

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-A

PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 27, 2007

PAGE 1
000 A000000 10/31/2007
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
007 A000000 N
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 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 WARBURG
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-A

011 C030002 06901
011 A000003 RBC CAPITAL MARKETS
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 & COMPANY, INC.
011 B000007 8-001447
011 C010007 ST. LOUIS
011 C020007 MO
011 C030007 63102
012 A000001 PIONEER INVESTMENT MGT. SHAREHOLDER SERVICES
012 B000001 85-00000
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
PAGE 3
013 B010001 BOSTON
013 B020001 MA
013 B030001 02116
013 B040001 5072
015 A000001 BROWN BROTHERS HARRIMAN & CO.
015 B000001 C
015 C010001 BOSTON
015 C020001 MA
015 C030001 02109
015 E010001 X
018 000000 Y
019 A000000 Y
019 B000000 81
019 C000000 PIONEERFDS
020 C000001 0
020 C000002 0

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-A

020 C000003 0
020 C000004 0
020 C000005 0
020 C000006 0
020 C000007 0
020 C000008 0
020 C000009 0
020 C000010 0
021 000000 0
022 A000001 BLACKROCK, INC.
022 B000001 13-3806694
022 C000001 206047
022 D000001 0
022 A000002 LEHMAN BROTHERS, INC.
022 B000002 13-2518466
022 C000002 9697
022 D000002 3055
022 A000003 CORBY CAPITAL MARKETS, INC.
022 B000003 52-1037969
022 C000003 0
022 D000003 10815
022 A000004 UBS SECURITIES, LLC
022 B000004 13-3873456
022 C000004 4328
022 D000004 5023
022 A000005 PIPER JAFFRAY & CO.
022 B000005 41-0953246
022 C000005 7859
022 D000005 1071
022 A000006 HERBERT J. SIMS & CO., INC.
022 B000006 13-5213180
022 C000006 7019
022 D000006 0
022 A000007 FIRST TRYON SECURITIES, LLC
022 B000007 56-1986792
PAGE 4
022 C000007 0
022 D000007 4739
022 A000008 CITIGROUP GLOBAL MARKETS, INC.
022 B000008 11-2418191
022 C000008 2961
022 D000008 0
022 A000009 BEAR, STEARNS & CO., INC.
022 B000009 13-3299429
022 C000009 984
022 D000009 0
022 A000010 RAYMOND JAMES & ASSOCIATES, INC.
022 B000010 59-1237041
022 C000010 0
022 D000010 530
023 C000000 239181
023 D000000 26284
024 000000 N
026 A000000 N
026 B000000 Y
026 C000000 N
026 D000000 Y
026 E000000 N
026 F000000 N
026 G010000 N
026 G020000 N
026 H000000 N

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-A

027 000000 N
 045 000000 Y
 046 000000 N
 047 000000 Y
 048 000000 0.600
 048 A010000 0
 048 A020000 0.000
 048 B010000 0
 048 B020000 0.000
 048 C010000 0
 048 C020000 0.000
 048 D010000 0
 048 D020000 0.000
 048 E010000 0
 048 E020000 0.000
 048 F010000 0
 048 F020000 0.000
 048 G010000 0
 048 G020000 0.000
 048 H010000 0
 048 H020000 0.000
 048 I010000 0
 048 I020000 0.000
 048 J010000 0
 048 J020000 0.000
 PAGE 5
 048 K010000 0
 048 K020000 0.000
 049 000000 N
 050 000000 N
 051 000000 N
 052 000000 N
 053 A000000 N
 054 A000000 Y
 054 B000000 Y
 054 C000000 Y
 054 D000000 N
 054 E000000 N
 054 F000000 N
 054 G000000 N
 054 H000000 Y
 054 I000000 N
 054 J000000 Y
 054 K000000 N
 054 L000000 N
 054 M000000 Y
 054 N000000 N
 054 O000000 N
 055 A000000 Y
 055 B000000 N
 056 000000 Y
 057 000000 N
 058 A000000 N
 059 000000 Y
 060 A000000 Y
 060 B000000 Y
 061 000000 0
 062 A000000 Y
 062 B000000 0.0
 062 C000000 0.0
 062 D000000 0.0
 062 E000000 0.0

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-A

062 F000000 0.0
 062 G000000 0.0
 062 H000000 0.0
 062 I000000 0.0
 062 J000000 0.0
 062 K000000 0.0
 062 L000000 0.0
 062 M000000 0.0
 062 N000000 0.0
 062 O000000 123.6
 062 P000000 0.0
 062 Q000000 2.8
 062 R000000 1.0
 063 A000000 0
 063 B000000 20.6

PAGE 6

064 A000000 Y
 064 B000000 N
 066 A000000 N
 067 000000 N
 068 A000000 N
 068 B000000 N
 069 000000 N
 070 A010000 Y
 070 A020000 N
 070 B010000 N
 070 B020000 N
 070 C010000 Y
 070 C020000 N
 070 D010000 N
 070 D020000 N
 070 E010000 Y
 070 E020000 N
 070 F010000 N
 070 F020000 N
 070 G010000 Y
 070 G020000 N
 070 H010000 N
 070 H020000 N
 070 I010000 N
 070 I020000 N
 070 J010000 Y
 070 J020000 Y
 070 K010000 Y
 070 K020000 Y
 070 L010000 N
 070 L020000 N
 070 M010000 N
 070 M020000 N
 070 N010000 N
 070 N020000 N
 070 O010000 Y
 070 O020000 N
 070 P010000 Y
 070 P020000 N
 070 Q010000 N
 070 Q020000 N
 070 R010000 N
 070 R020000 N
 071 A000000 32848
 071 B000000 35112
 071 C000000 438585

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-A

071	D000000	7
072	A000000	6
072	B000000	13105
072	C000000	0
072	D000000	0
	PAGE	7
072	E000000	0
072	F000000	1339
072	G000000	195
072	H000000	0
072	I000000	155
072	J000000	15
072	K000000	0
072	L000000	11
072	M000000	7
072	N000000	12
072	O000000	0
072	P000000	0
072	Q000000	0
072	R000000	29
072	S000000	0
072	T000000	0
072	U000000	0
072	V000000	0
072	W000000	10
072	X000000	1773
072	Y000000	0
072	Z000000	11332
072AA	000000	3400
072BB	000000	0
072CC	010000	0
072CC	020000	18893
072DD	010000	9158
072DD	020000	0
072EE	000000	0
073	A010000	0.4140
073	A020000	0.0000
073	B000000	0.0000
073	C000000	0.0000
074	A000000	0
074	B000000	0
074	C000000	0
074	D000000	428988
074	E000000	0
074	F000000	2966
074	G000000	0
074	H000000	0
074	I000000	287
074	J000000	0
074	K000000	0
074	L000000	8145
074	M000000	397
074	N000000	440783
074	O000000	0
074	P000000	231
074	Q000000	0
074	R010000	0
	PAGE	8
074	R020000	0
074	R030000	0
074	R040000	244
074	S000000	101005

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-A

074	T000000	339303
074	U010000	22121
074	U020000	0
074	V010000	15.34
074	V020000	0.00
074	W000000	0.0000
074	X000000	9885
074	Y000000	0
075	A000000	0
075	B000000	342840
076	000000	14.62
077	A000000	N
078	000000	N
080	A000000	ICI MUTUAL INSURANCE CO.
080	C000000	45000
081	A000000	Y
081	B000000	81
082	A000000	N
082	B000000	0
083	A000000	N
083	B000000	0
084	A000000	N
084	B000000	0
085	A000000	Y
085	B000000	N
086	A010000	0
086	A020000	0
086	B010000	0
086	B020000	0
086	C010000	0
086	C020000	0
086	D010000	0
086	D020000	0
086	E010000	0
086	E020000	0
086	F010000	0
086	F020000	0
087	A010000	COMMON STOCK
087	A020000	723763108
087	A030000	MHI
087	B010000	PREFERRED STOCK - SERIES A
087	B020000	723763207
087	C010000	PREFERRED STOCK - SERIES B
087	C020000	723763306
088	A000000	N
088	B000000	N
088	C000000	N
	PAGE	9
088	D000000	Y
SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	