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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 27, 2008

PAGE 1  
000 B000000 04/30/2008  
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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001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
002 B000000 BOSTON  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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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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011 C020001 MA  
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011 A000002 UBS INVESTMENT BANK  
011 B000002 8-022651  
011 C010002 STAMFORD  
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011 C030002 06901  
011 A000003 RBC CAPITAL MARKETS CORP.  
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011 C010003 MINNEAPOLIS  
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011 A000004 ADVEST, INC.  
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011 C010005 PHILADELPHIA  
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011 A000006 MCDONALD INVESTMENTS, INC.  
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011 C010006 CLEVELAND  
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011 C030006 44114  
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011 B000007 8-001447  
011 C010007 ST. LOUIS  
011 C020007 MO  
011 C030007 63102  
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.  
012 B000001 85-01359  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)  
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012 C010002 BROOKLYN  
012 C020002 NY  
012 C030002 11219  
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)  
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013 A000001 ERNST & YOUNG LLP  
PAGE 3  
013 B010001 BOSTON  
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087	B010000	PREFERRED STOCK - SERIES A
087	B020000	723763207
087	C010000	PREFERRED STOCK - SERIES B
087	C020000	723763306

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088 A000000 N

088 B000000 N

088 C000000 N

088 D000000 Y

SIGNATURE MARY KELLERMANN

TITLE ACCOUNTING MANAGER