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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 27, 2007

PAGE 1
000 A000000 10/31/2007
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
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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 C010007 ST. LOUIS
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 011 C030007 63102
 012 A000001 PIONEER INVESTMENT MGT. SHAREHOLDER SERVICES
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 012 B000003 85-00000
 012 C010003 NEW YORK
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 013 A000001 ERNST & YOUNG LLP
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 013 B010001 BOSTON
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 015 A000001 BROWN BROTHERS HARRIMAN & CO.
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087	C010000	PREFERRED STOCK - SERIES B
087	C020000	723763306
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088	D000000	Y
SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	