

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 30, 2014

PAGE 1
000 B000000 03/31/2014
000 C000000 0001258943
000 D000000 N
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000 H000000 N
000 I000000 6.1
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001 A000000 PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST
001 B000000 811-21409
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
003 000000 N
004 000000 N
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006 000000 N
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007 C010900 9
007 C011000 10
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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008 C000001 801-8255
008 D010001 BOSTON
008 D020001 MA
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010 C010001 BOSTON
010 C020001 MA
010 C030001 02109
010 A000002 BROWN BROTHERS HARRIMAN & CO.
010 C010002 BOSTON
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010 C030002 02110
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
011 C010001 BOSTON
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 MERRILL LYNCH & CO.
011 B000004 8-7221
011 C010004 NEW YORK
011 C020004 NY
011 C030004 10281
011 C040004 1201
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 WACHOVIA CAPITAL MARKETS, LLC
011 B000006 8-99999
011 C010006 RICHMOND
011 C020006 VA
011 C030006 23219
012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SERV. INC.
012 B000001 85-01359
012 C010001 BOSTON
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012 C030001 02109
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 85-05212
012 C010003 NEW YORK
012 C020003 NY
012 C030003 10005
013 A000001 ERNST & YOUNG, LLP
013 B010001 BOSTON
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013 B040001 5072
015 A000001 BROWN BROTHERS HARRIMAN & CO.
PAGE 3
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015 C010002 BUENOS AIRES
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015 E040002 X
015 A000003 HSBC BANK AUSTRALIA LIMITED
015 B000003 S
015 C010003 SYDNEY
015 D010003 AUSTRALIA
015 E040003 X
015 A000004 UNICREDIT BANK AUSTRIA AG

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015 B000004 S
015 C010004 VIENNA
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015 D010006 BELGIUM
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015 A000007 BNP PARIBAS SECURITIES SERVICES
015 B000007 S
015 C010007 PANTIN
015 D010007 BELGIUM
015 E040007 X
015 A000008 CITIBANK, N.A., SAO PAULO
015 B000008 S
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015 D010008 BRAZIL
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015 A000009 ING BANK, N.V., SOFIA BRANCH
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015 C010015 COPENHAGEN
015 D010015 DENMARK
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015 A000016 CITIBANK, N.A., CAIRO BRANCH
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015 C010016 CAIRO
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015 A000020 STANDARD CHARTERED BANK GHANA LTD.
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015 A000021 HSBC BANK PLC, ATHENS BRANCH
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015 E040021 X
015 A000022 STANDARD CHARTERED BANK (HONG KONG) LIMITED
015 B000022 S
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015 A000023 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE
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015 A000024 CITIBANK, N.A., MUMBAI BRANCH
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015 A000025 CITIBANK, N.A., JAKARTA BRANCH
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015 E040026 X
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015 B000027 S
015 C010027 TEL AVIV
015 D010027 ISRAEL
015 E040027 X
015 A000028 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH
015 B000028 S
015 C010028 MILAN

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015 D010028 ITALY
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015 A000029 SUMITOMO MITSU BANKING CORPORATION
015 B000029 S
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015 E040030 X
015 A000031 CFC STANBIC BANK LIMITED
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015 C010031 NAIROBI
PAGE 6
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015 D010034 MALAYSIA
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015 D010036 MOROCCO
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015 A000040 NORDEA BANK NORGE ASA
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015 C010040 OSLO
015 D010040 NORWAY

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PAGE 7
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015 A000043 BANK HANDLOWY W WARSZAWIE SA
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015 C010043 WARSAW
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015 A000046 ING BANK N.V., BUCHAREST BRANCH
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015 A000047 ZAO CITIBANK
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015 C010047 MOSCOW
015 D010047 RUSSIA
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015 A000048 HSBC SAUDI ARABIA LIMITED
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015 C010048 RIYADH
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015 A000049 STANDARD CHARTERED BANK SINGAPORE BRANCH
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015 A000050 ING BANK NV, BRATISLAVA BRANCH
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015 C010050 BRATISLAVA
015 D010050 SLOVAKIA
015 E040050 X
015 A000051 STANDARD BANK OF SOUTH AFRICA LIMITED
015 B000051 S
015 C010051 JOHANNESBURG
015 D010051 SOUTH AFRICA
015 E040051 X
PAGE 8
015 A000052 DELETE
015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA
015 B000053 S
015 C010053 MADRID

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015 D010053 SPAIN
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015 A000054 HSBC, SRI LANKA BRANCH
015 B000054 S
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015 E040054 X
015 A000055 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
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015 C010055 STOCKHOLM
015 D010055 SWEDEN
015 E040055 X
015 A000056 CREDIT SUISSE AG
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015 C010056 ZURICH
015 D010056 SWITZERLAND
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015 C010057 TAIPEI
015 D010057 TAIWAN
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015 A000058 HSBC LIMITED, THAILAND BRANCH
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015 A000059 CITIBANK ANONIM SIRKETI
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015 C010059 ISTANBUL
015 D010059 TURKEY
015 E040059 X
015 A000060 HSBC BANK MIDDLE EAST LIMITED
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015 C010060 DUBAI
015 D010060 UNITED ARAB EMIRATES
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015 A000061 HSBC BANK PLC
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015 C010061 LONDON
015 D010061 UNITED KINGDOM
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015 A000062 CITIBANK, N.A., CARACAS BRANCH
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PAGE 9
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PAGE 14

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| 074 R020000 | 0 |
| 074 R030000 | 0 |
| 074 R040000 | 175 |
| 074 S000000 | 150000 |
| 074 T000000 | 284208 |
| 074 U010000 | 23543 |
| 074 U020000 | 0 |

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| | | |
|-----|---------|------------------------------|
| 074 | V010000 | 12.07 |
| 074 | V020000 | 0.00 |
| 074 | W000000 | 0.0000 |
| 074 | X000000 | 5526 |
| 074 | Y000000 | 0 |
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| 075 | B000000 | 286965 |
| 076 | 000000 | 14.60 |
| 077 | A000000 | Y |
| 077 | B000000 | Y |
| 077 | C000000 | N |
| 077 | D000000 | N |
| 077 | E000000 | N |
| 077 | F000000 | N |
| 077 | G000000 | N |
| 077 | H000000 | N |
| 077 | I000000 | N |
| 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 | 55 |
| 082 | A000000 | Y |
| 082 | B000000 | 0 |
| 083 | A000000 | N |
| 083 | B000000 | 0 |
| 084 | A000000 | N |
| 084 | B000000 | 0 |
| 085 | A000000 | N |
| | PAGE | 16 |
| 085 | B000000 | N |
| 086 | A010000 | 137 |
| 086 | A020000 | 1804 |
| 086 | B010000 | 0 |
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| 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 | 723762100 |
| 087 | A030000 | MAV |
| 087 | B010000 | PREFERRED STOCK - SERIES A |
| 087 | B020000 | 723762209 |
| 087 | C010000 | PREFERRED STOCK - SERIES B |
| 087 | C020000 | 723762308 |
| 088 | A000000 | N |
| 088 | B000000 | N |

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088 C000000 N

088 D000000 Y

SIGNATURE MARK E. BRADLEY

TITLE TREASURER