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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 27, 2006

PAGE 1
000 B000000 04/30/2006
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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001 B000000 811-21321
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002 A000000 60 STATE STREET
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
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PAGE 2
011 C020001 MA
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011 A000002 UBS WARBURG
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011 C010002 STAMFORD
011 C020002 CT

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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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 013 B010001 BOSTON
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087	C020000	723763306
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	