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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 30, 2010

PAGE 1
000 A000000 10/31/2010
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
004 000000 N
005 000000 N
006 000000 N
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007 B000000 0
007 C010100 1
007 C010200 2
007 C010300 3
007 C010400 4
007 C010500 5
007 C010600 6
007 C010700 7
007 C010800 8
007 C010900 9
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
010 C020001 MA
010 C030001 02109
010 A000002 STATE STREET BANK & TRUST COMPANY
010 C010002 BOSTON
010 C020002 MA
010 C030002 02101
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
011 C010001 BOSTON
011 C020001 MA
PAGE 2
011 C030001 02109
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT
011 C030002 06901

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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
012 C010001 BOSTON
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
013 B010001 BOSTON
PAGE 3
013 B020001 MA
013 B030001 02116
013 B040001 5072
015 A000001 BROWN BROTHERS HARRIMAN & CO.
015 B000001 C
015 C010001 BOSTON
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015 E010001 X
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019 B000000 57
019 C000000 PIONEERFDS
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| 022 | A000001 | BLACKROCK LIQUIDITY FUNDS, MUNIFUND |
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| 022 | B000002 | 39-0727640 |
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| 022 | A000004 | JEFFERIES & COMPANY, INC. |
| 022 | B000004 | 95-2622900 |
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| 022 | A000005 | PIPER JAFFRAY & CO. |
| 022 | B000005 | 41-0953246 |
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| 022 | A000006 | FMBONDS, INC. |
| 022 | B000006 | 59-1842344 |
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| 022 | A000007 | RBC CAPITAL MARKETS CORPORATION |
| 022 | B000007 | 13-5033225 |
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| 054 | A000000 | Y | |
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| 054 | C000000 | Y | |
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| 072 | F000000 | 1310 |

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072 G000000 171
 072 H000000 0
 072 I000000 6
 072 J000000 9
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072 L000000 13
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074 V010000 14.30
 074 V020000 0.00
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 074 X000000 9690

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| 080 | C000000 | 45000 |
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| 087 | A030000 | MHI |
| 087 | B010000 | PREFERRED STOCK - SERIES A |
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| 088 | D000000 | Y |
| SIGNATURE | MARK E. BRADLEY | |
| TITLE | TREASURER | |