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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 27, 2013

PAGE 1  
000 A000000 10/31/2013  
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001 C000000 6177427825  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
011 B000001 8-41256  
011 C010001 BOSTON  
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011 C030001 02109  
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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  
012 C010001 BOSTON  
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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  
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013 A000001 ERNST & YOUNG LLP  
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013 B010001 BOSTON  
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015 B000002 S  
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015 D010002 ARGENTINA  
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015 A000003 HSBC BANK AUSTRALIA LIMITED

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015 B000003 S  
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015 D010003 AUSTRALIA  
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015 A000004 UNICREDIT BANK AUSTRIA AG  
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015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA  
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015 A000016 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)DAN

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015 B000016 S  
015 C010016 COPENHAGEN  
015 D010016 DENMARK  
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015 D010017 EGYPT  
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015 A000018 NORDEA BANK FINLAND PLC  
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015 A000019 BNP PARIBAS SECURITIES SERVICES  
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015 A000021 STANDARD CHARTERED BANK GHANA LTD.  
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015 C010022 ATHENS  
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015 E040022 X  
015 A000023 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
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015 E040023 X  
015 A000024 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
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015 A000025 CITIBANK, N.A.-MUMBAI BRANCH  
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015 A000027 CITIBANK, N.A., LONDON BRANCH  
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015 D010027 IRELAND  
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015 A000028 BANK HAPOALIM BM  
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015 C010028 TEL AVIV  
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015 A000030 SUMITOMO MITSU BANKING CORPORATION  
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015 A000031 HSBC BANK MIDDLE EAST LIMITED, JORDAN BRANCH  
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015 A000033 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH  
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015 A000035 HSBC BANK MALAYSIA BERHAD  
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015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
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015 E040037 X  
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015 D010040 NIGERIA  
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015 A000041 NORDEA BANK NORGE ASA  
015 B000041 S  
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PAGE 7  
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015 A000043 HSBC LIMITED, PHILIPPINE BRANCH  
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015 D010047 ROMANIA  
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015 A000048 ZAO CITIBANK  
015 B000048 S  
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015 E040048 X  
015 A000049 HSBC SAUDI ARABIA LIMITED  
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015 D010049 SAUDI ARABIA  
015 E040049 X  
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PAGE 8  
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015 A000052 STANDARD BANK OF SOUTH AFRICA LIMITED  
015 B000052 S  
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015 D010052 SOUTH AFRICA  
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015 A000053 CITIBANK KOREA INC  
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015 A000064 HSBC BANK (VIETNAM) LTD  
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086	F020000	0
087	A010000	COMMON STOCK
087	A020000	723763108
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

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SIGNATURE MARK BRADLEY  
TITLE TREASURER