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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 27, 2005

PAGE 1
000 B000000 04/30/2005
000 C000000 1223026
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
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010 A000002 PRINCETON ADMINISTRATORS, L.P.
010 C010002 PRINCETON
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
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PAGE 2
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011 C010002 STAMFORD
011 C020002 CT

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011 A000006 MCDONALD INVESTMENTS INC.
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012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.
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012 A000002 MELLON INVESTOR SERVICES LLC (COMMON)
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
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013 A000001 ERNST & YOUNG LLP
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087	C020000	723763306
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088	C000000	N
088	D000000	Y

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SIGNATURE MARY KELLERMANN
TITLE ACCOUNTING MANAGER