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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 27, 2007

PAGE 1
000 A000000 10/31/2007
000 C000000 0001223026
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
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010 A000002 PRINCETON ADMINISTRATORS, LLC
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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 WARBURG
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011 C020002 CT

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011 A000003 RBC CAPITAL MARKETS
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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 MCDONALD INVESTMENTS, INC.
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011 A000007 STIFEL, NICOLAUS & COMPANY, INC.
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012 A000001 PIONEER INVESTMENT MGT. SHAREHOLDER SERVICES
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
012 B000003 85-00000
012 C010003 NEW YORK
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013 A000001 ERNST & YOUNG LLP
PAGE 3
013 B010001 BOSTON
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015 A000001 BROWN BROTHERS HARRIMAN & CO.
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022 A000005 PIPER JAFFRAY & CO.
022 B000005 41-0953246
022 C000005 7859
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022 A000006 HERBERT J. SIMS & CO., INC.
022 B000006 13-5213180
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022 A000009 BEAR, STEARNS & CO., INC.
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022 A000010 RAYMOND JAMES & ASSOCIATES, INC.
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	