# HIGHLANDS RANCH METROPOLITAN DISTRICT FINANCE WORKSHOP ADDENDA

February 22, 2017

Addendum documents can also be viewed at <a href="http://highlandsranch.org">http://highlandsranch.org</a> or <a href="http://intranet.highlandsranch.org/default.aspx">http://intranet.highlandsranch.org/default.aspx</a>

- The PFM Group
- HRMD Financial Results as of December 2016



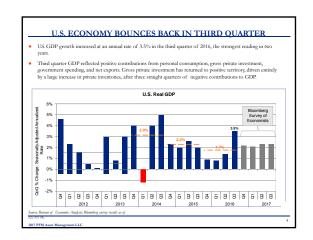


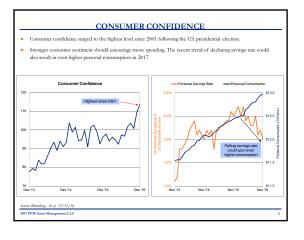
## CURRENT MARKET THEMES

- Treasury yields are much higher and the yield curve is steeper as long-term rates soared with higher inflation expectations post-election
- Market participants expect the Federal Reserve (the "Fed") to raise rates twice in 2017 under moderate economic conditions:
  - GDP growth accelerating after weak first half of 2016
  - Labor market continues to strengthen
  - Inflation picking up slowly
- · Fed officials forecast three interest rate hikes, according to the "dot plot"
- President-elect Trump's proposed spending policies are expected to drive inflation higher and may benefit corporations through tax cuts and deregulation
- Upcoming 2017 elections in Europe could add political uncertainty and generate market volatility

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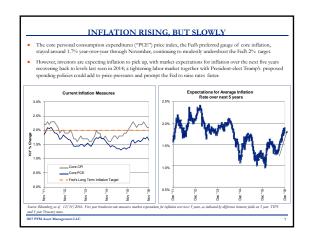




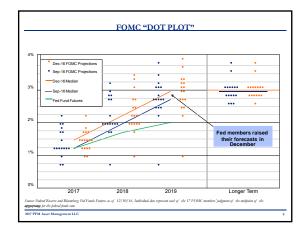


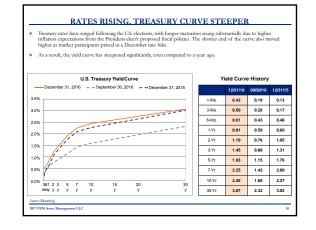
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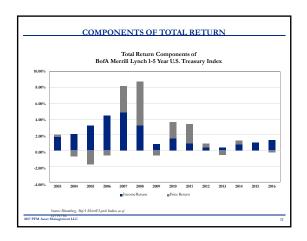


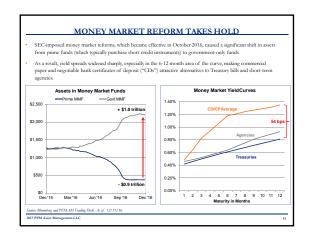
# FOMC STATEMENT HIGHLIGHTS Information received since the FOMC (the "Committee") met in November indicates that the labor market has continued to strengthen and that economic activity has been expanding at a moderate pace since mid-year. Job gains have been solid in recent months and the unemployment rate has declined. 14 Inflation has increased somewhat since earlier this year but is still below the Committee's 2 percent longer-run objective, partly reflecting earlier declines in energy prices and in prices of nonenergy imports. In view of realized and expected labor market conditions and inflation, the Committee decided to raise the target range for the federal funds rate to 0.50 -0.75%. The stance of monetary policy remains accommodative, thereby supporting further strengthening in labor market conditions and a return to 2 percent inflation. All 10 voting members of the FOMC supported the monetary policy action. 2017 PEM Asset Management LLC

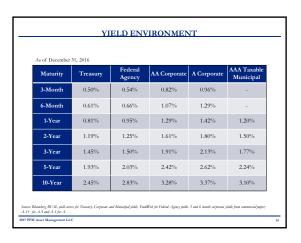




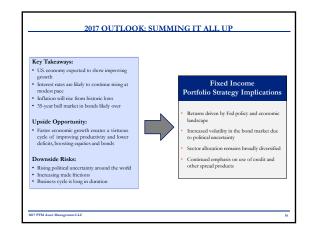


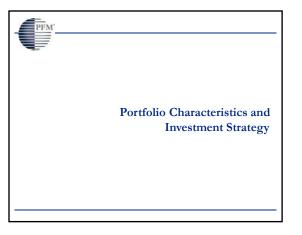






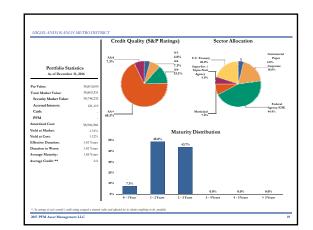
Policy	Proposed Platform	Potential Impact
Fiscal	Massive infrastructure spending     Increased military spending     Entitlement changes (but not social security)	Boost economic growth over mid-term     Increase borrowing and Federal deficit     Higher inflation
Monetary	Fill 2 vacancies on Federal Reserve Board     Increase Congressional oversight of Fed     Replace chair (Yellen) and vice chair (Fischer) when terms expire in February 2018	Tighter monetary policy Less regulation of banks Higher bond yields
Regulatory	Reduce corporate and personal income taxes Simplify tax code Repeal Dodd-Frank Repeal Affordable Healthcare Act Withdraw from Paris Climate Accord Promote Fossi fluel-based energy production	Increase corporate earnings     Change the risk profile of the financial services industry     Disrupt the healthcare industry     Lower energy prices
Immigration	Restrict immigration     Deport undocumented immigrants     "Force Mexico to pay"	Labor shortages in some industries     Exacerbate trade tensions with Mexico     Push up U.S. consumer prices
Trade	Challenge China's economic policy     Renegotiate NAFTA, abandon TPP     Impose taxes or tariffs to pressure nations to negotiate bi-lateral agreements	Stronger U.S. dollar     Higher inflation     Possible trade wars

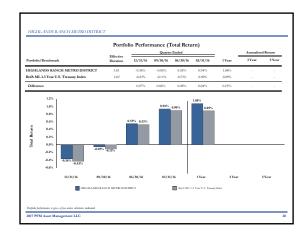


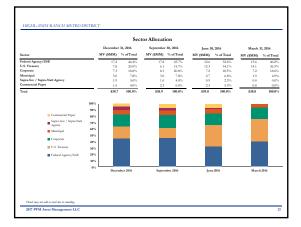


### PORTFOLIO RECAP

- The US presidential election dominated the 4th quarter—first by creating general uncertainty, then by triggering significant market reaction to the surprising Trump victory. Following the election, interest rates surged as expectations for stronger
- intunois loss rous. For much of the past year, we maintained a duration position close to the duration of the portfolio's performance benchmark. By late Octobe, however, we recognized that the uncertainty related to the election, and the strong likelihood of a Fed rate increase, had created an environment less fromoble to this duration position. We strangelingly shortened portfolio durations in late October, reducing the price sensitivity of portfolios to interest rate changes as shorter durations are better for portfolios in a rising rate environment. Then, in early December, following the duration is the interest rates, we extended durations to be more closely algored with benchmarks, capturing the higher yields available.
- The difference in yield between Federal agencies and US. Treasuries (the spread) continued to narrow, erasing much of the value that was seen off and on throughout the year. In some cases, we found it strategically advantageous to swap out of expensive Federal agency holdings into US. Treasuries a stimally yelded: Bagency boddings into US. Treasuries at smally yelded: Bagency recurrings, we foreard one wissons that came to market with yelded concessions. that offered good value.
- We generally maintained allocations to the corporate sector as valuations remained fair-to-modestly-expensive anid tight yield spread levels. The corporate sector once again outperformed comparable-maturity Treasuries during the fourth quarter, and finished the year with the best The corporate sector once again outperformed cor-performance compared to Treasuries since 2012.
- We continued to invest in new-issue asset-backed securities ("ABS"), where permitted, as AAA-rated tranches of high-quality structures continued to offer good value, adding to returns and further diversifying portfolios.
- We maintained existing holdings of mortgage-backed securities ("MIS"), where permitted, seeking incremental income and further portfolio diversification. The sharp rise in interest tests during the quarter led to slower MIS perspurents, which caused many perspectively to the properties of the contractive that were less succeptible passes to rectand and underperform similar datasion Tressursets. On those trensition of sustractives that were less susceptible and the properties of the properties
- The well-publicated reforms to the money market fund industry took effect in the fourth quarter. The reforms caused significant changes in the supply-domaind dynamic in short-term markets. Nearly \$1 trillion in assets shifted from "prime" funds that moves in creds instruments, not powerment restant. The result was necrosed domaind for—and those well-to the result was necrosed domaind for—and two prevents result in the result was necrosed instruments. Legs, connected paper and bank entitless and reduced, the near the result was necrosed under the result was necrosed to the result was not to the result was necrosed to the result was necessary to the result was necess



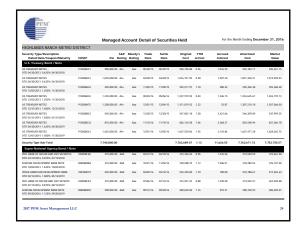


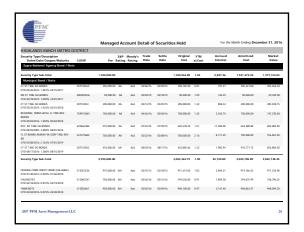


# INVESTMENT STRATEGY OUTLOOK

- Although we enter 2017 with a high degree of political uncertainty, we expect a modest uptick in economic growth in the US, a trend toward higher inflation, and a continued, but gradual, upward trajectory of interest rates.
- The most recent Federal Open Market Committee projections indicate three Fed rate hikes in 2017 and another three hikes in 2018. The market is more conservative, expecting only two hikes
- Since 2017 began with the highest yields in several years, we plan to initially align portfolio durations with the durations of performance
- Roing interest rates ultimately result in higher earning potential for fixed-income investors but negatively affect the market value of current holding. During periods of rining rates, our active nanagement approach, which seeks to maximize long-term returns, may result in the realization of of short-term losser. This is in contrast to the gain realization of short-term losser. This is in contrast to the gain realization of short-term losser. This is in contrast to the gain realization of short-term losser. This is in contrast to the gain realization of short-term losser. This is in contrast to the gain realization of short-term losser. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in contrast to the gain realization of short-term loss. This is in the contrast to the gain realization of short-term loss. This is in the contrast to the gain realization of short-term loss. This is a short-term loss of the short-term loss. This is a short-term loss of the short-term loss of the short-term loss. This is a short-term loss of the short-term loss of the short-term loss. This is a short-term loss of the short-term loss of the short-term loss. This is a short-term loss of the short-term loss of the short-term loss. This is a short-term loss of the short-term loss of the short-term loss. The short-term loss of the short-term loss of the short-term loss. The short-term
- The difference in yields between US. Treasury and Federal agency securities remains narrow. As a result, our strategy will generally favor US. Treasuries when selecting securities in the government sector unless specific Federal agency issues offer sufficient incremental value.
- Yield spreads on corporate securities also remain narrow: As a result, identifying incremental return potential in the corporate bond sector requires careful relative value analysis. Improving corporate profits, as well as anticipated pro-business tax reform from the incoming Trump administration—lower traces also regulation—solved be good for corporate profits, and therefore positive for corporate credit.
- We will continue to evaluate opportunities in the MBS and ABS sectors, purchasing those issues we believe are well structured, offer adequate yield spreads, and which have limited duration variability.
- CDs, and asset-backed securities.
- Yields on commercial paper and negotiable CDs continue to offer significant yield pickup relative to short-term government se
- We will continue to monitor incoming economic data, Fed policy, and market relationships, adjusting portfolio positioning as needed. This
  will include monitoring and assessing the policies of the incoming Trump administration for its impact on economic and market

District Portfolio Holdings





		Manage	d Acc	ount D	etail of	For the Month Ending December 31, 20					
HIGHLANDS RANCH METRO I	DISTRICT										
Security Type/Description Dated Date/Coupon/Maturity Federal Agency Bond / Note	CUSIP	Par I		Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Marke Value
FEDERAL FARM CREDIT BANK (CALLABLE) DTD 04/24/2013 0.980% 04/24/2018	2123ECMF8	1,500,000.00	м.	Ass	04/23/13	04/24/13	1,498,500.00	1.00	2,725.93	1,499,598.65	1,497,856
FEDERAL HOME LOAN BANKS AGCY DTD 05/27/2016 0.875% 06/29/2018	3130A6604	1,195,000.00	AA+	Ass	05/26/16	05/27/16	1,192,120.05	0.99	58.09	1,192,932.22	1,190,844
FHLB NOTES DTD 07/08/2016 0 625% 08/07/2018	3130A6PK3	275,000.00	AA+	Ass	09/10/16	08/12/16	274,015.50	0.91	467.50	274,205.77	272,814
FHEB NOTES DTD 07/08/2014 0.425% 08/07/2018	3130A6PK3	1,625,000.00	AA+	Ass	07/07/16	03/08/16	1,621,620.00	0.72	4,062.50	1,422,395.45	1,612,094
FHEB GLOBAL NOTE DTD 08/36/2016 0.875% 10/01/2018	3130A9AE1	1,525,000.00	AA+	Ass	09/25/16	08/26/16	1,523,963.00	0.91	3,335.94	1,524,131.50	1,516,607
FHEMC REFERENCE NOTE DTD 09/16/2016 0.875% 10/12/2018	3137EAED7	325,000.00	AA+	Ass	09/15/16	09/16/16 em	324,860.25	0.90	929.43	324,879.98	323,233
FILE NOTES DTD 12/08/2016 1 250% 01/16/2019	3130AAE46	750,000.00	AA+	Ass	12/07/16	12/08/16	749,970.00	1.25	598.96	749,970.00	349,728
FINIMA BENICHMARK NOTE DTD 02/23/2016 1 000% 03/26/2019	313560353	950,000.00	AA+	Ass	02/19/16	02/23/16	947,758.00	1.08	3,298.61	948,388.30	944,092
FMMA BENCHMARK NOTE DTD 02/23/2016 1 000% 02/26/2019	313560353	950,000.00	AA+	Ass	08/05/16	08/08/16	952,403.50	0.90	3,298.61	952,033.29	944,092
FREDDIE MAC NOTES DTD 03/21/2016 1.125% 04/15/2019	3137EAD29	800,000.00	AA+	Ass	09/12/16	08/15/16	804,944.00	0.89	1,900.00	804,252.11	796,762
FHEB GLOBAL NOTE DTD 06/03/2016 1:125% 06/21/2019	213046096	775,000.00	AA+	Ass	06/02/16	06/03/16	774,674.50	1.14	242.19	774,724.40	770,588
FHEMC REFERENCE NOTE DTD 07/20/2016 0.875% 07/19/2019	2127EAEB1	950,000.00	AA+	Ass	07/19/16	07/20/16	947,301.00	0.96	2,717.52	948,039.91	927,451
FMMA BENCHMARK NOTE DTD 08/02/2016 0 875% 08/02/2019	3135G0N23	525,000.00	AA+	Ass	07/29/16	08/02/16	524,119.00	0.93	1,901.30	524,238.27	\$17,707
FMMA NOTES DTD 09/02/2016 1.000% 08/28/2019	3135G0P49	1,000,000.00	AA+	Ass	10/03/16	10/05/16	999,400.00	1.02	3,305.56	999,449.69	999,991

		Manage	d Ac	count E	etail of	For the Month Ending December 31, 201					
HIGHLANDS RANCH METRO D	ISTRICT										
Security Type/Description				Moody's	Trade Date	Settle	Original	YTM	Accrued	Amortized	Market
Dated Date/Coupon/Maturity Federal Agency Bond / Note	CUSIP	Par	Rating	Rating	Date	Date	Cost	at Cost	Interest	COST	Value
NMA NOTES DTD 09/00/2016 1,000% 08/28/2019	213550949	1,500,000.00	AA+	Ass	09/21/16	09/02/16	1,497,660.00	1.05	4,958.33	1,497,915.17	1,482,236.50
Security Type Sub-Total		17,220,000.00					17,302,642.30	0.97	42,781.37	17,309,860.69	17,214,324.61
COCA-COLA CO NOTES DTD 10/27/2015 0.875% 10/27/2017	191216880	275,000.00	AA-	Anil	10/22/15	10/27/15	274,879.00	0.90	427.78	274,950.01	274,479.90
SENERAL ELECTRIC CO NOTES 3TD 12/06/2007 5:250% 12/06/2017	369604806	750,000.00	AA-	All	12/01/14	12/08/14	835,792.50	1.34	2,734.38	777,023.74	736,951.25
TOYOTA MOTOR CREDIT CORP NOTE OTD 01/12/2015 1.450% 01/12/2018	99236TCA1	250,000.00	AA-	Anl	01/03/15	01/12/15	249,657.50	1.50	1,301.74	249,880.63	250,072.50
WAL MART STORES INC. CORP NOTES DTD 08/24/2007 5.800% 02/15/2018	921142C.00	275,000.00	AA	Au2	06/09/15	06/12/15	419,205.00	1.30	9,216.67	393,730.31	393,287.63
DOXON MOBIL CORPINOTES DTD 02/06/2015 1.305% 02/06/2018	30221GAL6	750,000.00		Ass	03/04/15	03/06/15	750,000.00	1.21	3,126.56	750,000.00	749,822.25
MI COMPANY CORP NOTE 3TD 08/07/2015 1.375% 08/07/2018	99579YAP4	505,000.00		All	09/04/15	09/07/15	504,101.10	1.44	2,777.50	504,515.87	504,827.90
SERVISHES HATHAWAY INC GLOBAL NOTES DTD 08/15/2016 1.150% 08/15/2018	0846708XS	190,000.00		Au2	09/08/16	09/15/16	179,978.40	1.16	792.00	179,962.45	179,096.58
BICROSOFT CORP NOTES DTD 11/03/2015 1.300% 11/03/2018	5949188F0	700,000.00		Ass	10/29/15	11/02/15	699,300.00	1.22	1,466.11	699,567.70	699,440.70
BM CORP NOTE STD 02/12/2014 1.950% 02/12/2019	459200HT1	750,000.00	AA-	Asi	02/17/16	02/19/16	758,595.00	1.56	5,646.93	756,136.37	754,602.00
OTD 02/01/2016 1.125% 02/01/2019	479160BR4	210,000.00		Ass	02/26/16	03/01/16	209,974.80	1.12	797.50	209,981.72	209,314.54
DEDICEMENT HATHAWAY INC NOTES DTD 02/15/2016 1.700% 02/15/2019	001664054	110,000.00		As2	03/08/16	03/15/16	109,916.40	1.72	550.41	109,928.13	109,902.54
CHEVRON CORP NOTES	1663648H2	750,000.00	AA-	As2	05/09/16	05/16/16	750,000.00	1.56	1,462.44	750,000.00	746,919.75

100		Managed A	count D	etail o	Securi	ties Held		For the	Month Ending Dec	sember 31, 20
HIGHLANDS RANCH METRO E	DISTRICT									
Security Type/Description Dated Date/Coupon/Maturity	CUSIP	SAP Par Ratin	Moody's	Trade Date	Settle	Original	YTM at Cost	Accrued	Amortized	Market
Corporate Note			,			-			-	-
COCA-COLA COMPANY CORP NOTES DTD 05/21/2016 1.275% 05/20/2019	1912168V1	400,000.00 AA-	Asi	05/25/14	05/31/16	399,720.00	1.40	473.61	399,773.81	297,342
MPPLE INC CORP NOTES DTD 08/04/2016 1.100% 08/02/2019	0279220284	750,000.00 AA+	Aut	07/28/16	09/04/16	749,250.00	1.12	3,368.75	749,350.95	728,795.0
TOYOTA MOTOR CORP NOTES DTD 10/18/2016 1.550% 10/18/2019	8923670945	\$15,000.00 AA-	Asil	10/13/16	10/19/16	514,742.50	1.57	1,618.67	514,759.57	500,766.4
Security Type Sub-Total		7,270,000.00				7,405,112.20	1.27	35,142.20	7,219,591.16	7,292,620.9
Commercial Paper										
INP PARIBAS NY BRANCH COMM PAPER  — 0.000% 03/13/2017	096598QD5	775,000.00 A-1	P-1	06/16/16	06/17/16	740,919.40		0.00	773,395.11	773,547.6
IP MORSAN SECURITIES LLC COMM PAPER - 0.000% 03/13/2017	46640PQDB	775,000.00 A-1	P-1	06/16/16	06/16/16	769,187.50	1.01	0.00	772,471.53	773,695.6
Security Type Sub-Total		1,550,000.00				1,539,106.98	1.03	0.00	1,546,866.64	1,547,243.3
Annaged Account Sub-Total		38,815,000.00				29,003,894.15	1.12	121,118.89	38,904,948.40	38,748,231.6
iecurities Sub-Total		\$38,815,000.00				\$29,003,894.15	1.12%	\$121,118.89	\$38,906,968.40	\$20,740,231.0
Accrued Interest										\$121,118.6
Total Investments										\$28,869,250.7

# Important Disclosures This manual is based on information desired from ourses generally believed to be stidely and available to the public, however FYM Anse Management LLC coming garantees in occurs, complements or windled. The mental of the general information proposes only and not inmuded to provide specific abition or a few processors. As the processor of the processors of the proces

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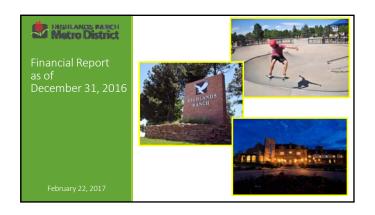
- ACCRUED INTEREST: Interest that is due on a bond or other fixed income security since the last interest payment was made.
- AGENCIES: Federal agency securities and/or Government-sponsored enterprise
- AMORTIZED COST: The original cost of the principal of the security is adjusted for the amount of the periodic reduction of any discount or premium from the purchase date until
  the date of the report. Discount or premium with respect to short term securities (those with less than one year to manarity at time of issuance) is amounteed on a original line basic. Suc
  discount or normalism with respect to lower term securities is amortized using the constant visible base.
- . BANKERS' ACCEPTANCE: A draft or bill or exchange accepted by a bank or trust company. The accepting institution guarantees payment of the bill, as well as the insure
- COMMERCIAL PAPER: An unsecured obligation issued by a corporation or bank to finance its short-term credit needs, such as accounts receivable and irrentory.
- CONTRIBUTION TO DURATION: Represents each sector or maturity range's relative contribution to the overall duration of the portfolio measured as a percentage weighting. Since duration is a key measure of increor tran sensitivity, the contribution to duration measures the relative amount or contribution of that sector or maturity range to the setal rate southirty of the rooffolio.
- DURATION TO WORST: A measure of the sensitivity of a security's price to a change in interest rates, stated in years, compared from cash flows to the maturity date or to the put date, whichever results in the highest yield to the investor.
- EFFECTIVE DURATION: A measure of the sunsitivity of a security's price to a change in interest rates, stated in years
- EFFECTIVE YIELD: The neal yield an investor receives in relation to the nominal yield or coupon of a bond. Effective yield takes into account the power of compounding on investment returns, while nominal yield does not.
- FDIC: Federal Deposit Insurance Corporation. A federal agency that insures bank deposits to a specified amount.
- INTEREST RATE: Interest per year divided by principal amount, expressed as a percentage.
- MARKET VALUE: The value that would be received or paid for an investment in an orderly transaction between market participants at the measurement date
- MATURITY: The date upon which the principal or stated value of an investment becomes due and payable.
- NEGOTIABLE CERTIFICATES OF DEPOSIT: A CD with a very large denomination, usually \$1 million or more that can be traded in secondary markets
- PAR VALUE: The nominal dollar face amount of a security.

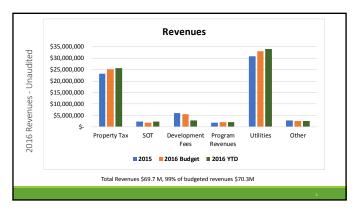
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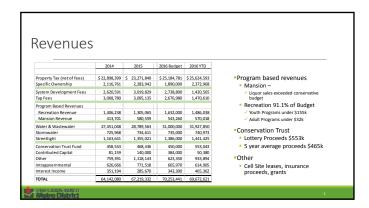
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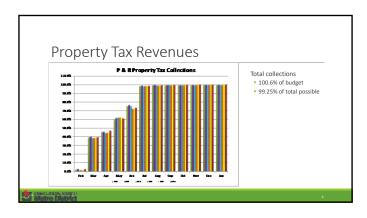
- PASS THROUGH SECURITY: A security representing pooled debt obligations that passes income from debtors to its shareholder. The most common type is the mortgage-bac security.
- REPURCHASE AGREEMENTS: A holder of securities sells these securities to an investor with an agreement to repurchase them at a fixed price on a fixed date.
- SETTLE DATE: The date on which the transaction is settled and monitor/securities are exchanged. If the settle date of the transaction occurs on a non-business day (i.e. coupon payments and maturity proceeds), the funds are exchanged on the next business day.
- TRADE DATE: The date on which the transaction occurred however the final consummation of the security transaction and payment has not yet taken place.
- UNSETTLED TRADE: A trade which has been executed however the final consummation of the security transaction and payment has not yet taken place.
- THE PLANE A like with the sent collection of every life that constitution in the second interest and political the sent plane
- YIELD: The rate of seurn based on the current market value, the annual interest receipts, manarity value and the time period remaining until maturity, stated as a percentage, on annualized basis.
- YTM AT COST: The yield to manuity at cost is the expected new of return, based on the original cost, the annual interest receipts, manuity value and the time period from purchase date to manuity, stated as a percentage, on an annualized basis.
- YTM AT MARKET: The yield so manusiny at market is the rate of return, based on the current market value, the annual interest receipts, maturity value and the time period remaining until maturity, stated as a precongg, on an annualized basis.

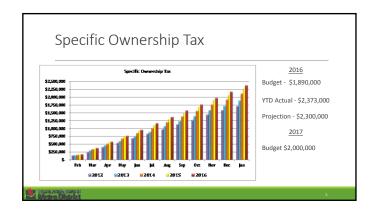
2017 PFM Asset Management LLC











pject	BOARD DIRECTED BUDGET Personal Services Contracted Services	\$ 5,725,555						
Ubject		\$ 5,725,555						Fire Contract
שלייט	Contracted Services		\$ 6,117,715	\$ 5,995,160	\$ 5,860,893	\$ 134,267	2.2%	Under still
5		7,880,438	8,812,299	8,812,299	8,610,122	202,177	2.3%	waiting final
	Miscellaneous Capital	293,958		-	-	-		2016 adjustmen
2	Total Board Directed Cost	13,899,951	14,930,014	14,807,459	14,471,015	336,444	2.3%	
^	DEPT. DIRECTED NONVARIABLE							
3	Materials and Supplies	742,613	826,180	826,180	646,161	180,019	21.8%	Miscellaneous
ž	Purchased Services	901,464	1,194,444	1,226,204	986,138	240,066	19.6%	Outside Service
-	Contracted Services	767,186	867,943	901,493	798,786	102,707	11.4%	Under budget (Community
5	Total Dept Dir Nonvariable	2,411,263	2,888,567	2,953,877	2,431,085	522,792	17.7%	Relations)
	DEPT DIRECTED VARIABLE							
=	Fuel and Chemical Services	125,275	206,000	176,000	130,147	45,853	26.1%	
5	Utilities	1,285,597	1,374,515	1,375,815	1,514,891	(139,076)	-10.1%	Water
	Total Dept dir variable	1,410,872	1,580,515	1,551,815	1,645,038	(93,223)	-6.0%	significantly ove budget \$156K
2	TOTAL DEPARTMENTS	\$ 17,722,086	\$ 19,399,096	\$ 19,313,151	\$ 18,547,138	\$ 766,013	4.0%	
General								

