

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 27, 2013

PAGE 1
000 A000000 09/30/2013
000 C000000 0001258943
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001 B000000 811-21409
001 C000000 6177427825
002 A000000 60 STATE STREET
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002 C000000 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
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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 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
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013 A000001 ERNST & YOUNG, LLP
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015 A000003 HSBC BANK AUSTRALIA LIMITED
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015 C010003 SYDNEY
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015 A000004 UNICREDIT BANK AUSTRIA AG

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015 A000016 CITIBANK, N.A., CAIRO BRANCH
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015 C010016 CAIRO
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015 D010028 ITALY
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015 A000052 CITIBANK KOREA INC
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015 D010055 SWEDEN
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015 A000056 CREDIT SUISSE AG
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015 C010056 ZURICH
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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 |
| 088 | C000000 | N |
| 088 | D000000 | Y |
| SIGNATURE | MARK E. BRADLEY | |
| TITLE | TREASURER | |