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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 27, 2013

PAGE 1
000 A000000 10/31/2013
000 C000000 0001223026
000 D000000 N
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000 I000000 6.1
000 J000000 A
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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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010 C010001 BOSTON
010 C020001 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
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011 C020001 MA
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
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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
011 C030007 63102
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
012 B000001 85-01359
012 C010001 BOSTON
012 C020001 MA
012 C030001 02109
012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
012 B000002 85-00000
012 C010002 BROOKLYN
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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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015 D010002 ARGENTINA
015 E040002 X
015 A000003 HSBC BANK AUSTRALIA LIMITED

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015 B000003 S
015 C010003 SYDNEY
015 D010003 AUSTRALIA
015 E040003 X
015 A000004 UNICREDIT BANK AUSTRIA AG
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015 A000007 EUROCLEAR BANK SA NV
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015 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
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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 A000018 NORDEA BANK FINLAND PLC
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015 E040018 X
015 A000019 BNP PARIBAS SECURITIES SERVICES
015 B000019 S
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015 A000020 BNP PARIBAS SECURITIES SERVICES, FRANKFURT
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015 D010020 GERMANY
015 E040020 X
015 A000021 STANDARD CHARTERED BANK GHANA LTD.
PAGE 5
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015 A000022 HSBC BANK PLC, ATHENS BRANCH
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015 A000023 STANDARD CHARTERED BANK (HONG KONG) LIMITED
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015 D010023 HONG KONG
015 E040023 X
015 A000024 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE
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015 E040024 X
015 A000025 CITIBANK, N.A.-MUMBAI BRANCH
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015 A000026 CITIBANK, N.A., JAKARTA BRANCH
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015 E040026 X
015 A000027 CITIBANK, N.A., LONDON BRANCH
015 B000027 S
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015 D010027 IRELAND
015 E040027 X
015 A000028 BANK HAPOALIM BM
015 B000028 S

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015 C010028 TEL AVIV
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015 C010029 MILAN
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015 A000030 SUMITOMO MITSU BANKING CORPORATION
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015 C010030 TOKYO
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015 E040030 X
015 A000031 HSBC BANK MIDDLE EAST LIMITED, JORDAN BRANCH
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PAGE 6

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015 E040031 X
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015 E040033 X
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015 E040034 X
015 A000035 HSBC BANK MALAYSIA BERHAD
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015 C010035 KUALA LUMPUR
015 D010035 MALAYSIA
015 E040035 X
015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
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015 A000037 CITIBANK MAGHREB
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015 D010037 MOROCCO
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015 A000040 STANBIC IBTC BANK PLC
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015 C010040 LAGOS

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015 D010040 NIGERIA
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015 A000041 NORDEA BANK NORGE ASA
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PAGE 7
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015 A000044 BANK HANDLOWY W WARSZAWIE SA
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015 C010044 WARSAW
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015 D010048 RUSSIA
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015 A000049 HSBC SAUDI ARABIA LIMITED
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015 C010049 RIYADH
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015 D010051 SLOVAKIA
PAGE 8
015 E040051 X
015 A000052 STANDARD BANK OF SOUTH AFRICA LIMITED
015 B000052 S
015 C010052 JOHANNESBURG

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015 D010052 SOUTH AFRICA
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015 B000055 S
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015 D010055 SRI LANKA
015 E040055 X
015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB(PUB)
015 B000056 S
015 C010056 STOCKHOLM
015 D010056 SWEDEN
015 E040056 X
015 A000057 CREDIT SUISSE AG
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015 C010057 ZURICH
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015 A000058 BANK OF TAIWAN
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015 D010058 TAIWAN
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015 A000059 HSBC LIMITED, THAILAND BRANCH
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015 C010059 BANGKOK
015 D010059 THAILAND
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015 A000060 CITIBANK ANONIM SIRKETI
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015 D010060 TURKEY
015 E040060 X
015 A000061 HSBC BANK MIDDLE EAST LIMITED
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| 074 R020000 | 0 |
| 074 R030000 | 0 |
| 074 R040000 | 135 |
| 074 S000000 | 101001 |
| 074 T000000 | 295392 |
| 074 U010000 | 22606 |

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| | | |
|-----|---------|----------------------------|
| 074 | U020000 | 0 |
| 074 | V010000 | 13.07 |
| 074 | V020000 | 0.00 |
| 074 | W000000 | 0.0000 |
| 074 | X000000 | 5929 |
| 074 | Y000000 | 0 |
| 075 | A000000 | 0 |
| 075 | B000000 | 306083 |
| 076 | 000000 | 14.32 |
| 077 | A000000 | N |
| 078 | 000000 | N |
| 080 | C000000 | 0 |
| 081 | B000000 | 0 |
| 082 | B000000 | 0 |
| 083 | B000000 | 0 |
| 084 | B000000 | 0 |
| 086 | A010000 | 42 |
| 086 | A020000 | 574 |
| 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 |
| 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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