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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 22, 2006

PAGE 1  
000 A000000 10/31/2006  
000 C000000 0001223026  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
000 J000000 A  
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001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
002 B000000 BOSTON  
002 C000000 MA  
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008 B000001 A  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 C010001 BOSTON  
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010 A000002 PRINCETON ADMINISTRATORS, LLC  
010 C010002 PRINCETON  
010 C020002 NJ  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
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011 C010001 BOSTON  
PAGE 2  
011 C020001 MA  
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011 A000002 UBS WARBURG  
011 B000002 8-022651  
011 C010002 STAMFORD  
011 C020002 CT

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011 C010003 MINNEAPOLIS  
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011 A000004 ADVEST, INC.  
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011 C010004 HARTFORD  
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011 A000005 JANNEY MONTGOMERY SCOTT LLC  
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011 C010005 PHILADELPHIA  
011 C020005 PA  
011 C030005 19103  
011 C040005 1675  
011 A000006 MCDONALD INVESTMENTS INC.  
011 B000006 8-30177  
011 C010006 CLEVELAND  
011 C020006 OH  
011 C030006 44114  
011 C040006 2603  
011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED  
011 B000007 8-001447  
011 C010007 ST. LOUIS  
011 C020007 MO  
011 C030007 63102  
012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.  
012 B000001 85-00000  
012 C010001 BOSTON  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)  
012 B000002 85-00000  
012 C010002 BROOKLYN  
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)  
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012 C010003 NEW YORK  
012 C020003 NY  
012 C030003 10005  
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 A000003 LEHMAN BROTHERS INC.  
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022 A000004 HERBERT J. SIMS & CO., INC.  
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022 A000005 WACHOVIA SECURITIES, LLC  
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022 A000006 B.C. ZIEGLER AND COMPANY  
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022 A000007 CORBY CAPITAL MARKETS, INC.  
022 B000007 52-1037969  
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022 C000007 0  
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	