasurer)
Ben Umeadi (Treasurer)	Steve Van Maren (Public)

Meeting was called to order by Chairman Cushing.

Public Comment

Wayne asked if the public had any comments. Mr. VanMaren asked for time to ask questions concerning bonds after the meeting. Jon Bronson agreed to meet with him after the meeting. No other comments were made.

Approval of Minutes

The minutes of January 23, 2019 were reviewed with Jon Bronson requesting a minor correction. A motion was made by Jason and seconded by Dave to approve the corrected minutes. All were in favor.

Financial Advisor Updates

Jon turned the time over to Marcus for the market update. Rates are in a good position for the County. It looks like we will be in a great position when we issue the TRANS. The JP Morgan update shows lowering yield rates due to slowing in the global economy. Feds are slowing down and it will be a good rate environment for issuers for the next year or so. 11 out of 17 FOMC now expect zero hikes in 2019. Inflows continue into bond funds for 11 straight weeks.

Jon reviewed some legislative issues that he has been following. HB 441 was removed and will be reworked. This pertains to sales tax issues. It will be around in an interim session.

Nationally, the movement to bring back advanced refundings is gaining a foothold. This may come in legislation at the national level. The feds want to expand the use of private activity bonds and are talking about bringing back the \$30m limit for bank qualification.

MBA Bond Issuance

This has been the first week of large supply for this year. Jon went over the set of numbers from the MBA sale today. Comparisons with other agencies were shown. We ended right where we should have. By changing the dates on the Net Debt Service Schedule from June/December to January/July the County saved money.

New Market Tax Credit Status

Greg presented a model of the flow of funds for the NMTC. He would like an approval from the Committee to present to the Council. Wayne asked him to get the schedules ready, distribute to the Committee and an electronic meeting will be called with the anchor in the Treasurer's office.

TRANS Draft Calendar Review

Jon passed around a calendar of events for the upcoming TRANS 2019. Eric and Marcus will be assisting us with the due diligence and Moody's as Jon will be in Europe. Sale is scheduled for July 2, but Jon may suggest a move up a or back a week. He suggested we follow the calendar up through June 20th and then make the call whether we move the sale. Due diligence meeting will be moved from May 30 to May 29 to coincide with our regular DRC meeting.

Natural Gas Futures Discussion

Salt Lake County has sent out a RFP for wholesale natural gas. This natural gas takes the same infrastructure as Dominion Energy but doesn't have regulation on its rates. We have signed a contract to enter in as we could save a lot on our big buildings like major recreation centers, Salt Palace, South Towne and maybe 1 or 2 libraries. This could save the County \$250,000 to \$300,000 per year just by entering into the contract. This is not speculative, it is covered. Zions will help do an analysis.

New Business

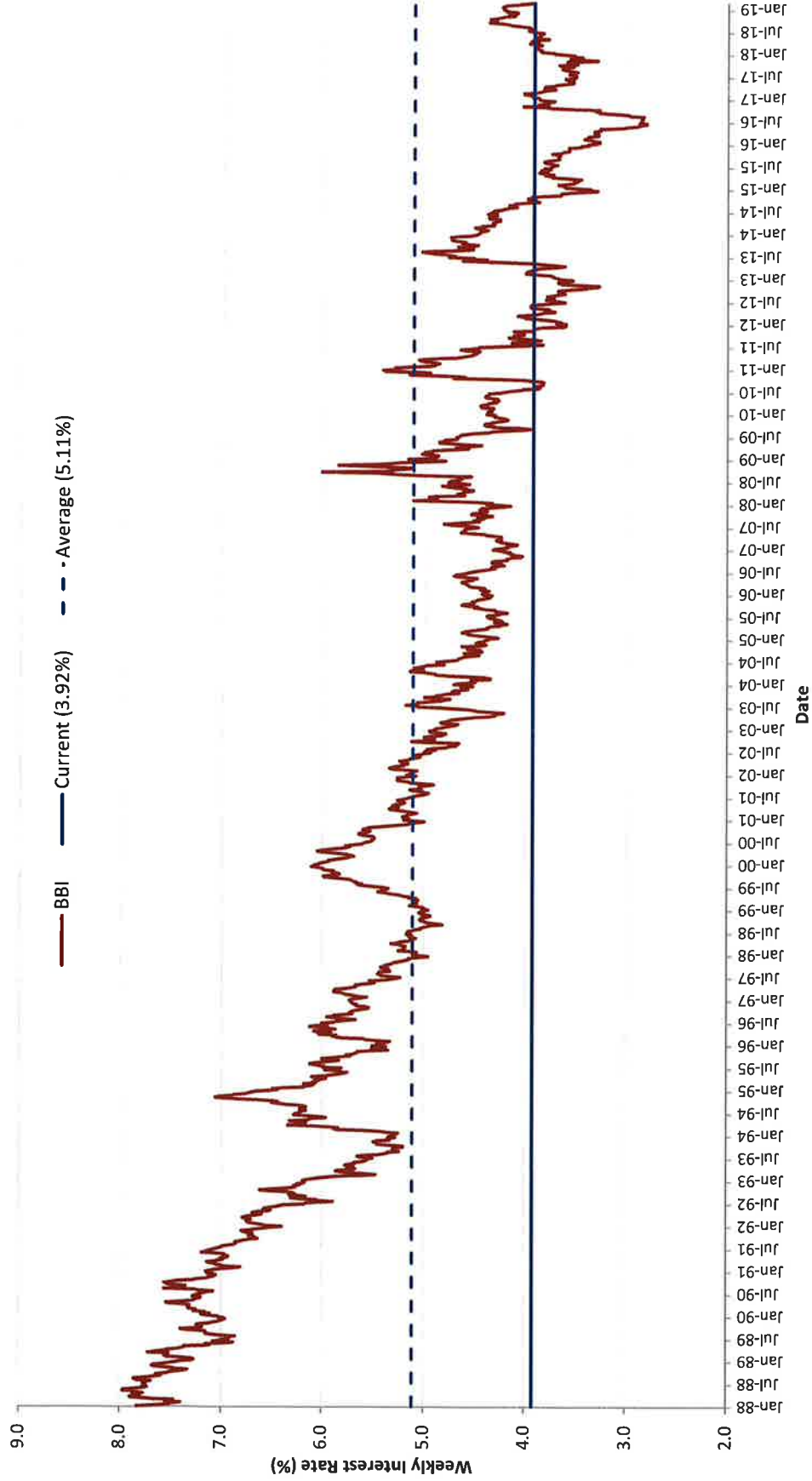
The regular DRC meeting scheduled for April 24th will remain open. After the electronic meeting to be held in early April it will be determined if another meeting for April should be scheduled.

A motion was made and seconded and the meeting was adjourned.

Interest Rate Trends

Bond Buyer Index

January 1988 to March 2019



Since January 1988:

Interest rates have been higher than the current BBI 83.9% of the time.

Interest rates have been lower than the current BBI 16.1% of the time.

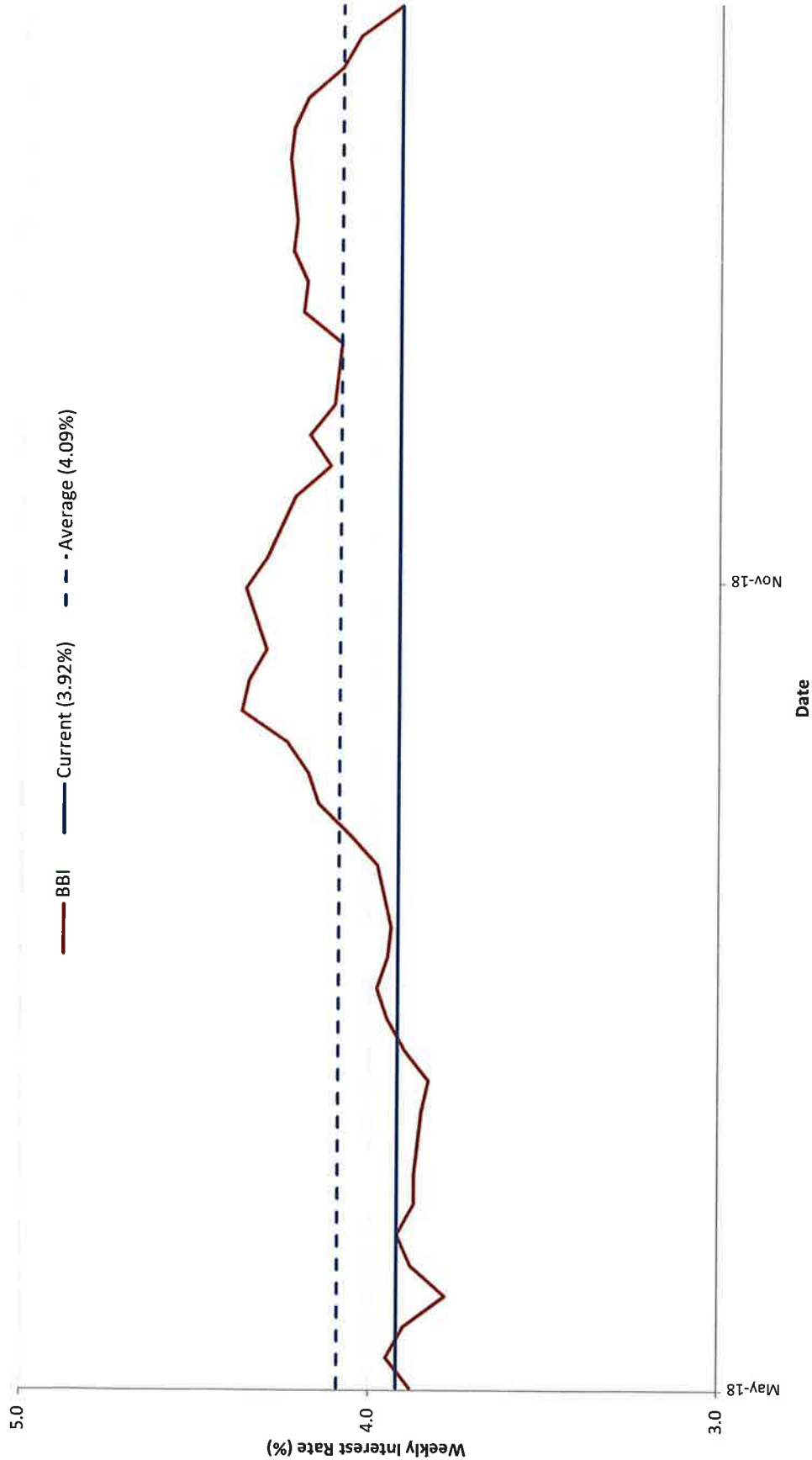


ZIONS PUBLIC FINANCE, INC.

Interest Rate Trends

Bond Buyer Index

May 2018 to March 2019



Since May 2018:

Interest rates have been higher than the current BBI 75.56% of the time.

Interest rates have been lower than the current BBI 24.44% of the time.



ZIONS PUBLIC FINANCE, INC.

Municipal Market Outlook

March 21, 2019

RATE DATA

	Today	Week Prior	Month Prior	Year Prior
MMD AAA GO				
3 Year	1.61	1.59	1.61	1.75
5 Year	1.71	1.68	1.68	2.05
10 Year	2.02	2.05	2.10	2.52
15 Year	2.39	2.43	2.52	2.77
20 Year	2.63	2.70	2.81	2.93
30 Year	2.80	2.87	2.99	3.05
US Treasury				
2 Year	2.47	2.53	2.54	2.31
5 Year	2.34	2.41	2.47	2.69
10 Year	2.44	2.51	2.55	2.89
30 Year	2.79	2.82	2.84	3.12
Federal Funds	2.41	2.40	2.40	1.44
Prime Rate	5.50	5.50	5.50	4.50
SIFMA 7 Day	1.53	1.61	1.75	1.75

BOND BUYER AND SHORT TERM INDEXES

20 Bond GO ¹	3.92	4.04	4.23	3.90
25 Bond REV ²	4.39	4.51	4.70	4.38
Jefferies ST	1.55	1.59	1.75	1.25

¹GO bonds maturing in 20 years, avg. rating equivalent to Moody's Aa2 & S&P's AA

²Revenue bonds maturing in 30 years, avg. rating equivalent to Moody's A1 & S&P A+



ZIONS PUBLIC FINANCE, INC.

ZIONS PUBLIC FINANCE – MMD Muni Bond Yields – 03/26/2019 EOD

General Obligations					"AAA" Coupon Range				
		"AAA"	PRE-RE	INSURED	"AA"	"A"	"BAA"	"LOW"	"HIGH"
1	2020	1.51	1.49	1.66	1.52	1.66	2.01	5.00	5.00
2	2021	1.52	1.50	1.68	1.54	1.72	2.09	5.00	5.00
3	2022	1.53	1.52	1.74	1.56	1.77	2.14	5.00	5.00
4	2023	1.56	1.56	1.82	1.61	1.85	2.21	5.00	5.00
5	2024	1.61	1.62	1.89	1.67	1.93	2.32	5.00	5.00
6	2025	1.66	1.68	1.96	1.74	1.99	2.38	5.00	5.00
7	2026	1.71	1.73	2.02	1.80	2.07	2.45	5.00	5.00
8	2027	1.76	1.78	2.09	1.88	2.14	2.52	5.00	5.00
9	2028	1.82		2.16	1.96	2.21	2.60	5.00	5.00
10	2029	1.90		2.25	2.06	2.28	2.68	5.00	5.00
11	2030	1.99		2.35	2.18	2.38	2.78	5.00	5.00
12	2031	2.09		2.45	2.28	2.49	2.88	5.00	5.00
13	2032	2.16		2.52	2.36	2.57	2.95	5.00	5.00
14	2033	2.22		2.58	2.42	2.63	3.03	5.00	5.00
15	2034	2.26		2.62	2.46	2.69	3.07	5.00	5.00
16	2035	2.31		2.66	2.51	2.75	3.11	5.00	5.00
17	2036	2.36		2.70	2.56	2.80	3.16	5.00	5.00
18	2037	2.41		2.75	2.62	2.86	3.21	5.00	5.00
19	2038	2.45		2.79	2.66	2.90	3.25	5.00	5.00
20	2039	2.49		2.83	2.70	2.94	3.28	5.00	5.00
21	2040	2.52		2.86	2.73	2.96	3.31	5.00	5.00
22	2041	2.55		2.89	2.76	2.99	3.34	5.00	5.00
23	2042	2.57		2.91	2.78	3.01	3.36	5.00	5.00
24	2043	2.59		2.93	2.80	3.03	3.38	5.00	5.00
25	2044	2.60		2.94	2.81	3.04	3.39	5.00	5.00
26	2045	2.61		2.95	2.82	3.05	3.40	5.00	5.00
27	2046	2.62		2.96	2.83	3.06	3.41	5.00	5.00
28	2047	2.63		2.97	2.84	3.07	3.42	5.00	5.00
29	2048	2.64		2.98	2.85	3.08	3.43	5.00	5.00
30	2049	2.65		2.99	2.86	3.09	3.44	5.00	5.00

Interpolated AAA Yields

		10 Mo	11 Mo	12 Mo	13 Mo	14 Mo	15 Mo	16 Mo	17 Mo	18 Mo	19 Mo	20 Mo	21 Mo
	MAT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2020	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.52	1.52	1.52	1.52
2	2021	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.53	1.53	1.53	1.53
3	2022	1.53	1.53	1.53	1.53	1.54	1.54	1.54	1.54	1.55	1.55	1.55	1.55
4	2023	1.56	1.56	1.56	1.56	1.57	1.57	1.57	1.58	1.58	1.58	1.59	1.59
5	2024	1.61	1.61	1.61	1.61	1.62	1.62	1.63	1.63	1.64	1.64	1.65	1.65
6	2025	1.65	1.66	1.66	1.66	1.67	1.67	1.68	1.68	1.69	1.69	1.70	1.70
7	2026	1.70	1.71	1.71	1.71	1.72	1.72	1.73	1.73	1.74	1.74	1.75	1.75
8	2027	1.75	1.76	1.76	1.76	1.77	1.77	1.78	1.78	1.79	1.79	1.80	1.80
9	2028	1.81	1.82	1.82	1.82	1.83	1.83	1.84	1.84	1.85	1.86	1.86	1.87
10	2029	1.89	1.90	1.90	1.90	1.91	1.91	1.92	1.92	1.93	1.94	1.94	1.95
11	2030	1.98	1.99	1.99	1.99	2.00	2.00	2.01	2.01	2.02	2.02	2.03	2.03
12	2031	2.08	2.09	2.09	2.09	2.10	2.10	2.10	2.10	2.11	2.11	2.11	2.11
13	2032	2.16	2.16	2.16	2.16	2.17	2.17	2.17	2.17	2.18	2.18	2.18	2.18

"AAA" Muni Yields as percent of US Treas Yields

01/02/2018 to 03/26/2019

04/11/2018 to 03/26/2019

MUNI/TREAS	CURR %	AVG %	# SD	MAX %	MIN %	AVG %	# SD	MAX %	MIN %
1 yr/1 yr	62.2	63.6	-0.80	68.2	61.6	68.3	-1.07	81.1	60.2
2 yr/2 yr	67.5	65.3	1.07	72.4	61.7	67.4	0.03	76.8	59.7
3 yr/3 yr	70.3	66.9	1.50	74.9	62.6	68.9	0.41	77.0	62.6
5 yr/5 yr	73.8	70.4	1.27	78.9	65.6	73.0	0.24	79.7	65.6
7 yr/7 yr	74.7	73.1	0.71	80.8	68.9	77.0	-0.82	81.9	68.9
10yr/10yr	79.0	80.0	-0.54	86.0	77.2	83.4	-1.80	87.4	77.2
15yr/10yr	94.0	94.6	-0.44	98.6	91.7	93.7	0.16	98.6	89.3
20yr/10yr	103.5	105.3	-1.00	108.7	101.6	101.4	0.67	108.7	94.8
30yr/10yr	110.2	111.5	-0.83	114.6	107.9	106.3	0.98	114.6	98.4
15yr/30yr	78.7	83.4	-1.97	86.9	78.7	87.0	-3.02	91.7	78.7
20yr/30yr	86.8	92.8	-2.20	96.8	86.8	94.2	-3.37	99.0	86.8
30yr/30yr	92.3	98.3	-2.24	102.1	92.3	98.6	-2.93	103.2	92.3

Spot Yield Summary

	1-YR	5-YR	10-YR	15-YR	20-YR	30-YR
"AAA" GO	1.51	1.61	1.90	2.26	2.49	2.65
"AA" GO	1.52	1.67	2.06	2.46	2.70	2.86
"A" GO	1.66	1.93	2.28	2.69	2.94	3.09
"A" Revenue	1.70	2.05	2.50	2.95	3.20	3.35
Insured	1.66	1.89	2.25	2.62	2.83	2.99
PreRefunded	1.49	1.62				
U.S. Treasury	2.43	2.18	2.40	2.63	2.75	2.87
*AAA" GO Grossed up by 37.0%	2.40	2.56	3.02	3.59	3.95	4.21

MIG1		YIELD	CHANGE	T-BILLS	CPN-EQV	CHANGE	AAA PRE-RES	YIELD	CHANGE
	Apr-19	1.53	↘	3mos	2.46	1	Sep-19	1.46	↘
	May-19	1.55	↘	6mos	2.48	1	Mar-20	1.49	↘
	Jun-19	1.57	↘	1yr*	2.43	*	Sep-20	1.50	↘
	Jul-19	1.58	↘				Mar-21	1.50	↘
	Aug-19	1.60	↘	T-NOTES			Sep-21	1.51	↘
	Sep-19	1.62	↘	2yr	2.25	(1)	Mar-22	1.52	↘
	Oct-19	1.64	↘	3yr	2.17	(1)	Sep-22	1.54	↘
	Nov-19	1.66	↘	5yr	2.18	(2)	Mar-23	1.56	↘
	Dec-19	1.68	↘				Sep-23	1.58	↘
	Jan-20	1.70	↘	LIBOR			Mar-24	1.62	↘
	Feb-20	1.70	↘	1mo	2.49	(1)	Sep-24	1.65	↘
	Mar-20	1.70	↘	3mos	2.61	*	Mar-25	1.68	↘
	Apr-20	1.71	↘	6mos	2.67	*	Sep-25	1.71	↘
	May-20	1.71	↘	1yr	2.75	(4)	Mar-26	1.73	↘

VRD Averages

			NON-AMT				AMT		
VRDO Rates			% Total	GM	CAL	NY	GM	CAL	NY
3/26/2019	Tue	Daily	98%	1.30	1.16	1.29	1.36	1.65	1.36
3/25/2019	Mon	Daily	100%	1.27	1.14	1.26	1.33	1.62	1.30
3/22/2019	Fri	Daily	100%	1.27	1.14	1.26	1.33	1.61	1.30
3/21/2019	Thu	Daily	100%	1.26	1.12	1.25	1.31	1.61	1.30
3/20/2019	Wed	Daily	100%	1.26	1.13	1.26	1.32	1.61	1.31
3/19/2019	Tue	Daily	100%	1.31	1.19	1.30	1.37	1.66	1.35
3/18/2019	Mon	Daily	100%	1.36	1.23	1.34	1.43	1.70	1.41
3/26/2019	Tue	Weekly	100%	n/a	n/a	n/a	n/a	n/a	n/a
3/21/2019	Thu	Weekly	100%	1.66	1.58	1.80	1.66	1.54	1.87
3/20/2019	Wed	Weekly	100%	1.61	1.40	1.53	1.65	1.56	1.58
3/19/2019	Tue	Weekly	100%	n/a	n/a	n/a	n/a	n/a	n/a
3/14/2019	Thu	Weekly	100%	1.74	1.65	1.84	1.73	1.62	1.94
3/13/2019	Wed	Weekly	100%	1.69	1.48	1.61	1.72	1.65	1.66

J.P. Morgan Municipal Market Update

A. Recent J.P. Morgan Transactions

ISSUER	AWARD DATE	SIZE (\$MM)	UNDERLYING RATING	FINAL COUPON	FINAL SPREAD	FINAL YIELD	FINAL MTY
Indianapolis Local Public Improvement Bond Bank – Series 2019A (IN)	22-Mar	610.65	Aa1/NR/AAA	5.250%	33	3.130%	2054
Indianapolis Local Public Improvement Bond Bank – Series 2019B (IN)	22-Mar	13.75	Aa1/NR/AAA	3.250%	70	3.330%	2039
Department of Veterans Affairs of the State of California – 2019 Series A	22-Mar	52.66	Aa3/AA/AA-	3.600%	86	3.600%	2043
Department of Veterans Affairs of the State of California – 2019 Series A ¹	22-Mar	25.50	Aa3/AA/AA-	4.000%	73	2.440%	2024
Rhode Island Health and Educational Building Corporation – Series 2019A	21-Mar	41.38	Aa3/AA-/NR	5.000%	30	3.020%	2042
Stanford University – Series 2019 (CA) (Taxable)	21-Mar	121.00	Aaa/AAA/AAA	3.089%	55	3.089%	2029
Stanford University – Series V-1 (CA)	21-Mar	441.80	Aaa/AAA/AAA	5.000%	32	3.120%	2049
CentraCare Health System – Series 2019A (MN)	14-Mar	130.00	A2/NR/AA-	4.000%	90	3.770%	2049
Kansas Turnpike Authority – Series 2019A	13-Mar	62.34	Aa2/AA-/NR	5.000%	15	2.810%	2038
Appalachian Power Company – Series 2019A (Put Bond) (WV) ²	13-Mar	86.00	Baa1/A-/NR	2.550%	88	2.550%	2024

Source: Thomson Reuters and Bloomberg; ¹PAC bond; final maturity indicates estimated average life of 5 years; ²Final maturity indicates mandatory put date

B. Market Commentary

- UST yields declined mid-week on the back of a dovish Fed and fell even further on Friday amid disappointing global manufacturing data, as the 3 month to 10 month portion of the curve inverted for the first time since 2007; ultimately, 2-, 5-, 10-, and 30-year yields decreased by 12, 15, 14, and 13 bps, respectively^{1,2}
 - The Fed was more dovish than consensus expectations, with the majority of FOMC members now expecting zero rate hikes in 2019, down from a median projection of two hikes in December; the median FOMC member continues to expect one hike in 2020¹
 - In line with expectations, the FOMC reported that balance sheet runoff will end in October but added that it will taper down the pace of the runoff of Treasuries starting in May¹
 - Markit's U.S. PMI manufacturing composite index declined from 53.0 to 52.5, the lowest level since June 2017, and the headline index for the services survey, which gauges business activity, slipped from 56.0 to 54.8¹
 - Markit's Germany PMI manufacturing index fell to 44.7, the lowest level since 2012, missing expectations of 48 and sending German 10-year bond yields below zero percent for the first time since 2016³
 - Stocks fell on Friday amid global growth concerns, with the S&P 500 and the Dow Jones Industrial Average experiencing their biggest one-day declines since January 3rd, falling 1.9% and 1.8%, respectively²
- In the municipal market, the MMD curve flattened and yields reached YTD lows, as 2-, 5-, 10-, and 30-year yields decreased by 5, 7, 12, and 18 bps, respectively⁴
 - J.P. Morgan-involved transactions experienced strong demand across the curve and for various coupon structures, with several transactions tightening spreads from initial pricing levels
 - For the period ending March 20th, municipal bond funds saw weekly and monthly inflows of \$1.4bn, marking the 11th consecutive week of inflows^{1,5}
 - YTD inflows for municipal bond funds total \$21.0bn compared to \$47.1bn in taxable fixed income fund flows and \$4.0bn in U.S. and global equity fund flows^{1,5}
 - While YTD inflows into high-yield funds (\$4.4bn) also marked new records for the period, high-yield supply remains low with just \$2.9bn in YTD supply, excluding the COFINA exchange bonds; this YTD total is the second lowest in the past 20 years^{1,5}
- Issuance for the week is expected to be elevated, with \$9.9bn in projected primary market volume, about 170% of the 5 year average for the equivalent week, with the majority (\$6.0bn) selling competitively^{1,2}

¹ J.P. Morgan Research, *US Fixed Income Markets Weekly*, 3/22/2019, jpmm.com

² Bloomberg

³ Bloomberg, *German 10-Year Yields Drop Below Zero for First Time Since 2016*, 3/22/2019, Bloomberg.com

⁴ Thomson Reuters Municipal Market Data

⁵ Lipper, iMoneyNet, as of 3/20/2019

C. Interest Rate Forecast

MMD YIELDS	3/22/2019	2Q19	3Q19	4Q19	1Q20
2-Year	1.53%	1.70%	1.75%	1.75%	1.80%
5-Year	1.63%	1.85%	1.85%	1.90%	1.95%
10-Year	1.92%	2.15%	2.25%	2.35%	2.40%
30-Year	2.67%	2.85%	2.95%	3.05%	3.15%
TAXABLE YIELDS	3/22/2019	2Q19	3Q19	4Q19	1Q20
Fed Funds	2.41%	2.40%	2.40%	2.40%	2.40%
3-Month LIBOR	2.60%	2.60%	2.55%	2.65%	2.55%
2-Year T Note	2.33%	2.55%	2.55%	2.70%	2.80%
5-Year T Note	2.25%	2.50%	2.50%	2.65%	2.75%
10-Year T Note	2.45%	2.70%	2.75%	2.90%	3.00%
30-Year T Bond	2.89%	3.05%	3.10%	3.25%	3.35%

Source: J.P. Morgan Research, *US Fixed Income Markets Weekly*, 3/22/2019, jpmm.com; Thomson Reuters Municipal Market Data, Bloomberg as of 3/22/2019, current rates as of 3/22/2019

D. Market Monitor

SHORT TERM MUNICIPAL MARKET	3/22/2019	1-WEEK Δ	10Y AVERAGE
SIFMA Index	1.53%	-8 bps	0.41%
1-Month LIBOR	2.50%	2 bps	0.57%
SOFR*	2.40%	1 bps	0.76%
SIFMA/1-Month LIBOR Ratio	61.23%	-3.65%	71.30%
Tax-exempt MMF Flows 4-week Avg. ^{1,2}	\$238mm	\$334mm	--
LONG TERM MUNICIPAL MARKET	3/22/2019	1-WEEK Δ	10Y AVERAGE
AAA MMD (30-Year)	2.67%	-18 bps	3.39%
AAA MMD (30 – 2 Year)	1.14%	-13 bps	2.67%
30-Year SIFMA Swap Rate ³	2.18%	-12 bps	2.75%
30-Year 3M LIBOR Swap Rate ³	2.63%	-16 bps	3.10%
All Muni Fund Flows 4-week Avg. ²	\$2,565mm	\$2,576mm	--
CORPORATE SPREADS TO UST (BPS)	3/22/2019	1-WEEK Δ	10Y AVERAGE
J.P. Morgan JULI Index	153	0 bps	175
J.P. Morgan Domestic HY Index	450	6 bps	580
EQUITIES AND ENERGY (\$)	3/22/2019	1-WEEK Δ	YTD Δ
S&P 500	2,801	-0.77%	11.72%
DJIA	25,502	-1.34%	9.32%
NASDAQ 100	7,326	0.26%	15.74%
WTI Crude Oil (per bbl.)	59.04	0.89%	12.50

Source: J.P. Morgan, Bloomberg, Thomson Reuters Municipal Market Data, The Bond Buyer; Lipper FMI, iMoneyNet, *Federal Reserve Bank of New York historical indicative SOFR available starting 8/22/2014

E. Yield Curve Rates and Ratios

BENCHMARK/MATURITY	2-YEAR	5-YEAR	10-YEAR	30-YEAR
MMD	1.53%	1.63%	1.92%	2.67%
UST	2.33%	2.25%	2.45%	2.89%
MMD/UST Ratio	65.72%	72.30%	78.24%	92.45%

Source: J.P. Morgan, Thomson Reuters Municipal Market Data as of 3/22/2019

¹MMF: Money Market Fund, 1-week Δ represents the actual figure reported for the previous week

²Reflects all tax-exempt mutual funds reporting on a weekly or monthly basis, excluding tax-exempt money market funds

³Swap rates are provided for informational purposes only. Please note that J.P. Morgan no longer enters into interest rate derivative transactions with municipal or public entities, and therefore will not serve as swap counterparty to public entities on any new interest rate derivative transactions

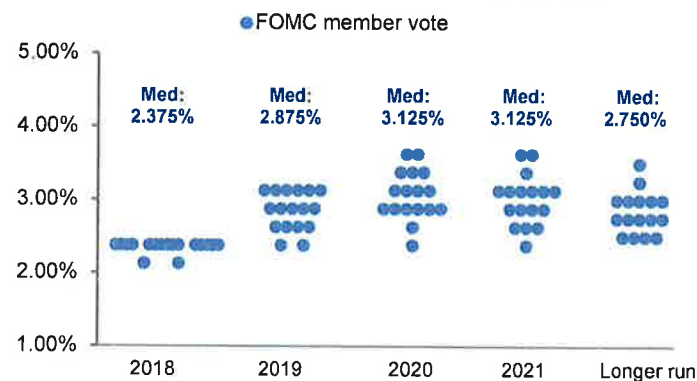
For additional market information and commentary, please go to J.P. Morgan Markets at jpmm.com

J.P.Morgan

F. A decidedly dovish pivot by the FOMC

- 11 out of 17 FOMC members now expect zero hikes in 2019, down from a median projection of two hikes in December, an outcome that was more dovish than consensus estimates, but in line with recent FedSpeak regarding the Fed's ability to be patient¹
 - This shift in near-term rate views is broadly consistent with recent FOMC Statements calling for a neutral bias towards rates, as the FOMC has determined that it will be patient prior to making any future adjustments; the median Committee participant expects one hike in 2020 and the median longer-run terminal rate is unchanged at 2.75%⁹
 - Many market participants now see Fed policy as remaining modestly stimulative over the next three years, in contrast with December's outlook where participants foresaw restrictive policy in both 2020 and 2021¹
 - With inflation still running below target, J.P. Morgan Research believes that the Fed may seek to foster a period of inflation modestly above 2% to focus on "upholding the credibility" of its inflation target mandate¹
 - In line with the FOMC median outlook, J.P. Morgan Research continues to expect zero hikes this year and one hike next year²
- The Fed announced plans for balance sheet runoff which were more accommodative than anticipated; the FOMC will reduce the cap on Treasury runoff from the SOMA portfolio from \$30 billion per month down to \$15 billion in May, with a conclusion of balance sheet runoff expected in October¹
- On Wednesday, Treasuries rallied and stocks closed mostly lower as markets adjusted to a more dovish than expected outlook from the Fed³
 - In contrast with the outlook of both the median FOMC member and J.P. Morgan Research, OIS markets now imply that the Fed is "on pause" over the next four quarters, with the probability of rate cuts outweighing rate hikes, as the market prices in broad concerns over global growth²

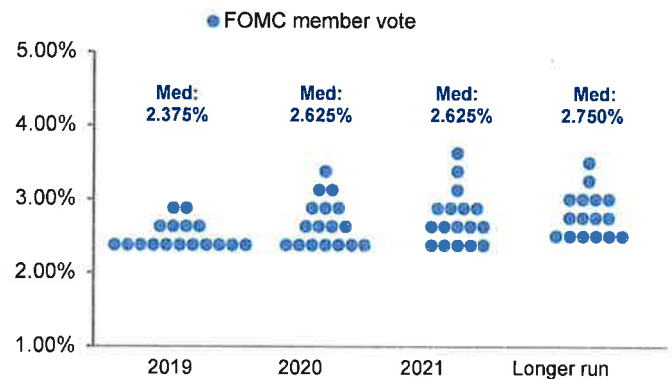
December FOMC year-end Fed Funds projection



Source: Federal Reserve Board, 12/19/2018, www.federalreserve.gov

*One participant did not submit a longer run projection

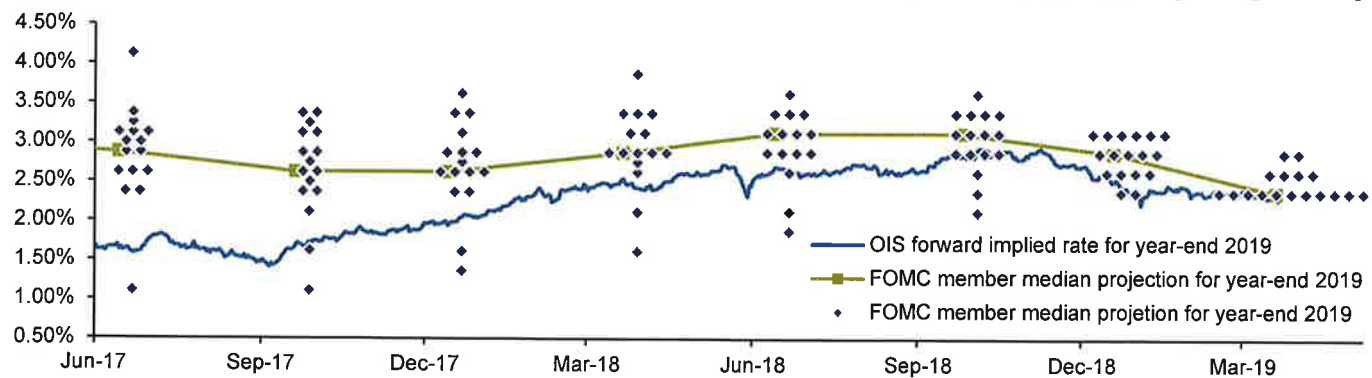
March FOMC year-end Fed Funds projection



Source: Federal Reserve Board, 3/20/2019, www.federalreserve.gov

*One participant did not submit a longer run projection

Generally, market expectations and FOMC forecasts eventually converge, with both adapting along the way



Source: J.P. Morgan Research, *US Fixed Income Markets Weekly*, 3/22/2019, jpmm.com

¹ J.P. Morgan Research, *A dovish jailbreak in the FOMC dots*, 3/20/2019, jpmm.com

² J.P. Morgan Research, *US Fixed Income Markets Weekly*, 3/22/2019, jpmm.com

³ Bloomberg

Current Negotiated Forward Visible Supply - Week of March 25th

Notable Negotiated Municipal Transactions					
Sale Date	State	Par Amount (\$000s)	Issuer	Expected Ratings	Industry
3/25/2019	TX	54,000	Potter County	-/-	LEASE
3/25/2019	CA	27,075	City of Sacramento	-/AA/AA	REV
3/26/2019	NY	850,000	New York City Transitional Finance Auth	Aa1/AAA/AAA	REV
3/26/2019	CT	158,160	Bradley International Airport	-/A-/BBB	TRANS
3/26/2019	NE	147,915	Nebraska Investment Finance Authority	-/AA+/-	HSG
3/26/2019	AZ	63,470	Arizona Transportation Board	Aa2/AA+/AA	TRANS
3/26/2019	CA	55,000	Solana Beach School District	Aaa/AAA/-	GO
3/26/2019	AZ	42,600	Vail Unified School District No. 20	-/A/-	GO
3/26/2019	CA	15,000	Middletown Unified School District	-/-	GO
3/26/2019	PA	14,415	Unionville-Chadds Ford Pennsylvania School Dist.	Aa1/-/-	GO
3/27/2019	CT	850,000	State of Connecticut	A1/A/A+	GO
3/27/2019	IL	721,870	City of Chicago	-/-	GO
3/27/2019	OR	159,510	State of Oregon (Lottery Bonds)	Aa2/AAA/-	REV
3/27/2019	CA	150,000	West Valley-Mission Community College District	Aaa/AAA/-	HE
3/27/2019	GA	96,935	Georgia Tech	Aa3/AA-/-	HE
3/27/2019	NY	65,590	City of Syracuse Industrial Development Agy	Aa2/AA/-	REV
3/27/2019	FL	45,215	Sarasota County	-/AA+/AA+	REV
3/27/2019	KS	44,000	USD 202 Wyandotte County	-/A+/-	GO
3/27/2019	UT	18,000	Municipal Building Auth of Salt Lake County	-/AA+/AA+	LEASE
3/27/2019	FL	15,000	Escambia County Housing Finance Authority	Aaa/-/-	HSG
3/27/2019	WI	14,310	County of Shawano	Aa2/-/-	GO
3/27/2019	GA	12,740	URA of the City of Cornelia	Baa2/-/-	REV
3/28/2019	TX	224,000	Pflugerville Independent School District	Aaa/AAA/-	GO
3/28/2019	MA	215,000	University of Massachusetts Building Authority	Aa2/AA-/AA	HE
3/28/2019	NC	117,190	North Carolina Housing Finance Agency	Aa1/AA+/-	HSG
3/28/2019	IN	90,735	IPS Multi-School Building Corp	-/AA+/-	REV
3/28/2019	CA	39,000	Ohlone CCD	-/-	GO
3/28/2019	TX	12,925	City of Taylor	-/AA/-	LEASE
Week of 3/25 Est. Total		\$	4,319,655		

Total visible supply for the week of March 25th (competitive and negotiated) is expected to be approximately \$8.5 - \$9.5 billion

Sources: IPREO, as of March 22, 2019

Salt Lake County, UT

7

Wells Fargo Securities



< | \$17,860,000 Municipal Building Authority of Salt Lake County, Utah Lease Revenue Bonds, Series 2019

jonzionbank@i-Deal.com

Series 1

Stock

Overview Retail Managers Investors

Retail 0% Institutional 99% Stock <1% Show All

Managers/Accounts

1.0x



1: 01/15/2037, 5.000%

Series	Par (\$M)	Ord #	Manager	Series	Maturity	Type	Priority	Account	Amount (\$M)
1	1,130	30	Wells Fargo Sec	1	01/15/37	Institutional	MEM	Allstate Insurance C...	1,130
Orders (\$M)	Subscription								
1,130	1.0x								
Coupon	Yield/Price								
5.000%	2.640%								
Call Feature									
Optional call in 01/15/2028 @ 100.00									
Insurance									
none									

S&P 500 ETF (SPY): 278.83...

US 10Y: 2.363 (-0.053)

No MMD Reads Available

10:30 AM ET EIA Petroleum Status Report

Account	Retail	Institutional	Total	Money Type
Breckinridge Capital Advisors, Inc.	0	4,340	4,340	SMA
Chilton Investment Company, Inc.	0	2,285	2,285	SMA
Bessemer Investment Management LLC	0	7,085	7,085	SMA
Allstate Insurance Company	0	10,245	10,245	Insurance
Nuveen Asset Management	0	500	500	SMA
Southern Farm Bureau Life Insurance Co.	0	2,560	2,560	Insurance
Stock	0	<u>0</u>	<u>100</u>	Stock
7 Accounts	0	27,015	27,115	

MBA of Salt Lake County
Lease Revenue Bonds, Series 2019 Comparables

Pricing Date: 3/27/2019 Par Amount: \$17,860,000 Issuer: MBA of Salt Lake County, UT Issue: Lease Revenue Bonds, Series 2019 Insurance:		2/26/2019 \$26,785,000 Palo Alto, CA CTFS PARTN Lease -Rent				
Dated Date: 4/11/2019 Underlying Rating: AA+ Optional Call: 1/15/2028 Sale Type: Negotiated Underwriter: Wells Fargo Maturity Date: 1/15/2041		3/21/2019 Aa+ S&P 2/1/2029 Negotiate Stifel, Nicolaus 11/1/2044				
Maturity	Par (000s)	Coupon	Yield YTW/YTM	EOD 2/26/2019 MMD JAN	Spread to MMD YTW/YTM	
2019						
2020						
2021						
2022	530	5,000	1.63	1.53	0.10	
2023	560	5,000	1.67	1.56	0.11	
2024	585	5,000	1.74	1.61	0.13	
2025	610	5,000	1.79	1.65	0.14	
2026	655	5,000	1.85	1.70	0.15	
2027	685	5,000	1.91	1.75	0.16	
2028	715	5,000	1.98	1.81	0.17	
2029	760	5,000	2.07 / 2.31	1.89	0.18 / 0.42	
2030	795	5,000	2.18 / 2.60	1.98	0.20 / 0.62	
2031	840	5,000	2.29 / 2.85	2.08	0.21 / 0.77	
2032	880	5,000	2.38 / 3.04	2.16	0.22 / 0.88	
2033	925	5,000	2.45 / 3.19	2.22	0.23 / 0.97	
2034	975	5,000	2.49 / 3.31	2.26	0.23 / 1.05	
2035	1,025	5,000	2.54 / 3.41	2.31	0.23 / 1.10	
2036	1,075	5,000	2.59 / 3.51	2.36	0.23 / 1.15	
2037	1,130	5,000	2.64 / 3.59	2.41	0.23 / 1.18	
2038	1,185.00	5,000	2.68 / 3.66	2.45	0.23 / 1.21	
2039	1,245.00	5,000	2.72 / 3.73	2.49	0.23 / 1.24	
2040	1,315	5,000	2.75 / 3.78	2.52	0.23 / 1.26	
2041	1,370.00	5,000	2.78 / 3.83	2.55	0.23 / 1.28	
2042						
2043						
2044						
2045						
2046						
2047						
2048						
2049						
2050						
2051						
2052						
2053						
17,860		8,710		5,000		3.16 / 4.03
		2.9		0.26 / 1.13		
26,785						

MBA of Salt Lake County
Lease Revenue Bonds, Series 2019 Comparables

Pricing Date: Par Amount: Issuer:	3/27/2019 \$17,860,000 MBA of Salt Lake County, UT	3/5/2019 \$11,155,000 MBA of West Valley City, UT									
Issue	Lease Revenue Bonds, Series 2019	Lease Revenue Bonds, Series 2019									
Insurance		Assured Guaranty Municipal Corp									
Dated Date: Underlying Rating: Optional Call: Sale Type: Underwriter: Maturity Date:	4/11/2019 AA+ 1/15/2028 Negotiated Wells Fargo 1/15/2041	3/19/2019 -/A+/- (Insured AA) 2/1/2029 Negotiated Keybank Capital Markets 2/1/2044									
Maturity	Par (000s)	Coupon	Yield YTW/YTM	EOD 3/26/2019 MMD JAN	Spread to MMD YTW/YTM	Par (000s)	Coupon	Yield YTW/YTM	EOD 3/5/2019 MMD March	Spread to MMD YTW/YTM	Deal vs. Comp Spread
2019						285	5,000	1.77	1.57	0.20	
2020						230	5,000	1.83	1.58	0.25	
2021						245	5,000	1.89	1.59	0.30	(0.20)
2022	530	5.000	1.63	1.53	0.10	255	5,000	1.95	1.62	0.33	(0.22)
2023	560	5,000	1.67	1.56	0.11	300	5,000	2.03	1.68	0.35	(0.22)
2024	585	5,000	1.74	1.61	0.13	315	5,000	2.14	1.77	0.37	(0.23)
2025	610	5,000	1.79	1.65	0.14	330	5,000	2.23	1.83	0.40	(0.25)
2026	655	5,000	1.85	1.70	0.15	350	5,000	2.33	1.92	0.41	(0.25)
2027	685	5,000	1.91	1.75	0.16	365	5,000	2.45	2.02	0.43	(0.26)
2028	715	5,000	1.98	1.81	0.17	385	5,000	2.58	2.13	0.45	(0.27)
2029	760	5,000	2.07 / 2.31	1.89	0.18 / 0.42	820	3,000	3.12	2.34	0.78	(0.57) / (0.01)
2030	795	5,000	2.18 / 2.60	1.98	0.20 / 0.62						
2031	840	5,000	2.28 / 2.85	2.08	0.21 / 0.77						
2032	880	5,000	2.38 / 3.04	2.16	0.22 / 0.88						
2033	925	5,000	2.45 / 3.19	2.22	0.23 / 0.97						
2034	975	5,000	2.49 / 3.31	2.26	0.23 / 1.05	1,350	5,000	3.03 / 3.55	2.53	0.50 / 1.02	(0.27) / 0.03
2035	1,025	5,000	2.54 / 3.41	2.31	0.23 / 1.10						
2036	1,075	5,000	2.59 / 3.51	2.36	0.23 / 1.15						
2037	1,130	5,000	2.64 / 3.59	2.41	0.23 / 1.18						
2038	1,185.00	5.00	2.68 / 3.66	2.45	0.23 / 1.21						
2039	1,245.00	5.00	2.72 / 3.73	2.49	0.23 / 1.24	2,660	3,625	3.70	2.83	0.87	(0.64) / 0.37
2040	1,315	5.00	2.75 / 3.78	2.52	0.23 / 1.26						
2041	1,370.00	5.00	2.78 / 3.83	2.55	0.23 / 1.28						
2042											
2043											
2044						3,265	5,000	3.47 / 4.17	2.95	0.52 / 1.22	
2045											
2046											
2047											
2048											
2049											
2050											
2051											
2052											
2053											
	17,860					11,155					

MBA of Salt Lake County
Lease Revenue Bonds, Series 2019 Comparables

Pricing Date: Par Amount: Issuer: Issue: Insurance:	3/27/2019 \$17,860,000 MBA of Salt Lake County, UT Lease Revenue Bonds, Series 2019	1/16/2019 \$29,030,000 Jordan Valley WTR Conserv District Revenue Bonds, Series 2019
Dated Date: Underlying Rating: Optional Call: Sale Type: Underwriter Maturity Date:	4/11/2019 AA+ 1/15/2028 Negotiated Wells Fargo 1/15/2041	2/14/2019 AA+ 10/1/2028 Negotiated George K. Baum 10/1/2049
Maturity	Par (000s) Coupon Yield YTW/YTM EOD 3/26/2019 MMD JAN Spread to MMD YTW/YTM	Par (000s) Coupon Yield YTW/YTM EOD 1/16/2019 MMD Oct Spread to MMD YTW/YTM Deal vs. Comp Spread
2019		
2020		
2021		
2022		
2023	530	440
2024	560	460
2025	585	480
2026	610	505
2027	655	530
2028	685	555
2029	715	575
2030	760	605
2031	795	635
2032	840	670
2033	880	705
2034	925	740
2035	975	775
2036	1,025	815
2037	1,075	860
2038	1,130	905
2039	1,185.00	950
2040	1,245.00	1,000
2041	1,315	1,050
2042	1,370.00	1,105
2043		
2044		
2045		
2046		
2047		
2048		
2049		
2050		
2051		
2052		
2053		
	17,860	29,030

**MBA of Salt Lake County
Lease Revenue Bonds, Series 2019 Comparables**

Pricing Date: 3/27/2019 Par Amount: \$17,860,000 Issuer: MBA of Salt Lake County, UT Issue: Lease Revenue Bonds, Series 2019 Insurance:						12/7/2013 \$30,755,000 South Dakota ST Bldg Auth Rev Lease-Rent					
Underlying Rating: 4/11/2019 Optional Call: AA+ Sale Type: 1/15/2028 Underwriter: Negotiated Maturity Date: Wells Fargo 1/15/2041						12/27/2018 Aa1/AA+ 6/1/2028 Negotiated Piper Jaffray 6/1/2040					
Maturity	Par (000s)	Coupon	Yield YTW/YTM	EOD 3/26/2019 MMD JAN	Spread to MMD YTW/YTM	Par (000s)	Coupon	Yield YTW/YTM	EOD 12/7/2018 MMD Jun	Spread to MMD YTW/YTM	Deal vs. Comp Spread
2019						1,720	3,000	1.86	1.72	0.14	
2020						895	4,000	1.97	1.80	0.17	
2021						935	4,000	2.05	1.85	0.20	
2022	530	5,000	1.63	1.53	0.10	970	4,000	2.11	1.91	0.20	(0.10)
2023	560	5,000	1.67	1.56	0.11	1,010	4,000	2.21	1.98	0.23	(0.12)
2024	585	5,000	1.74	1.61	0.13	1,050	4,000	2.28	2.05	0.23	(0.10)
2025	610	5,000	1.79	1.65	0.14	1,100	5,000	2.37	2.12	0.25	(0.11)
2026	655	5,000	1.85	1.70	0.15	1,160	5,000	2.48	2.21	0.27	(0.12)
2027	685	5,000	1.91	1.75	0.16	1,215	5,000	2.57	2.29	0.28	(0.12)
2028	715	5,000	1.98	1.81	0.17	1,275	5,000	2.67	2.36	0.31	(0.14)
2029	760	5,000	2.07 / 2.31	1.89	0.18 / 0.42	1,340	5,000	2.78 / 2.95	2.43	0.35 / 0.52	(0.17) / (0.10)
2030	795	5,000	2.18 / 2.60	1.98	0.20 / 0.62	1,405	5,000	2.86 / 3.16	2.49	0.37 / 0.67	(0.17) / (0.04)
2031	840	5,000	2.29 / 2.85	2.08	0.21 / 0.77	1,475	5,000	2.95 / 3.34	2.55	0.40 / 0.79	(0.19) / (0.02)
2032	880	5,000	2.38 / 3.04	2.16	0.22 / 0.88	1,550	5,000	3.00 / 3.47	2.60	0.40 / 0.87	(0.18) / 0.01
2033	925	5,000	2.45 / 3.19	2.22	0.23 / 0.97	1,625	5,000	3.06 / 3.59	2.66	0.40 / 0.93	(0.17) / 0.04
2034	975	5,000	2.49 / 3.31	2.26	0.23 / 1.05	1,710	5,000	3.12 / 3.69	2.72	0.40 / 0.97	(0.17) / 0.07
2035	1,025	5,000	2.54 / 3.41	2.31	0.23 / 1.10	1,795	5,000	3.18 / 3.79	2.78	0.40 / 1.01	(0.17) / 0.10
2036	1,075	5,000	2.59 / 3.51	2.36	0.23 / 1.15	1,865	5,000	3.23 / 3.87	2.83	0.40 / 1.04	(0.17) / 0.11
2037	1,130	5,000	2.64 / 3.59	2.41	0.23 / 1.18	1,980	5,000	3.28 / 3.94	2.88	0.40 / 1.06	(0.17) / 0.13
2038	1,185.00	5,000	2.68 / 3.66	2.45	0.23 / 1.21	2,075	5,000	3.32 / 3.99	2.93	0.39 / 1.06	(0.16) / 0.15
2039	1,245.00	5,000	2.72 / 3.73	2.49	0.23 / 1.24	2,015	5,000	3.35 / 4.04	2.96	0.39 / 1.08	(0.16) / 0.16
2040	1,315	5,000	2.75 / 3.78	2.52	0.23 / 1.26	570	5,000	3.38 / 4.08	2.99	0.39 / 1.09	(0.16) / 0.17
2041	1,370.00	5,000	2.78 / 3.83	2.55	0.23 / 1.28						
2042											
2043											
2044											
2045											
2046											
2047											
2048											
2049											
2050											
2051											
2052											
2053											
	17,860					30,755					



MBA of Salt Lake County

Pricing Date: Par Amount: Issuer: Issue: Insurance:		3/27/2019 \$17,860,000 MBA of Salt Lake County, UT Lease Revenue Bonds, Series 2019		3/5/2019 \$23,865,000 Fort Collins, CO CTFES PARTN Lease-Rent			
Dated Date: Underlying Rating: Optional Call: Sale Type: Underwriter Maturity Date:		4/11/2019 AA+ 1/15/2028 Negotiated Wells Fargo 1/15/2041		3/21/2019 Aa1 12/1/2028 Competitive Robert W. Baird 12/1/2038			
Maturity		Par (000s)	Coupon	Yield YTW/YTM	EOD 3/26/2019 MMD JAN	Spread to MMD YTW/YTM	
2019							
2020							
2021							
2022		530	5.000	1.63	1.53	0.10	
2023		560	5.000	1.67	1.56	0.11	
2024		585	5.000	1.74	1.61	0.13	
2025		610	5.000	1.79	1.65	0.14	
2026		655	5.000	1.85	1.70	0.15	
2027		685	5.000	1.91	1.75	0.16	
2028		715	5.000	1.98	1.81	0.17	
2029		760	5.000	2.07 / 2.31	1.89	0.18 / 0.42	
2030		795	5.000	2.18 / 2.60	1.98	0.20 / 0.62	
2031		840	5.000	2.29 / 2.85	2.08	0.21 / 0.77	
2032		880	5.000	2.38 / 3.04	2.16	0.22 / 0.88	
2033		925	5.000	2.45 / 3.19	2.22	0.23 / 0.97	
2034		975	5.000	2.49 / 3.31	2.26	0.23 / 1.05	
2035		1,025	5.000	2.54 / 3.41	2.31	0.23 / 1.10	
2036		1,075	5.000	2.59 / 3.51	2.36	0.23 / 1.15	
2037		1,130	5.000	2.64 / 3.59	2.41	0.23 / 1.18	
2038		1,185.00	5.000	2.68 / 3.66	2.45	0.23 / 1.21	
2039		1,245.00	5.000	2.72 / 3.73	2.49	0.23 / 1.24	
2040		1,315	5.000	2.75 / 3.78	2.52	0.23 / 1.26	
2041		1,370.00	5.000	2.78 / 3.83	2.55	0.23 / 1.28	
2042							
2043							
2044							
2045							
2046							
2047							
2048							
2049							
2050							
2051							
2052							
2053							
17,860						23,865	

**MBA of Salt Lake County
Lease Revenue Bonds, Series 2019 Comparables**

Pricing Date: Per Amount: Issuer:		3/27/2019 \$17,860,000 MBA of Salt Lake County, UT Lease Revenue Bonds, Series 2019				2/12/2019 \$23,575,000 Utah Water Finance Agency Revenue Bonds, Series 2019					
Insurance:											
Dated Date: Underlying Rating: Optional Call: Sale Type: Underwriter: Maturity Date:		4/11/2019 AA+ 1/15/2028 Negotiated Wells Fargo 1/15/2041				3/1/2019 AA 3/1/2029 Negotiated George K. Baum 3/1/2035					
Maturity	Par (000s)	Coupon	Yield YTW/YTM	EOD 3/26/2019 MMD JAN	Spread to MMD YTW/YTM	Par (000s)	Coupon	Yield YTW/YTM	EOD 2/12/2019 MMD	Spread to MMD YTW/YTM	Deal vs Comp Spread
2019											
2020											
2021											
2022	530	5.000	1.63	1.53	0.10	1,080	5.000	1.62	1.61	0.01	
2023	560	5.000	1.67	1.56	0.11	1,135	5.000	1.66	1.63	0.03	0.07
2024	585	5.000	1.74	1.61	0.13	1,200	5.000	1.69	1.66	0.03	0.08
2025	610	5.000	1.79	1.65	0.14	1,255	5.000	1.75	1.7	0.05	0.08
2026	655	5.000	1.85	1.70	0.15	1,320	5.000	1.86	1.76	0.10	0.04
2027	685	5.000	1.91	1.75	0.16	1,390	5.000	1.98	1.84	0.14	0.01
2028	715	5.000	1.98	1.81	0.17	1,460	5.000	2.06	1.93	0.13	0.03
2029	760	5.000	2.07 / 2.31	1.89	0.18 / 0.42	1,535	5.000	2.20	2.02	0.18	(0.01)
2030	795	5.000	2.18 / 2.60	1.98	0.20 / 0.62	1,615	5.000	2.31	2.12	0.19	(0.01)
2031	840	5.000	2.29 / 2.85	2.08	0.21 / 0.77	1,700	5.000	2.45 / 2.63	2.23	0.22 / 0.40	(0.02) / 0.22
2032	880	5.000	2.38 / 3.04	2.16	0.22 / 0.88	1,785	5.000	2.57 / 2.89	2.34	0.23 / 0.55	(0.02) / 0.22
2033	925	5.000	2.45 / 3.19	2.22	0.23 / 0.97	1,875	5.000	2.63 / 3.06	2.42	0.21 / 0.64	0.01 / 0.24
2034	975	5.000	2.49 / 3.31	2.26	0.23 / 1.05	1,975	5.000	2.71 / 3.22	2.49	0.22 / 0.73	0.01 / 0.24
2035	1,025	5.000	2.54 / 3.41	2.31	0.23 / 1.10	2,075	5.000	2.77 / 3.35	2.54	0.23 / 0.81	0.00 / 0.24
2036	1,075	5.000	2.59 / 3.51	2.36	0.23 / 1.15	2,175	5.000	2.85 / 3.48	2.6	0.25 / 0.88	(0.02) / 0.23
2037	1,130	5.000	2.64 / 3.59	2.41	0.23 / 1.18						
2038	1,185.00	5.00	2.68 / 3.66	2.45	0.23 / 1.21						
2039	1,245.00	5.00	2.72 / 3.73	2.49	0.23 / 1.24						
2040	1,315	5.00	2.75 / 3.78	2.52	0.23 / 1.26						
2041	1,370.00	5.00	2.78 / 3.83	2.55	0.23 / 1.28						
2042											
2043											
2044											
2045											
2046											
2047											
2048											
2049											
2050											
2051											
2052											
2053											
	17,860					23,575					

Municipal Building Authority of Salt Lake County, Utah

\$17,840,000 Lease Revenue Bonds

Series 2019

(Final Numbers)

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Municipal Building Authority of Salt Lake County, Utah

\$17,840,000 Lease Revenue Bonds

Series 2019

(Final Numbers)

Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+I	Fiscal Total
04/11/2019	-	-	-	-	-
07/15/2019	-	-	232,911.11	232,911.11	232,911.11
01/15/2020	-	-	446,000.00	446,000.00	-
07/15/2020	-	-	446,000.00	446,000.00	892,000.00
01/15/2021	-	-	446,000.00	446,000.00	-
07/15/2021	-	-	446,000.00	446,000.00	892,000.00
01/15/2022	530,000.00	5.000%	446,000.00	976,000.00	-
07/15/2022	-	-	432,750.00	432,750.00	1,408,750.00
01/15/2023	560,000.00	5.000%	432,750.00	992,750.00	-
07/15/2023	-	-	418,750.00	418,750.00	1,411,500.00
01/15/2024	585,000.00	5.000%	418,750.00	1,003,750.00	-
07/15/2024	-	-	404,125.00	404,125.00	1,407,875.00
01/15/2025	610,000.00	5.000%	404,125.00	1,014,125.00	-
07/15/2025	-	-	388,875.00	388,875.00	1,403,000.00
01/15/2026	655,000.00	5.000%	388,875.00	1,043,875.00	-
07/15/2026	-	-	372,500.00	372,500.00	1,416,375.00
01/15/2027	685,000.00	5.000%	372,500.00	1,057,500.00	-
07/15/2027	-	-	355,375.00	355,375.00	1,412,875.00
01/15/2028	715,000.00	5.000%	355,375.00	1,070,375.00	-
07/15/2028	-	-	337,500.00	337,500.00	1,407,875.00
01/15/2029	760,000.00	5.000%	337,500.00	1,097,500.00	-
07/15/2029	-	-	318,500.00	318,500.00	1,416,000.00
01/15/2030	795,000.00	5.000%	318,500.00	1,113,500.00	-
07/15/2030	-	-	298,625.00	298,625.00	1,412,125.00
01/15/2031	840,000.00	5.000%	298,625.00	1,138,625.00	-
07/15/2031	-	-	277,625.00	277,625.00	1,416,250.00
01/15/2032	880,000.00	5.000%	277,625.00	1,157,625.00	-
07/15/2032	-	-	255,625.00	255,625.00	1,413,250.00
01/15/2033	925,000.00	5.000%	255,625.00	1,180,625.00	-
07/15/2033	-	-	232,500.00	232,500.00	1,413,125.00
01/15/2034	970,000.00	5.000%	232,500.00	1,202,500.00	-
07/15/2034	-	-	208,250.00	208,250.00	1,410,750.00
01/15/2035	1,020,000.00	5.000%	208,250.00	1,228,250.00	-
07/15/2035	-	-	182,750.00	182,750.00	1,411,000.00
01/15/2036	1,075,000.00	5.000%	182,750.00	1,257,750.00	-
07/15/2036	-	-	155,875.00	155,875.00	1,413,625.00
01/15/2037	1,130,000.00	5.000%	155,875.00	1,285,875.00	-
07/15/2037	-	-	127,625.00	127,625.00	1,413,500.00
01/15/2038	1,180,000.00	5.000%	127,625.00	1,307,625.00	-
07/15/2038	-	-	98,125.00	98,125.00	1,405,750.00
01/15/2039	1,245,000.00	5.000%	98,125.00	1,343,125.00	-
07/15/2039	-	-	67,000.00	67,000.00	1,410,125.00
01/15/2040	1,310,000.00	5.000%	67,000.00	1,377,000.00	-
07/15/2040	-	-	34,250.00	34,250.00	1,411,250.00
01/15/2041	1,370,000.00	5.000%	34,250.00	1,404,250.00	-
07/15/2041	-	-	-	-	1,404,250.00
Total	\$17,840,000.00	-	\$12,396,161.11	\$30,236,161.11	-

Yield Statistics

Bond Year Dollars	\$247,923.22
Average Life	13.897 Years
Average Coupon	5.00000000%
Net Interest Cost (NIC)	3.6650066%
True Interest Cost (TIC)	3.2761540%
Bond Yield for Arbitrage Purposes	2.4102102%
All Inclusive Cost (AIC)	3.3599453%

IRS Form 8038

Net Interest Cost	3.0648997%
Weighted Average Maturity	13.900 Years

Municipal Building Authority of Salt Lake County, Utah

\$17,840,000 Lease Revenue Bonds

Series 2019

(Final Numbers)

Pricing Summary

Maturity	Type of Bond	Coupon	Yield	Maturity Value	Price	YTM	Call Date	Call Price	Dollar Price
01/15/2022	Serial Coupon	5.000%	1.610%	530,000.00	109.116%	-	-	-	578,314.80
01/15/2023	Serial Coupon	5.000%	1.640%	560,000.00	112.204%	-	-	-	628,342.40
01/15/2024	Serial Coupon	5.000%	1.710%	585,000.00	114.979%	-	-	-	672,627.15
01/15/2025	Serial Coupon	5.000%	1.760%	610,000.00	117.674%	-	-	-	717,811.40
01/15/2026	Serial Coupon	5.000%	1.830%	655,000.00	120.070%	-	-	-	786,458.50
01/15/2027	Serial Coupon	5.000%	1.890%	685,000.00	122.349%	-	-	-	838,090.65
01/15/2028	Serial Coupon	5.000%	1.960%	715,000.00	124.360%	-	-	-	889,174.00
01/15/2029	Serial Coupon	5.000%	2.070%	760,000.00	123.363% c	2.312%	01/15/2028	100.000%	937,558.80
01/15/2030	Serial Coupon	5.000%	2.180%	795,000.00	122.376% c	2.602%	01/15/2028	100.000%	972,889.20
01/15/2031	Serial Coupon	5.000%	2.290%	840,000.00	121.398% c	2.846%	01/15/2028	100.000%	1,019,743.20
01/15/2032	Serial Coupon	5.000%	2.380%	880,000.00	120.605% c	3.039%	01/15/2028	100.000%	1,061,324.00
01/15/2033	Serial Coupon	5.000%	2.450%	925,000.00	119.992% c	3.193%	01/15/2028	100.000%	1,109,926.00
01/15/2034	Serial Coupon	5.000%	2.490%	970,000.00	119.643% c	3.307%	01/15/2028	100.000%	1,160,537.10
01/15/2035	Serial Coupon	5.000%	2.540%	1,020,000.00	119.210% c	3.413%	01/15/2028	100.000%	1,215,942.00
01/15/2036	Serial Coupon	5.000%	2.590%	1,075,000.00	118.777% c	3.508%	01/15/2028	100.000%	1,276,852.75
01/15/2037	Serial Coupon	5.000%	2.640%	1,130,000.00	118.347% c	3.593%	01/15/2028	100.000%	1,337,321.10
01/15/2038	Serial Coupon	5.000%	2.680%	1,180,000.00	118.004% c	3.664%	01/15/2028	100.000%	1,392,447.20
01/15/2039	Serial Coupon	5.000%	2.720%	1,245,000.00	117.663% c	3.728%	01/15/2028	100.000%	1,464,904.35
01/15/2040	Serial Coupon	5.000%	2.750%	1,310,000.00	117.407% c	3.782%	01/15/2028	100.000%	1,538,031.70
01/15/2041	Serial Coupon	5.000%	2.780%	1,370,000.00	117.152% c	3.831%	01/15/2028	100.000%	1,604,982.40
Total	-	-	-	\$17,840,000.00	-	-	-	-	\$21,203,278.70

Bid Information

Par Amount of Bonds	\$17,840,000.00
Reoffering Premium or (Discount)	3,363,278.70
Gross Production	\$21,203,278.70
Total Underwriter's Discount (0.300%)	\$(53,520.00)
Bid (118.552%)	21,149,758.70
Total Purchase Price	\$21,149,758.70
Bond Year Dollars	\$247,923.22
Average Life	13.897 Years
Average Coupon	5.0000000%
Net Interest Cost (NIC)	3.6650066%
True Interest Cost (TIC)	3.2761540%

Municipal Building Authority of Salt Lake County, Utah

\$17,840,000 Lease Revenue Bonds

Series 2019

(Final Numbers)

Total Issue Sources And Uses

Dated 04/11/2019 | Delivered 04/11/2019

	Holladay Library	Daybreak Library	Operations Center	Library Collection	Issue Summary
Sources Of Funds					
Par Amount of Bonds	\$3,380,000.00	\$12,455,000.00	\$1,075,000.00	\$930,000.00	\$17,840,000.00
Reoffering Premium	637,418.15	2,347,955.80	202,950.05	174,954.70	3,363,278.70
Total Sources	\$4,017,418.15	\$14,802,955.80	\$1,277,950.05	\$1,104,954.70	\$21,203,278.70
Uses Of Funds					
Deposit to Project Construction Fund	3,700,000.00	13,300,000.00	1,200,000.00	1,000,000.00	19,200,000.00
Capitalized Interest	269,764.21	1,338,382.43	64,335.74	92,608.80	1,765,091.18
Costs of Issuance	34,103.14	125,667.04	10,846.41	9,383.41	180,000.00
Total Underwriter's Discount (0.300%)	10,140.00	37,365.00	3,225.00	2,790.00	53,520.00
Rounding Amount	3,410.80	1,541.33	(457.10)	172.49	4,667.52
Total Uses	\$4,017,418.15	\$14,802,955.80	\$1,277,950.05	\$1,104,954.70	\$21,203,278.70

Municipal Building Authority of Salt Lake County, Utah

\$17,840,000 Lease Revenue Bonds

Series 2019

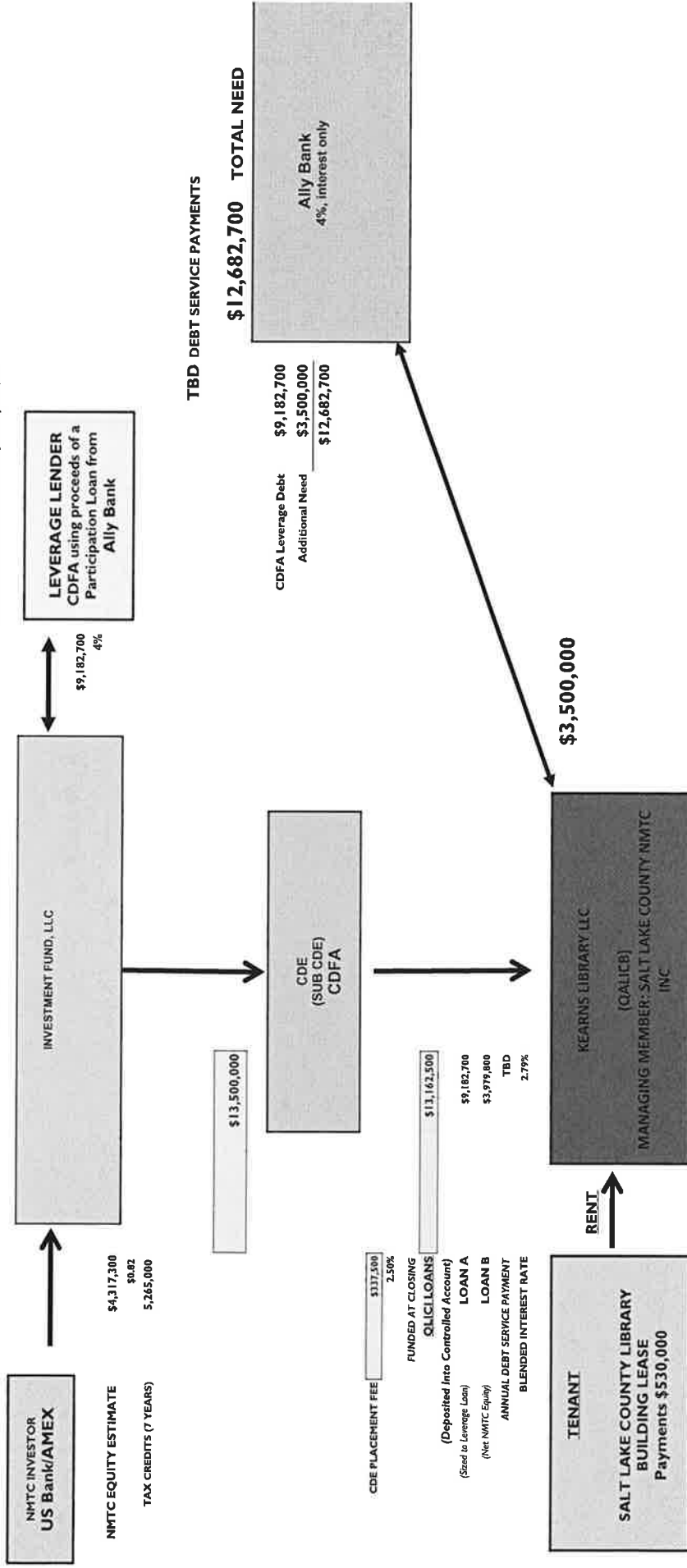
(Final Numbers)

Net Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+I	CIF	Net New D/S	Fiscal Total
04/11/2019	-	-	-	-	-	-	-
07/15/2019	-	-	232,911.11	232,911.11	(232,911.11)	-	-
01/15/2020	-	-	446,000.00	446,000.00	(446,000.00)	-	-
07/15/2020	-	-	446,000.00	446,000.00	(443,909.72)	2,090.28	2,090.28
01/15/2021	-	-	446,000.00	446,000.00	(398,469.44)	47,530.56	-
07/15/2021	-	-	446,000.00	446,000.00	(300,848.61)	145,151.39	192,681.94
01/15/2022	530,000.00	5.000%	446,000.00	976,000.00	-	976,000.00	-
07/15/2022	-	-	432,750.00	432,750.00	-	432,750.00	1,408,750.00
01/15/2023	560,000.00	5.000%	432,750.00	992,750.00	-	992,750.00	-
07/15/2023	-	-	418,750.00	418,750.00	-	418,750.00	1,411,500.00
01/15/2024	585,000.00	5.000%	418,750.00	1,003,750.00	-	1,003,750.00	-
07/15/2024	-	-	404,125.00	404,125.00	-	404,125.00	1,407,875.00
01/15/2025	610,000.00	5.000%	404,125.00	1,014,125.00	-	1,014,125.00	-
07/15/2025	-	-	388,875.00	388,875.00	-	388,875.00	1,403,000.00
01/15/2026	655,000.00	5.000%	388,875.00	1,043,875.00	-	1,043,875.00	-
07/15/2026	-	-	372,500.00	372,500.00	-	372,500.00	1,416,375.00
01/15/2027	685,000.00	5.000%	372,500.00	1,057,500.00	-	1,057,500.00	-
07/15/2027	-	-	355,375.00	355,375.00	-	355,375.00	1,412,875.00
01/15/2028	715,000.00	5.000%	355,375.00	1,070,375.00	-	1,070,375.00	-
07/15/2028	-	-	337,500.00	337,500.00	-	337,500.00	1,407,875.00
01/15/2029	760,000.00	5.000%	337,500.00	1,097,500.00	-	1,097,500.00	-
07/15/2029	-	-	318,500.00	318,500.00	-	318,500.00	1,416,000.00
01/15/2030	795,000.00	5.000%	318,500.00	1,113,500.00	-	1,113,500.00	-
07/15/2030	-	-	298,625.00	298,625.00	-	298,625.00	1,412,125.00
01/15/2031	840,000.00	5.000%	298,625.00	1,138,625.00	-	1,138,625.00	-
07/15/2031	-	-	277,625.00	277,625.00	-	277,625.00	1,416,250.00
01/15/2032	880,000.00	5.000%	277,625.00	1,157,625.00	-	1,157,625.00	-
07/15/2032	-	-	255,625.00	255,625.00	-	255,625.00	1,413,250.00
01/15/2033	925,000.00	5.000%	255,625.00	1,180,625.00	-	1,180,625.00	-
07/15/2033	-	-	232,500.00	232,500.00	-	232,500.00	1,413,125.00
01/15/2034	970,000.00	5.000%	232,500.00	1,202,500.00	-	1,202,500.00	-
07/15/2034	-	-	208,250.00	208,250.00	-	208,250.00	1,410,750.00
01/15/2035	1,020,000.00	5.000%	208,250.00	1,228,250.00	-	1,228,250.00	-
07/15/2035	-	-	182,750.00	182,750.00	-	182,750.00	1,411,000.00
01/15/2036	1,075,000.00	5.000%	182,750.00	1,257,750.00	-	1,257,750.00	-
07/15/2036	-	-	155,875.00	155,875.00	-	155,875.00	1,413,625.00
01/15/2037	1,130,000.00	5.000%	155,875.00	1,285,875.00	-	1,285,875.00	-
07/15/2037	-	-	127,625.00	127,625.00	-	127,625.00	1,413,500.00
01/15/2038	1,180,000.00	5.000%	127,625.00	1,307,625.00	-	1,307,625.00	-
07/15/2038	-	-	98,125.00	98,125.00	-	98,125.00	1,405,750.00
01/15/2039	1,245,000.00	5.000%	98,125.00	1,343,125.00	-	1,343,125.00	-
07/15/2039	-	-	67,000.00	67,000.00	-	67,000.00	1,410,125.00
01/15/2040	1,310,000.00	5.000%	67,000.00	1,377,000.00	-	1,377,000.00	-
07/15/2040	-	-	34,250.00	34,250.00	-	34,250.00	1,411,250.00
01/15/2041	1,370,000.00	5.000%	34,250.00	1,404,250.00	-	1,404,250.00	-
07/15/2041	-	-	-	-	-	-	1,404,250.00
Total	\$17,840,000.00	-	\$12,396,161.11	\$30,236,161.11	(1,822,138.89)	\$28,414,022.22	-

KEARNS LIBRARY
NMTc FLOW OF FUNDS - AT CLOSING

\$13,500,000 FUND CAPITALIZATION



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

Day	Date	Event	Responsibility
Wednesday	April 24	Calendar of Events is distributed at Regular DRC Meeting.	DRC, MA
Friday	May 3	Note Counsel is selected by DA's office.	DA
Wednesday	May 22	Draft Preliminary Official Statement is distributed to the working group.	MA
Thursday	May 30 ²⁹	Cash flow projections are prepared and the size of the Tax Notes is determined.	MA, DRC
→ Thursday	May 30 ²⁸	Due diligence meeting. (2:00 p.m. – County Offices)	DRC, NC, MA
Thursday	May 30 ²⁹	Plan of Finance is presented to DRC.	DRC, MA
Friday	May 31	Plan of Finance with delegated authority is placed on County Council Agenda for June 4th meeting.	NC, CL
Tuesday	June 4	County Council adopts Plan of Finance document with delegated authority.	CC, NC, MA
Wednesday	June 5	Rating package is sent to Moody's	MA
Week of	June 10th	Rating call with Moody's (2:00 pm – Darrin Casper's Office)	By Invitation
Thursday	June 20	Rating is received.	MA
Friday	June 21	Revised POS is distributed to the market.	MA
Tuesday	July 2	Competitive Sale. (9:30 am – Offices of Zions Public Finance)	DRC, U, MA
Tuesday	July 2	Award made via delegated authority – (by 2:00 p.m.)	CFO, NC, MA
Tuesday	July 9	Draft Closing documents are distributed by Note Counsel.	NC
Tuesday	July 9	Final Official Statement is distributed.	MA
Friday	July 12	Pre-closing. (Time and place TBD)	By Invitation
Tuesday	July 16	Closing. (Offices of Note Counsel – 9:00 a.m.)	ALL

*Preliminary; subject to change