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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
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000 H000000 N
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
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PAGE 2
011 C020001 MA
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011 A000005 JANNEY MONTGOMERY SCOTT LLC
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011 C030005 19103
011 C040005 1675
011 A000006 MCDONALD INVESTMENTS INC.
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011 C010006 CLEVELAND
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011 C030006 44114
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011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED
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011 C020007 MO
011 C030007 63102
012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
012 B000002 85-00000
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012 C030002 11219
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PAGE 3
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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