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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 29, 2014

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000 A000000 10/31/2014
000 C000000 0001223026
000 D000000 N
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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
004 000000 N
005 000000 N
006 000000 N
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008 B000001 A
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008 D010001 BOSTON
008 D020001 MA
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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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PAGE 2
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
011 C030004 06103
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
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012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
012 B000001 85-01359
012 C010001 BOSTON
012 C020001 MA
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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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012 C030003 10005
013 A000001 DELOITTE & TOUCHE LLP
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013 B010001 BOSTON
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015 B000002 S
015 C010002 BUENOS AIRES
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
015 E040003 X
015 A000004 UNICREDIT BANK AUSTRIA AG
015 B000004 S
015 C010004 VIENNA
015 D010004 AUSTRIA
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015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH
015 B000005 S
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015 E040005 X
015 A000006 BNP PARIBAS SECURITIES SERVICES
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015 C010006 PANTIN
015 D010006 BELGIUM
015 E040006 X
015 A000007 NORDEA BANK FINLAND PLC
015 B000007 S
015 C010007 HELSINKI
015 D010007 ESTONIA
015 E040007 X
015 A000008 CITIBANK, N.A., SAO PAULO
015 B000008 S
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015 D010008 BRAZIL
015 E040008 X
015 A000009 CITIBANK EUROPE PLC, BULGARIA BRANCH
015 B000009 S
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015 C010011 SANTIAGO
015 D010011 CHILE
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015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED
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015 A000014 UNICREDIT BANK AUSTRIA AG
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015 C010014 VIENNA
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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 A000016 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL) DAN
015 B000016 S
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015 E040016 X
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015 D010017 EGYPT
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015 A000018 NORDEA BANK FINLAND PLC
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015 E040018 X
015 A000019 BNP PARIBAS SECURITIES SERVICES
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015 D010020 GERMANY
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015 A000021 STANDARD CHARTERED BANK GHANA LTD.
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015 C010021 ACCRA
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015 A000022 HSBC BANK PLC, ATHENS BRANCH
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015 C010022 ATHENS
015 D010022 GREECE
015 E040022 X
015 A000023 STANDARD CHARTERED BANK (HONG KONG) LIMITED
015 B000023 S
015 C010023 KWUN TONG
015 D010023 HONG KONG
015 E040023 X
015 A000024 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE
015 B000024 S
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015 D010024 HUNGARY
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015 A000025 CITIBANK, N.A.-MUMBAI BRANCH
015 B000025 S
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015 D010025 INDIA
015 E040025 X
015 A000026 CITIBANK, N.A., JAKARTA BRANCH
015 B000026 S
015 C010026 JAKARTA
015 D010026 INDONESIA
015 E040026 X
015 A000027 CITIBANK, N.A., LONDON BRANCH
015 B000027 S
015 C010027 LONDON
015 D010027 IRELAND

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015 E040027 X
015 A000028 BANK HAPOALIM BM
015 B000028 S
015 C010028 TEL AVIV
015 D010028 ISRAEL
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015 A000029 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH
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015 A000030 SUMITOMO MITSU BANKING CORPORATION
015 B000030 S
015 C010030 TOKYO
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015 A000031 HSBC BANK MIDDLE EAST LIMITED, JORDAN BRANCH
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015 E040031 X
015 A000032 CFC STANBIC BANK LIMITED
015 B000032 S
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015 D010032 KENYA
015 E040032 X
015 A000033 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH
015 B000033 S
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015 E040033 X
015 A000034 KBL EUROPEAN PRIVATE BANKERS SA
015 B000034 S
015 C010034 LUXEMBOURG
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015 E040034 X
015 A000035 HSBC BANK MALAYSIA BERHAD
015 B000035 S
015 C010035 KUALA LUMPUR
015 D010035 MALAYSIA
015 E040035 X
015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
015 B000036 S
015 C010036 MEXICO CITY
015 D010036 MEXICO
015 E040036 X
015 A000037 CITIBANK MAGHREB
015 B000037 S
015 C010037 CASABLANCA
015 D010037 MOROCCO
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015 E040038 X
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015 B000039 S
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015 A000040 STANBIC IBTC BANK PLC
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015 C010040 LAGOS
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PAGE 7
015 A000041 NORDEA BANK NORGE ASA
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015 A000043 HSBC LIMITED, PHILIPPIINE BRANCH
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015 A000044 BANK HANDLOWY W WARSZAWIE SA
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015 C010044 WARSAW
015 D010044 POLAND
015 E040044 X
015 A000045 BNP PARIBAS SECURITIES SERVICES
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015 D010046 QATAR
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015 A000047 ING BANK N.V., BUCHAREST BRANCH
015 B000047 S
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015 D010047 ROMANIA
015 E040047 X
015 A000048 ZAO CITIBANK
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015 C010048 MOSCOW
015 D010048 RUSSIA
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015 A000049 HSBC SAUDI ARABIA LIMITED
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015 A000050 STANDARD CHARTERED BANK SINGAPORE BRANCH
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015 A000051 ING BANK NV, BRATISLAVA BRANCH
PAGE 8
015 B000051 S
015 C010051 BRATISLAVA
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015 A000052 STANDARD BANK OF SOUTH AFRICA LIMITED
015 B000052 S
015 C010052 JOHANNESBURG
015 D010052 SOUTH AFRICA
015 E040052 X
015 A000053 CITIBANK KOREA INC
015 B000053 S
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015 D010053 SOUTH KOREA
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015 A000054 BANCO BILBAO VIZCAYA AREGENTARIA SA
015 B000054 S
015 C010054 MADRID
015 D010054 SPAIN
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015 A000055 HSBC, SRI LANKA BRANCH
015 B000055 S
015 C010055 COLOMBO
015 D010055 SRI LANKA
015 E040055 X
015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB(PUB)
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015 C010056 STOCKHOLM
015 D010056 SWEDEN
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015 A000061 HSBC BANK MIDDLE EAST LIMITED
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PAGE 9
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015 A000064 HSBC BANK (VIETNAM) LTD

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071 A000000 35479

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088 B000000 N

088 C000000 N

088 D000000 Y

SIGNATURE MARK BRADLEY

TITLE TREASURER