

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 29, 2009

PAGE 1
000 B000000 03/31/2009
000 C000000 1258943
000 D000000 N
000 E000000 NF
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000 I000000 6.1
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002 A000000 60 STATE STREET
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
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PAGE 2
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011 A000002 UBS INVESTMENT BANK
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011 C010002 STAMFORD

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011 C020002 CT
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011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
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011 A000004 MERRILL LYNCH & CO.
011 B000004 8-7221
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
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011 C010005 PHILADELPHIA
011 C020005 PA
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011 A000006 WACHOVIA CAPITAL MARKETS, LLC
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012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SER. INC.
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO.
012 B000002 85-00000
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
012 B000003 85-00000
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012 C020003 NY
012 C030003 10005
013 A000001 ERNST & YOUNG, LLP
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015 A000001 BROWN BROTHERS HARRIMAN & CO.
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 022 A000006 PIPER JAFFRAY & CO.
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 022 A000007 B.C. ZIEGLER AND CO.
 022 B000007 39-0727640
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 022 A000008 RAYMOND JAMES & ASSOCIATES, INC.
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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 MARY KELLERMANN
TITLE ACCOUNTING MANAGER