

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 27, 2013

PAGE 1  
000 A000000 09/30/2013  
000 C000000 0001258943  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
000 J000000 A  
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  
007 B000000 0  
007 C010100 1  
007 C010200 2  
007 C010300 3  
007 C010400 4  
007 C010500 5  
007 C010600 6  
007 C010700 7  
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  
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  
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  
013 B030001 02116  
013 B040001 5072  
015 A000001 BROWN BROTHERS HARRIMAN & CO.  
PAGE 3  
015 B000001 C  
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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  
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  
015 D010004 AUSTRIA  
015 E040004 X  
015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH  
015 B000005 S  
015 C010005 DHAKA  
015 D010005 BANGLADESH  
015 E040005 X  
015 A000006 EUROCLEAR BANK SA NV  
015 B000006 S  
015 C010006 BRUSSELS  
015 D010006 BELGIUM  
015 E040006 X  
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  
015 E040008 X  
015 A000009 ING BANK, N.V., SOFIA BRANCH  
015 B000009 S  
015 C010009 SOFIA  
015 D010009 BULGARIA  
015 E040009 X  
015 A000010 RBC INVESTOR SERVICES TRUST  
015 B000010 S  
015 C010010 TORONTO  
015 D010010 CANADA  
015 E040010 X  
015 A000011 BANCO DE CHILE  
PAGE 4  
015 B000011 S  
015 C010011 SANTIAGO  
015 D010011 CHILE  
015 E040011 X  
015 A000012 STANDARD CHARTERED BANK (CHINA) LTD.  
015 B000012 S  
015 C010012 SHANGHAI  
015 D010012 CHINA  
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015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA  
015 B000013 S  
015 C010013 BOGATA  
015 D010013 COLOMBIA  
015 E040013 X  
015 A000014 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
015 B000014 S  
015 C010014 PRAGUE  
015 D010014 CZECH REPUBLIC  
015 E040014 X  
015 A000015 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)  
015 B000015 S  
015 C010015 COPENHAGEN  
015 D010015 DENMARK  
015 E040015 X  
015 A000016 CITIBANK, N.A., CAIRO BRANCH  
015 B000016 S

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015 C010016 CAIRO  
015 D010016 EGYPT  
015 E040016 X  
015 A000017 NORDEA BANK FINLAND PLC  
015 B000017 S  
015 C010017 HELSINKI  
015 D010017 FINLAND  
015 E040017 X  
015 A000018 BNP PARIBAS SECURITIES SERVICES  
015 B000018 S  
015 C010018 PARIS  
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015 E040018 X  
015 A000019 BNP PARIBAS SECURITIES SERVICES  
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015 C010019 FRANKFURT  
015 D010019 GERMANY  
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015 A000020 STANDARD CHARTERED BANK GHANA LTD.  
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015 D010020 GHANA  
015 E040020 X  
015 A000021 HSBC BANK PLC, ATHENS BRANCH  
015 B000021 S  
PAGE 5  
015 C010021 ATHENS  
015 D010021 GREECE  
015 E040021 X  
015 A000022 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
015 B000022 S  
015 C010022 KWUN TONG  
015 D010022 HONG KONG  
015 E040022 X  
015 A000023 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
015 B000023 S  
015 C010023 BUDAPEST  
015 D010023 HUNGARY  
015 E040023 X  
015 A000024 CITIBANK, N.A., MUMBAI BRANCH  
015 B000024 S  
015 C010024 MUMBAI  
015 D010024 INDIA  
015 E040024 X  
015 A000025 CITIBANK, N.A., JAKARTA BRANCH  
015 B000025 S  
015 C010025 JAKARTA  
015 D010025 INDONESIA  
015 E040025 X  
015 A000026 CITIBANK, NA., LONDON BRANCH  
015 B000026 S  
015 C010026 LONDON  
015 D010026 IRELAND  
015 E040026 X  
015 A000027 BANK HAPOALIM BM  
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  
015 C010029 TOKYO  
015 D010029 JAPAN  
015 E040029 X  
015 A000030 HSBC BANK MIDDLE EAST LIMITED, JORDAN BRANCH  
015 B000030 S  
015 C010030 AMMAN  
015 D010030 JORDAN  
015 E040030 X  
015 A000031 CFC STANBIC BANK LIMITED  
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PAGE 6  
015 D010031 KENYA  
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015 C010032 SAFAT  
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015 E040032 X  
015 A000033 KBL EUROPEAN PRIVATE BANKERS SA  
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015 D010033 LUXEMBOURG  
015 E040033 X  
015 A000034 HSBC BANK MALAYSIA BERHAD  
015 B000034 S  
015 C010034 KUALA LUMPUR  
015 D010034 MALAYSIA  
015 E040034 X  
015 A000035 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
015 B000035 S  
015 C010035 MEXICO CITY  
015 D010035 MEXICO  
015 E040035 X  
015 A000036 CITIBANK MAGHREB  
015 B000036 S  
015 C010036 CASABLANCA  
015 D010036 MOROCCO  
015 E040036 X  
015 A000037 BNP PARIBAS SECURITIES SERVICES  
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015 C010037 PANTIN  
015 D010037 NETHERLANDS  
015 E040037 X  
015 A000038 HSBC LIMITED, NEW ZEALAND BRANCH  
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015 C010038 AUCKLAND  
015 D010038 NEW ZEALAND  
015 E040038 X  
015 A000039 STANBIC IBTC BANK PLC  
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015 C010039 LAGOS  
015 D010039 NIGERIA  
015 E040039 X  
015 A000040 NORDEA BANK NORGE ASA  
015 B000040 S  
015 C010040 OSLO  
015 D010040 NORWAY

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015 E040040 X  
015 A000041 CITIBANK DEL PERU S.A.  
015 B000041 S  
015 C010041 LIMA  
015 D010041 PERU  
PAGE 7  
015 E040041 X  
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015 D010042 PHILIPPINES  
015 E040042 X  
015 A000043 BANK HANDLOWY W WARSZAWIE SA  
015 B000043 S  
015 C010043 WARSAW  
015 D010043 POLAND  
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015 A000044 BNP PARIBAS SECURITIES SERVICES  
015 B000044 S  
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015 E040044 X  
015 A000045 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH  
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015 C010045 ST. HELIER  
015 D010045 QATAR  
015 E040045 X  
015 A000046 ING BANK N.V., BUCHAREST BRANCH  
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015 C010046 BUCHAREST  
015 D010046 ROMANIA  
015 E040046 X  
015 A000047 ZAO CITIBANK  
015 B000047 S  
015 C010047 MOSCOW  
015 D010047 RUSSIA  
015 E040047 X  
015 A000048 HSBC SAUDI ARABIA LIMITED  
015 B000048 S  
015 C010048 RIYADH  
015 D010048 SAUDI ARABIA  
015 E040048 X  
015 A000049 STANDARD CHARTERED BANK SINGAPORE BRANCH  
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015 D010049 SINGAPORE  
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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 CITIBANK KOREA INC  
015 B000052 S  
015 C010052 SEOUL  
015 D010052 SOUTH KOREA

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015 E040052 X  
015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA  
015 B000053 S  
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015 D010053 SPAIN  
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015 C010055 STOCKHOLM  
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015 D010056 SWITZERLAND  
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015 C010061 LONDON  
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015 A000063 HSBC BANK (VIETNAM) LTD  
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015 D010063 VIETNAM  
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015 A000064 UNICREDIT BANK AUSTRIA AG  
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015 C010064 VIENNA  
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 022 B000002 23-2384977  
 022 C000002 14350  
 022 D000002 4533  
 022 A000003 ROYAL BANK OF CANADA  
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 022 C000003 5281  
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 022 A000004 GEORGE K. BAUM & COMPANY  
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| 071 | B000000 | 76489  |
| 071 | C000000 | 439334 |
| 071 | D000000 | 14     |
| 072 | A000000 | 6      |
| 072 | B000000 | 14585  |
|     | PAGE    | 14     |
| 072 | C000000 | 0      |
| 072 | D000000 | 0      |

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|             |        |
|-------------|--------|
| 072 E000000 | 0      |
| 072 F000000 | 1344   |
| 072 G000000 | 103    |
| 072 H000000 | 0      |
| 072 I000000 | 12     |
| 072 J000000 | 3      |
| 072 K000000 | 0      |
| 072 L000000 | 9      |
| 072 M000000 | 6      |
| 072 N000000 | 1      |
| 072 O000000 | 0      |
| 072 P000000 | 0      |
| 072 Q000000 | 0      |
| 072 R000000 | 27     |
| 072 S000000 | 17     |
| 072 T000000 | 0      |
| 072 U000000 | 0      |
| 072 V000000 | 0      |
| 072 W000000 | 230    |
| 072 X000000 | 1752   |
| 072 Y000000 | 0      |
| 072 Z000000 | 12833  |
| 072AA000000 | 2622   |
| 072BB000000 | 0      |
| 072CC010000 | 0      |
| 072CC020000 | 39186  |
| 072DD010000 | 13357  |
| 072DD020000 | 0      |
| 072EE000000 | 0      |
| 073 A010000 | 0.5700 |
| 073 A020000 | 0.0000 |
| 073 B000000 | 0.0000 |
| 073 C000000 | 0.0000 |
| 074 A000000 | 3568   |
| 074 B000000 | 0      |
| 074 C000000 | 0      |
| 074 D000000 | 419127 |
| 074 E000000 | 0      |
| 074 F000000 | 0      |
| 074 G000000 | 0      |
| 074 H000000 | 0      |
| 074 I000000 | 0      |
| 074 J000000 | 0      |
| 074 K000000 | 0      |
| 074 L000000 | 8118   |
| 074 M000000 | 150    |
| 074 N000000 | 430963 |
| 074 O000000 | 0      |
| 074 P000000 | 208    |
| PAGE 15     |        |
| 074 Q000000 | 0      |
| 074 R010000 | 0      |
| 074 R020000 | 0      |
| 074 R030000 | 0      |
| 074 R040000 | 211    |
| 074 S000000 | 150000 |
| 074 T000000 | 280544 |
| 074 U010000 | 23474  |
| 074 U020000 | 0      |
| 074 V010000 | 11.95  |
| 074 V020000 | 0.00   |
| 074 W000000 | 0.0000 |

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|           |                 |                            |
|-----------|-----------------|----------------------------|
| 074       | X000000         | 6216                       |
| 074       | Y000000         | 0                          |
| 075       | A000000         | 0                          |
| 075       | B000000         | 296812                     |
| 076       | 000000          | 13.43                      |
| 077       | A000000         | N                          |
| 078       | 000000          | N                          |
| 080       | C000000         | 0                          |
| 081       | B000000         | 0                          |
| 082       | B000000         | 0                          |
| 083       | B000000         | 0                          |
| 084       | B000000         | 0                          |
| 086       | A010000         | 67                         |
| 086       | A020000         | 905                        |
| 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                          |
| 088       | B000000         | N                          |
| 088       | C000000         | N                          |
| 088       | D000000         | Y                          |
| SIGNATURE | MARK E. BRADLEY |                            |
| TITLE     | TREASURER       |                            |