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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 29, 2009

PAGE 1
000 A000000 10/31/2009
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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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
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008 D020001 MA
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010 B000001 801-8255
010 C010001 BOSTON
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010 A000002 PRINCETON ADMINISTRATORS, LLC
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010 C040002 9095
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
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PAGE 2
011 C020001 MA
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011 A000002 UBS INVESTMENT BANK
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011 C010002 STAMFORD
011 C020002 CT

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011 C030002 06901
011 A000003 RBC CAPITAL MARKETS CORP.
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011 A000004 ADVEST, INC.
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 MCDONALD INVESTMENTS, INC.
011 B000006 8-30177
011 C010006 CLEVELAND
011 C020006 OH
011 C030006 44114
011 C040006 2603
011 A000007 STIFEL, NICOLAUS & CO., INC.
011 B000007 8-001447
011 C010007 ST. LOUIS
011 C020007 MO
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012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
012 B000001 85-01359
012 C010001 BOSTON
012 C020001 MA
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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
012 C010003 NEW YORK
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013 A000001 ERNST & YOUNG LLP
PAGE 3
013 B010001 BOSTON
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015 A000001 BROWN BROTHERS HARRIMAN & CO.
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 022 A000004 RAYMOND JAMES & ASSOCIATES, INC.
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 022 A000007 D.A. DAVIDSON & CO.
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 022 A000008 MCMAHAN SECURITIES CO., LP
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087	C010000	PREFERRED STOCK - SERIES B
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	