

PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 28, 2016

PAGE 1  
000 B000000 04/30/2016  
000 C000000 0001223026  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
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001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
002 B000000 BOSTON  
002 C000000 MA  
002 D010000 02109  
003 000000 N  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
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008 D020001 MA  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
010 B000001 801-8255  
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010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
010 C020002 MA  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
011 B000001 8-41256  
011 C010001 BOSTON  
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011 C030001 02109  
011 C040001 1820  
011 A000002 UBS INVESTMENT BANK  
011 B000002 8-022651  
011 C010002 STAMFORD  
011 C020002 CT

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011 C030002 06901  
011 A000003 RBC CAPITAL MARKETS CORP.  
011 B000003 8-045411  
011 C010003 MINNEAPOLIS  
011 C020003 MN  
011 C030003 55402  
011 C040003 4422  
011 A000004 ADVEST, INC.  
011 B000004 8-21409  
011 C010004 HARTFORD  
011 C020004 CT  
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC  
011 B000005 8-462  
011 C010005 PHILADELPHIA  
011 C020005 PA  
011 C030005 19103  
011 C040005 1675  
011 A000006 MCDONALD INVESTMENTS, INC.  
011 B000006 8-30177  
011 C010006 CLEVELAND  
011 C020006 OH  
011 C030006 44114  
011 C040006 2603  
011 A000007 STIFEL, NICOLAUS & CO., INC.  
011 B000007 8-001447  
011 C010007 ST. LOUIS  
011 C020007 MO  
011 C030007 63102  
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.  
012 B000001 85-01359  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)  
012 B000002 85-00000  
012 C010002 BROOKLYN  
012 C020002 NY  
012 C030002 11219  
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF)  
012 B000003 85-00000  
012 C010003 NEW YORK  
012 C020003 NY  
012 C030003 10005  
013 A000001 DELOITTE & TOUCHE LLP  
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015 A000002 CITIBANK, N.A. BUENOS AIRES BRANCH  
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015 D010002 ARGENTINA  
015 E040002 X  
015 A000003 HSBC BANK AUSTRALIA LIMITED  
015 B000003 S

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015 C010003 SYDNEY  
015 D010003 AUSTRALIA  
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015 A000004 UNICREDIT BANK AUSTRIA AG  
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015 C010004 VIENNA  
015 D010004 AUSTRIA  
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015 D010007 ESTONIA  
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015 A000011 BANCO DE CHILE  
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015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED  
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015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA  
015 B000013 S  
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015 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
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015 C010015 PRAGUE

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015 D010015 CZECH REPUBLIC  
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015 E040016 X  
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015 D010017 EGYPT  
015 E040017 X  
015 A000018 NORDEA BANK FINLAND PLC  
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015 A000022 HSBC BANK PLC, ATHENS BRANCH  
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015 D010022 GREECE  
015 E040022 X  
015 A000023 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
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015 C010023 KWUN TONG  
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015 A000024 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
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015 A000025 CITIBANK, N.A.-MUMBAI BRANCH  
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015 A000026 CITIBANK, N.A., JAKARTA BRANCH  
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015 A000027 CITIBANK, N.A., LONDON BRANCH  
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015 E040027 X  
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PAGE 6  
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015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
015 B000036 S  
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015 E040036 X  
015 A000037 CITIBANK MAGHREB  
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015 C010037 CASABLANCA  
015 D010037 MOROCCO  
015 E040037 X  
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015 A000039 HSBC LIMITED, NEW ZEALAND BRANCH  
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015 E040039 X  
015 A000040 STANBIC IBTC BANK PLC  
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015 C010040 LAGOS  
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015 A000041 NORDEA BANK NORGE ASA  
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015 D010041 NORWAY  
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015 A000042 CITIBANK DEL PERU S.A.  
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PAGE 7  
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015 A000044 BANK HANDLOWY W WARSZAWIE SA  
015 B000044 S  
015 C010044 WARSAW  
015 D010044 POLAND  
015 E040044 X  
015 A000045 BNP PARIBAS SECURITIES SERVICES  
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015 A000054 BANCO BILBAO VIZCAYA AREGENTARIA SA  
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015 A000055 HSBC, SRI LANKA BRANCH  
PAGE 8  
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015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB (PUB)  
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015 D010063 VENEZUELA  
015 E040063 X  
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015 A000066 CITIBANK EUROPE PLC, DUBLIN-SUCURSALA ROMANIA  
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015 D010066 ROMANIA  
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077	J000000	N
077	K000000	N
077	L000000	N
077	M000000	N
077	N000000	N
077	O000000	N
077	P000000	N
077	Q010000	N
077	Q020000	N
077	Q030000	N
078	000000	N
080	A000000	ICI MUTUAL INSURANCE COMPANY
080	C000000	45000
081	A000000	Y
081	B000000	49
	PAGE	16
082	A000000	Y
082	B000000	0
083	A000000	N
083	B000000	0
084	A000000	N
084	B000000	0
085	A000000	Y
085	B000000	N
086	A010000	18
086	A020000	243
086	B010000	0
086	B020000	0
086	C010000	0
086	C020000	0
086	D010000	0
086	D020000	0
086	E010000	0
086	E020000	0
086	F010000	0
086	F020000	0
087	A010000	COMMON STOCK
087	A020000	723763108

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087 A030000 MHI  
087 B010000 PREFERRED STOCK - SERIES A  
087 B020000 723763207  
087 C010000 PREFERRED STOCK - SERIES B  
087 C020000 723763306  
088 A000000 N  
088 B000000 N  
088 C000000 N  
088 D000000 Y  
SIGNATURE MARK BRADLEY  
TITLE TREASURER