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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 27, 2005

PAGE 1
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000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
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PAGE 2
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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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013 A000001 ERNST & YOUNG LLP
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 022 A000007 RAYMOND JAMES & ASSOCIATES, INC.
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 022 D000007 3852
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PAGE 7

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PAGE 8

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PAGE 9

SIGNATURE MARY KELLERMANN
TITLE ACCOUNTING MANAGER