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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
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000 H000000 N
000 I000000 6.1
000 J000000 A
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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010 A000002 PRINCETON ADMINISTRATORS, LLC
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
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PAGE 2
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
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011 C010005 PHILADELPHIA
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011 A000006 MCDONALD INVESTMENTS, INC.
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011 A000007 STIFEL, NICOLAUS & COMPANY, INC.
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011 C030007 63102
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
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PAGE 3
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	