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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 29, 2005

PAGE 1
000 A000000 10/31/2005
000 C000000 1223026
000 D000000 N
000 E000000 NF
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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
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 C030002 06901
011 A000003 RBC CAPITAL MARKETS
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011 C010003 MINNEAPOLIS
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011 A000005 JANNEY MONTGOMERY SCOTT LLC
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011 C030005 19103
011 C040005 1675
011 A000006 MCDONALD INVESTMENTS INC.
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011 C040006 2603
011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED
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011 C030007 63102
012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.
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012 B000003 85-00000
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013 A000001 ERNST & YOUNG LLP
PAGE 3
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PAGE 7

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PAGE 8

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088	D000000	Y
SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	