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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 28, 2012

PAGE 1
000 A000000 10/31/2012
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
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001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
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010 A000002 BROWN BROTHERS HARRIMAN & CO.
010 C010002 BOSTON
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
PAGE 2
011 C010001 BOSTON
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011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651

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011 C010002 STAMFORD
011 C020002 CT
011 C030002 06901
011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
011 C010003 MINNEAPOLIS
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011 C030003 55402
011 C040003 4422
011 A000004 ADVEST, INC.
011 B000004 8-21409
011 C010004 HARTFORD
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
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011 A000006 MCDONALD INVESTMENTS, INC.
011 B000006 8-30177
011 C010006 CLEVELAND
011 C020006 OH
011 C030006 44114
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011 A000007 STIFEL, NICOLAUS & CO., INC.
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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 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
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012 C010002 BROOKLYN
012 C020002 NY
012 C030002 11219
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF)
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013 A000001 ERNST & YOUNG LLP
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019 B000000 56
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020 A000001 SANFORD C. BERNSTEIN & CO., INC.
020 B000001 13-4132953
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020 A000002 UBS SECURITIES
020 B000002 13-2638166
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020 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH
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022 A000001 JP MORGAN SECURITIES, INC.
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022 A000002 CITIGROUP GLOBAL MARKETS, INC.
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022 A000005 OPPENHEIMER & CO., INC.
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022 B000006 13-5674085
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022 A000007 BARCLAYS CAPITAL, INC.
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023 D000000 1919
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087	B010000	PREFERRED STOCK - SERIES A
	PAGE	10
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087	C020000	723763306
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SIGNATURE	MARK BRADLEY	
TITLE	TREASURER	