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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
001 A000000 PIONEER MUNICIPAL HIGH INCOME TRUST
001 B000000 811-21321
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
003 000000 N
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005 000000 N
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007 B000000 0
007 C010100 1
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007 C010400 4
007 C010500 5
007 C010600 6
007 C010700 7
007 C010800 8
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007 C011000 10
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
008 C000001 801-8255
008 D010001 BOSTON
008 D020001 MA
008 D030001 02109
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
010 B000001 801-8255
010 C010001 BOSTON
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010 A000002 PRINCETON ADMINISTRATORS, LLC
010 C010002 PRINCETON
010 C020002 NJ
010 C030002 08543
010 C040002 9095
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
011 C010001 BOSTON
PAGE 2
011 C020001 MA
011 C030001 02109
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT

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011 C030002 06901
011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
011 C010003 MINNEAPOLIS
011 C020003 MN
011 C030003 55402
011 C040003 4422
011 A000004 ADVEST, INC.
011 B000004 8-21409
011 C010004 HARTFORD
011 C020004 CT
011 C030004 06103
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
011 C030007 63102
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
012 B000001 85-01359
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012 C020001 MA
012 C030001 02109
012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
012 B000002 85-00000
012 C010002 BROOKLYN
012 C020002 NY
012 C030002 11219
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
012 B000003 85-00000
012 C010003 NEW YORK
012 C020003 NY
012 C030003 10005
013 A000001 ERNST & YOUNG LLP
PAGE 3
013 B010001 BOSTON
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019 B000000 62
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| 022 | A000006 | BB&T AM DISTRIBUTORS, INC. |
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| 022 | A000007 | D.A. DAVIDSON & CO. |
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| 022 | A000008 | MCPMAHAN SECURITIES CO., LP |
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072 F000000 1128
 072 G000000 197
 072 H000000 0
 072 I000000 21
 072 J000000 7

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072 K000000 0
 072 L000000 15
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 074 R020000 0
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 074 T000000 292072
 074 U010000 22177

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074 U020000 0
 074 V010000 13.17
 074 V020000 0.00
 074 W000000 0.0000

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| 075 | B000000 | 272100 |
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| 078 | 000000 | N |
| 080 | A000000 | ICI MUTUAL INSURANCE CO. |
| 080 | C000000 | 45000 |
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| 081 | B000000 | 62 |
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| 086 | E020000 | 0 |
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| 087 | A010000 | COMMON STOCK |
| 087 | A020000 | 723763108 |
| 087 | A030000 | MHI |
| 087 | B010000 | PREFERRED STOCK - SERIES A |
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| 088 | D000000 | Y |
| SIGNATURE | MARY KELLERMANN | |
| TITLE | ACCOUNTING MANAGER | |