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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A/A

March 06, 2013

PAGE 1  
000 A000000 10/31/2012  
000 C000000 0001223026  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 Y  
000 H000000 N  
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000 J000000 U  
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001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 A000002 BROWN BROTHERS HARRIMAN & CO.  
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010 C020002 MA  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
011 B000001 8-41256  
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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  
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011 A000003 RBC CAPITAL MARKETS CORP.  
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011 C010003 MINNEAPOLIS  
011 C020003 MN  
011 C030003 55402  
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011 A000004 ADVEST, INC.  
011 B000004 8-21409  
011 C010004 HARTFORD  
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011 C030004 06103  
011 A000005 JANNEY MONTGOMERY SCOTT, LLC  
011 B000005 8-462  
011 C010005 PHILADELPHIA  
011 C020005 PA  
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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  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)  
012 B000002 85-00000  
012 C010002 BROOKLYN  
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012 C030002 11219  
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF)  
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012 C010003 NEW YORK  
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013 A000001 ERNST & YOUNG LLP  
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020 A000001 SANFORD C. BERNSTEIN & CO., INC.  
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022 A000003 MORGAN KEEGAN & CO., INC.  
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022 A000004 PERSHING LLC  
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022 A000005 OPPENHEIMER & CO., INC.  
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022 A000006 MERRILL LYNCH, PIERCE, FENNER & SMITH  
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022 A000007 BARCLAYS CAPITAL, INC.  
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PAGE 7

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078 000000	N
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081 B000000	0
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083 B000000	0
084 B000000	0
SIGNATURE	MARK BRADLEY
TITLE	TREASURER