

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 28, 2014

PAGE 1
000 A000000 09/30/2014
000 C000000 0001258943
000 D000000 N
000 E000000 NF
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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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007 C010100 1
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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
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
010 B000001 801-8255
010 C010001 BOSTON
010 C020001 MA
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010 A000002 BROWN BROTHERS HARRIMAN & CO.
010 C010002 BOSTON
010 C020002 MA
010 C030002 02110
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
011 C010001 BOSTON
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PAGE 2
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 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 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 DELOITTE & TOUCHE LLP
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PAGE 3
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015 A000003 HSBC BANK AUSTRALIA LIMITED
015 B000003 S
015 C010003 SYDNEY
015 D010003 AUSTRALIA
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015 A000004 UNICREDIT BANK AUSTRIA AG
015 B000004 S

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015 C010004 VIENNA
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015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH
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015 A000007 BNP PARIBAS SECURITIES SERVICES
015 B000007 S
015 C010007 PANTIN
015 D010007 BELGIUM
015 E040007 X
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015 B000008 S
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015 D010008 BRAZIL
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015 A000011 BANCO DE CHILE
015 B000011 S
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015 B000012 S
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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 D010016 EGYPT
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015 A000017 NORDEA BANK FINLAND PLC
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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 D010021 GREECE
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 D010026 IRELAND
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015 A000027 BANK HAPOALIM BM
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015 D010027 ISRAEL
015 E040027 X
015 A000028 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH
015 B000028 S
015 C010028 MILAN
015 D010028 ITALY

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015 E040028 X
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 D010036 MOROCCO
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015 E040039 X
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015 C010040 OSLO
015 D010040 NORWAY
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015 A000041 CITIBANK DEL PERU S.A.
015 B000041 S
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PAGE 7
015 A000042 HSBC LIMITED, PHILIPPINE BRANCH
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015 E040042 X
015 A000043 BANK HANDLOWY W WARSZAWIE SA
015 B000043 S
015 C010043 WARSAW
015 D010043 POLAND
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015 A000045 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH
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015 D010045 QATAR
015 E040045 X
015 A000046 CITIBANK EUROPE PLC, DUBLIN-SUCURSALA ROMANIA
015 B000046 S
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015 E040046 X
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 A000050 ING BANK NV, BRATISLAVA BRANCH
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015 E040050 X
015 A000051 STANDARD BANK OF SOUTH AFRICA LIMITED
015 B000051 S
015 C010051 JOHANNESBURG
015 D010051 SOUTH AFRICA
015 E040051 X
015 A000052 CITIBANK KOREA INC.
PAGE 8
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015 D010052 SOUTH KOREA
015 E040052 X

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015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA
015 B000053 S
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015 A000054 HSBC, SRI LANKA BRANCH
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015 C010054 COLOMBO
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015 E040054 X
015 A000055 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
015 B000055 S
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 A000057 BANK OF TAIWAN
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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 A000060 HSBC BANK MIDDLE EAST LIMITED
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015 C010060 DUBAI
015 D010060 UNITED ARAB EMIRATES
015 E040060 X
015 A000061 HSBC BANK PLC
015 B000061 S
015 C010061 LONDON
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015 A000062 CITIBANK, N.A., CARACAS BRANCH
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PAGE 9
015 C010062 CARACAS
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022 A000003 BROWN BROTHERS HARRIMAN & CO.
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022 A000004 BLACKROCK ADVISORS LLC
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022 A000008 RAYMOND JAMES (USA) LTD.
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022 A000009 MORGAN STANLEY LLC
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071 B000000 73489

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| 077 | H000000 | N |
| 077 | I000000 | N |
| 077 | J000000 | N |
| 077 | K000000 | Y |
| 077 | L000000 | N |
| 077 | M000000 | N |
| 077 | N000000 | N |
| 077 | O000000 | N |
| 077 | P000000 | N |
| 077 | Q010000 | Y |
| 077 | Q020000 | N |
| 077 | Q030000 | N |
| 078 | 000000 | N |
| 080 | C000000 | 0 |
| 081 | B000000 | 0 |
| 082 | A000000 | Y |
| 082 | B000000 | 0 |
| 083 | A000000 | N |
| 083 | B000000 | 0 |
| 084 | A000000 | N |
| 084 | B000000 | 0 |
| | PAGE | 16 |
| 085 | A000000 | N |
| 085 | B000000 | N |
| 086 | A010000 | 68 |
| 086 | A020000 | 986 |
| 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 | 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 |

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088 B000000 N
088 C000000 N
088 D000000 Y
SIGNATURE MARK E. BRADLEY
TITLE TREASURER