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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 28, 2007

PAGE 1  
000 B000000 04/30/2007  
000 C000000 0001223026  
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000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
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001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
008 C000001 801-8255  
008 D010001 BOSTON  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
010 B000001 801-8255  
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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  
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 C030002 06901  
011 A000003 RBC CAPITAL MARKETS  
011 B000003 8-045411  
011 C010003 MINNEAPOLIS  
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011 A000004 ADVEST, INC.  
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011 A000005 JANNEY MONTGOMERY SCOTT LLC  
011 B000005 8-462  
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  
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011 C010007 ST. LOUIS  
011 C020007 MO  
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012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.  
012 B000001 85-00000  
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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.)  
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012 C010003 NEW YORK  
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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.  
022 B000004 13-5213180  
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022 A000005 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC.  
022 B000005 13-5674085  
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022 A000006 B.C. ZIEGLER AND CO.  
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022 A000007 WACHOVIA SECURITIES, LLC  
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022 A000008 CORBY CAPITAL MARKETS, INC.  
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PAGE 6

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087	A020000	723763108
087	A030000	MHI
087	B010000	PREFERRED STOCK - SERIES A
087	B020000	723763207

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087 C010000 PREFERRED STOCK - SERIES B  
087 C020000 723763306  
088 A000000 N  
088 B000000 N  
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088 D000000 Y  
SIGNATURE MARY KELLERMANN  
TITLE ACCOUNTING MANAGER