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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 22, 2006

PAGE 1
000 A000000 10/31/2006
000 C000000 0001223026
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 A
001 A000000 PIONEER MUNICIPAL HIGH INCOME TRUST
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010 A000002 PRINCETON ADMINISTRATORS, LLC
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010 C040002 9095
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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 011 C010006 CLEVELAND
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 011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED
 011 B000007 8-001447
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 011 C020007 MO
 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)
 012 B000002 85-00000
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 012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
 012 B000003 85-00000
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 012 C030003 10005
 013 A000001 ERNST & YOUNG LLP
 PAGE 3
 013 B010001 BOSTON
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 015 A000001 BROWN BROTHERS HARRIMAN & CO.
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087	B010000	PREFERRED STOCK - SERIES A
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087	C020000	723763306
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088	C000000	N
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	