

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 30, 2013

PAGE 1
000 B000000 03/31/2013
000 C000000 0001258943
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000 I000000 6.1
000 J000000 U
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
005 000000 N
006 000000 N
007 A000000 N
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007 C010100 1
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007 C010600 6
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007 C010800 8
007 C010900 9
007 C011000 10
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
008 C000001 801-8255
008 D010001 BOSTON
008 D020001 MA
008 D030001 02109
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
010 B000001 801-8255
010 C010001 BOSTON
010 C020001 MA
010 C030001 02109
010 A000002 BROWN BROTHERS HARRIMAN & CO.
010 C010002 BOSTON
010 C020002 MA
010 C030002 02109
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
011 C010001 BOSTON
011 C020001 MA
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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 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
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012 C020001 MA
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
013 B020001 MA
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013 B040001 5072
015 A000001 BROWN BROTHERS HARRIMAN & CO.
PAGE 3
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015 B000002 S
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015 D010002 ARGENTINA
015 E040002 X
015 A000003 HSBC BANK AUSTRALIA LIMITED
015 B000003 S
015 C010003 SYDNEY
015 D010003 AUSTRALIA
015 E040003 X
015 A000004 EUROCLEAR BANK SA NV

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015 B000004 S
015 C010004 BRUSSELS
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015 E040004 X
015 A000005 CITIBANK, N.A., SAO PAULO
015 B000005 S
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015 D010005 BRAZIL
015 E040005 X
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015 B000006 S
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015 D010006 BULGARIA
015 E040006 X
015 A000007 RBC INVESTOR SERVICES TRUST
015 B000007 S
015 C010007 TORONTO
015 D010007 CANADA
015 E040007 X
015 A000008 BANCO DE CHILE
015 B000008 S
015 C010008 SANTIAGO
015 D010008 CHILE
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015 A000009 STANDARD CHARTERED BANK (CHINA) LIMITED
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015 D010009 CHINA
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015 A000010 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA
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015 C010010 BOGATA
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015 A000011 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
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015 A000012 STANDARD CHARTERED BANK GHANA LTD.
015 B000012 S
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015 A000013 STANDARD CHARTERED BANK (HONG KONG) LIMITED
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015 A000014 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE
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015 A000015 CITIBANK, N.A., JAKARTA BRANCH
015 B000015 S
015 C010015 JAKARTA
015 D010015 INDONESIA
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015 A000016 BANK HAPOALIM BM
015 B000016 S

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015 C010016 TEL AVIV
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015 A000017 SUMITOMO MITSU BANKING CORPORATION
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015 A000018 CFC STANBIC BANK LIMITED
015 B000018 S
015 C010018 NAIROBI
015 D010018 KENYA
015 E040018 X
015 A000019 HSBC BANK MALAYSIA BERHAD
015 B000019 S
015 C010019 KUALA LUMPUR
015 D010019 MALAYSIA
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015 A000020 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
015 B000020 S
015 C010020 SANTA FE
015 D010020 MEXICO
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015 A000021 CITIBANK MAGHREB
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PAGE 5
015 C010021 CASABLANCA
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015 E040021 X
015 A000022 STANBIC IBTC BANK PLC
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015 C010022 LAGOS
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015 E040023 X
015 A000024 CITIBANK DEL PERU S.A.
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015 D010024 PERU
015 E040024 X
015 A000025 HSBC LIMITED, PHILIPPINE BRANCH
015 B000025 S
015 C010025 TAGUIG CITY
015 D010025 PHILLIPINES
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015 A000026 BANK HANDLOWY W WARSZAWIE SA
015 B000026 S
015 C010026 WARSZAWA
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015 C010027 BUCHAREST
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015 A000028 ZAO CITIBANK
015 B000028 S
015 C010028 MOSCOW

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015 D010028 RUSSIA
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015 A000029 STANDARD CHARTERED BANK SINGAPORE BRANCH
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015 C010030 BRATISLAVA
015 D010030 SLOVAKIA
015 E040030 X
015 A000031 STANDARD BANK OF SOUTH AFRICA LIMITED
015 B000031 S
015 C010031 JOHANNESBURG
PAGE 6
015 D010031 SOUTH AFRICA
015 E040031 X
015 A000032 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
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015 A000033 CREDIT SUISSE AG
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015 A000035 CITIBANK ANONIM SIRKETI
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015 D010035 TURKEY
015 E040035 X
015 A000036 HSBC BANK PLC
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015 C010036 LONDON
015 D010036 UNITED KINGDOM
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015 A000037 UNICREDIT BANK AUSTRIA AG
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015 C010037 VIENNA
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015 A000038 BNP PARIBAS SECURITIES SERVICES
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015 C010039 VIENNA
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015 E040039 X
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015 C010040 COPENHAGEN
015 D010040 DENMARK

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015 E040040 X
015 A000041 CITIBANK, N.A., CAIRO BRANCH
015 B000041 S
015 C010041 CAIRO
015 D010041 EGYPT
PAGE 7
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015 A000042 NORDEA BANK FINLAND PLC
015 B000042 S
015 C010042 HELSINKI
015 D010042 FINLAND
015 E040042 X
015 A000043 BNP PARIBAS SECURITIES SERVICES
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015 C010043 PANTIN
015 D010043 FRANCE
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015 D010044 GERMANY
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015 A000045 HSBC BANK PLC, ATHENS BRANCH
015 B000045 S
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015 D010045 GREECE
015 E040045 X
015 A000046 CITIBANK, N.A., MUMBAI BRANCH
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015 C010046 MUMBAI
015 D010046 INDIA
015 E040046 X
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015 D010047 IRELAND
015 E040047 X
015 A000048 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH
015 B000048 S
015 C010048 MILAN
015 D010048 ITALY
015 E040048 X
015 A000049 HSBC BANK MIDDLE EAST CORPORATION
015 B000049 S
015 C010049 AMMAN
015 D010049 JORDAN
015 E040049 X
015 A000050 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH
015 B000050 S
015 C010050 SAFAT
015 D010050 KUWAIT
015 E040050 X
015 A000051 KBL EUROPEAN PRIVATE BANKERS SA
015 B000051 S
015 C010051 LUXEMBOURG
015 D010051 LUXEMBOURG
015 E040051 X
PAGE 8
015 A000052 BNP PARIBAS SECURITIES SERVICES
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015 C010052 PANTIN
015 D010052 NETHERLANDS

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015 E040052 X
015 A000053 HSBC LIMITED, NEW ZEALAND BRANCH
015 B000053 S
015 C010053 AUCKLAND
015 D010053 NEW ZEALAND
015 E040053 X
015 A000054 BNP PARIBAS SECURITIES SERVICES
015 B000054 S
015 C010054 PANTIN
015 D010054 PORTUGAL
015 E040054 X
015 A000055 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH
015 B000055 S
015 C010055 ST. HELIER
015 D010055 QATAR
015 E040055 X
015 A000056 HSBC SAUDI ARABIA LIMITED
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015 C010056 RIYADH
015 D010056 SAUDI ARABIA
015 E040056 X
015 A000057 CITIBANK KOREA INC
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015 C010057 SEOUL
015 D010057 SOUTH KOREA
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015 A000058 BANCO BILBAO VIZCAYA AREGENTARIA SA
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015 C010058 MADRID
015 D010058 SPAIN
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015 A000059 HSBC, SRI LANKA BRANCH
015 B000059 S
015 C010059 COLOMBO
015 D010059 SRI LANKA
015 E040059 X
015 A000060 BANK OF TAIWAN
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015 C010060 TAIPEI
015 D010060 TAIWAN
015 E040060 X
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
PAGE 9
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015 D010062 VENEZUELA
015 E040062 X
015 A000063 HSBC BANK (VIETNAM) LTD
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015 C010063 HO CHI MINH CITY
015 D010063 VIETNAM
015 E040063 X
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019 A000000 Y
019 B000000 57
019 C000000 PIONEERFDS
020 A000001 SANFORD C. BERNSTEIN & CO., LLC

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020 C000001 2430
020 A000002 UBS SECURITIES LLC
020 B000002 13-3873456
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020 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
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022 A000004 RBC CAPITAL MARKETS, LLC
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022 A000006 BLACKROCK INVESTMENTS, LLC
022 B000006 13-3806694
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022 A000007 OPPENHEIMER & CO. INC.
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022 A000008 CLEARVIEW TRADING ADVISORS, INC.
022 B000008 14-1981175
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022 A000009 MESIROW FINANCIAL, INC.
022 B000009 36-3194849
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022 A000010 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
022 B000010 13-5674085
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| 077 | L000000 | N |
| 077 | M000000 | N |
| 077 | N000000 | N |
| 077 | O000000 | N |
| 077 | P000000 | N |
| 077 | Q010000 | N |
| 077 | Q020000 | N |
| 077 | Q030000 | N |
| | PAGE | 16 |
| 078 | 000000 | N |
| 080 | A000000 | ICI MUTUAL INSURANCE COMPANY |
| 080 | C000000 | 45000 |
| 081 | A000000 | Y |
| 081 | B000000 | 57 |
| 082 | A000000 | Y |
| 082 | B000000 | 0 |
| 083 | A000000 | N |
| 083 | B000000 | 0 |
| 084 | A000000 | N |
| 084 | B000000 | 0 |
| 085 | A000000 | N |
| 085 | B000000 | N |
| 086 | A010000 | 149 |
| 086 | A020000 | 1961 |
| 086 | B010000 | 0 |
| 086 | B020000 | 0 |
| 086 | C010000 | 0 |
| 086 | C020000 | 0 |
| 086 | D010000 | 0 |
| 086 | D020000 | 0 |
| 086 | E010000 | 0 |

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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
088 C000000 N
088 D000000 Y
SIGNATURE MARK E. BRADLEY
TITLE TREASURER