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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 28, 2007

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000 B000000 04/30/2007
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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001 B000000 811-21321
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
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PAGE 2
011 C020001 MA
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011 C030005 19103
011 C040005 1675
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011 C020006 OH
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011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED
011 B000007 8-001447
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011 C030007 63102
012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.
012 B000001 85-00000
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
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012 C010002 BROOKLYN
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012 C030002 11219
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
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012 C010003 NEW YORK
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013 A000001 ERNST & YOUNG LLP
PAGE 3
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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.
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 022 A000007 WACHOVIA SECURITIES, LLC
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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
088 C000000 N
088 D000000 Y
SIGNATURE MARY KELLERMANN
TITLE ACCOUNTING MANAGER