

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 30, 2013

PAGE 1
000 B000000 03/31/2013
000 C000000 0001258943
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 U
001 A000000 PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST
001 B000000 811-21409
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 BROWN BROTHERS HARRIMAN & CO.
010 C010002 BOSTON
010 C020002 MA
010 C030002 02109
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
011 C010001 BOSTON
011 C020001 MA
PAGE 2
011 C030001 02109
011 C040001 1820
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

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 MERRILL LYNCH & CO.
011 B000004 8-7221
011 C010004 NEW YORK
011 C020004 NY
011 C030004 10281
011 C040004 1201
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 WACHOVIA CAPITAL MARKETS, LLC
011 B000006 8-99999
011 C010006 RICHMOND
011 C020006 VA
011 C030006 23219
012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SERV. 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 85-05212
012 C010003 NEW YORK
012 C020003 NY
012 C030003 10005
013 A000001 ERNST & YOUNG, LLP
013 B010001 BOSTON
013 B020001 MA
013 B030001 02116
013 B040001 5072
015 A000001 BROWN BROTHERS HARRIMAN & CO.
PAGE 3
015 B000001 C
015 C010001 BOSTON
015 C020001 MA
015 C030001 02109
015 E010001 X
015 A000002 CITIBANK, N.A. BUENOS AIRES BRANCH
015 B000002 S
015 C010002 BUENOS AIRES
015 D010002 ARGENTINA
015 E040002 X
015 A000003 HSBC BANK AUSTRALIA LIMITED
015 B000003 S
015 C010003 SYDNEY
015 D010003 AUSTRALIA
015 E040003 X
015 A000004 EUROCLEAR BANK SA NV

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

015 B000004 S
015 C010004 BRUSSELS
015 D010004 BELGIUM
015 E040004 X
015 A000005 CITIBANK, N.A., SAO PAULO
015 B000005 S
015 C010005 SAO PAULO
015 D010005 BRAZIL
015 E040005 X
015 A000006 ING BANK, N.V., SOFIA BRANCH
015 B000006 S
015 C010006 SOFIA
015 D010006 BULGARIA
015 E040006 X
015 A000007 RBC INVESTOR SERVICES TRUST
015 B000007 S
015 C010007 TORONTO
015 D010007 CANADA
015 E040007 X
015 A000008 BANCO DE CHILE
015 B000008 S
015 C010008 SANTIAGO
015 D010008 CHILE
015 E040008 X
015 A000009 STANDARD CHARTERED BANK (CHINA) LIMITED
015 B000009 S
015 C010009 SHANGHAI
015 D010009 CHINA
015 E040009 X
015 A000010 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA
015 B000010 S
015 C010010 BOGATA
015 D010010 COLOMBIA
015 E040010 X
015 A000011 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
PAGE 4
015 B000011 S
015 C010011 PRAGUE
015 D010011 CZECH REPUBLIC
015 E040011 X
015 A000012 STANDARD CHARTERED BANK GHANA LTD.
015 B000012 S
015 C010012 ACCRA
015 D010012 GHANA
015 E040012 X
015 A000013 STANDARD CHARTERED BANK (HONG KONG) LIMITED
015 B000013 S
015 C010013 KWUN TONG
015 D010013 HONG KONG
015 E040013 X
015 A000014 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE
015 B000014 S
015 C010014 BUDAPEST
015 D010014 HUNGARY
015 E040014 X
015 A000015 CITIBANK, N.A., JAKARTA BRANCH
015 B000015 S
015 C010015 JAKARTA
015 D010015 INDONESIA
015 E040015 X
015 A000016 BANK HAPOALIM BM
015 B000016 S

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

015 C010016 TEL AVIV
015 D010016 ISRAEL
015 E040016 X
015 A000017 SUMITOMO MITSU BANKING CORPORATION
015 B000017 S
015 C010017 TOKYO
015 D010017 JAPAN
015 E040017 X
015 A000018 CFC STANBIC BANK LIMITED
015 B000018 S
015 C010018 NAIROBI
015 D010018 KENYA
015 E040018 X
015 A000019 HSBC BANK MALAYSIA BERHAD
015 B000019 S
015 C010019 KUALA LUMPUR
015 D010019 MALAYSIA
015 E040019 X
015 A000020 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
015 B000020 S
015 C010020 SANTA FE
015 D010020 MEXICO
015 E040020 X
015 A000021 CITIBANK MAGHREB
015 B000021 S
PAGE 5
015 C010021 CASABLANCA
015 D010021 MOROCCO
015 E040021 X
015 A000022 STANBIC IBTC BANK PLC
015 B000022 S
015 C010022 LAGOS
015 D010022 NIGERIA
015 E040022 X
015 A000023 NORDEA BANK NORGE ASA
015 B000023 S
015 C010023 OSLO
015 D010023 NORWAY
015 E040023 X
015 A000024 CITIBANK DEL PERU S.A.
015 B000024 S
015 C010024 LIMA
015 D010024 PERU
015 E040024 X
015 A000025 HSBC LIMITED, PHILIPPINE BRANCH
015 B000025 S
015 C010025 TAGUIG CITY
015 D010025 PHILLIPINES
015 E040025 X
015 A000026 BANK HANDLOWY W WARSZAWIE SA
015 B000026 S
015 C010026 WARSZAWA
015 D010026 POLAND
015 E040026 X
015 A000027 ING BANK N.V., BUCHAREST BRANCH
015 B000027 S
015 C010027 BUCHAREST
015 D010027 ROMANIA
015 E040027 X
015 A000028 ZAO CITIBANK
015 B000028 S
015 C010028 MOSCOW

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

015 D010028 RUSSIA
015 E040028 X
015 A000029 STANDARD CHARTERED BANK SINGAPORE BRANCH
015 B000029 S
015 C010029 SINGAPORE
015 D010029 SINGAPORE
015 E040029 X
015 A000030 ING BANK NV, BRATISLAVA BRANCH
015 B000030 S
015 C010030 BRATISLAVA
015 D010030 SLOVAKIA
015 E040030 X
015 A000031 STANDARD BANK OF SOUTH AFRICA LIMITED
015 B000031 S
015 C010031 JOHANNESBURG
PAGE 6
015 D010031 SOUTH AFRICA
015 E040031 X
015 A000032 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
015 B000032 S
015 C010032 STOCKHOLM
015 D010032 SWEDEN
015 E040032 X
015 A000033 CREDIT SUISSE AG
015 B000033 S
015 C010033 ZURICH
015 D010033 SWITZERLAND
015 E040033 X
015 A000034 HSBC LIMITED, THAILAND BRANCH
015 B000034 S
015 C010034 BANGKOK
015 D010034 THAILAND
015 E040034 X
015 A000035 CITIBANK ANONIM SIRKETI
015 B000035 S
015 C010035 ISTANBUL
015 D010035 TURKEY
015 E040035 X
015 A000036 HSBC BANK PLC
015 B000036 S
015 C010036 LONDON
015 D010036 UNITED KINGDOM
015 E040036 X
015 A000037 UNICREDIT BANK AUSTRIA AG
015 B000037 S
015 C010037 VIENNA
015 D010037 AUSTRIA
015 E040037 X
015 A000038 BNP PARIBAS SECURITIES SERVICES
015 B000038 S
015 C010038 PANTIN
015 D010038 BELGIUM
015 E040038 X
015 A000039 UNICREDIT BANK AUSTRIA AG
015 B000039 S
015 C010039 VIENNA
015 D010039 CROATIA
015 E040039 X
015 A000040 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
015 B000040 S
015 C010040 COPENHAGEN
015 D010040 DENMARK

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

015 E040040 X
015 A000041 CITIBANK, N.A., CAIRO BRANCH
015 B000041 S
015 C010041 CAIRO
015 D010041 EGYPT
PAGE 7
015 E040041 X
015 A000042 NORDEA BANK FINLAND PLC
015 B000042 S
015 C010042 HELSINKI
015 D010042 FINLAND
015 E040042 X
015 A000043 BNP PARIBAS SECURITIES SERVICES
015 B000043 S
015 C010043 PANTIN
015 D010043 FRANCE
015 E040043 X
015 A000044 BNP PARIBAS SECURITIES SERVICES
015 B000044 S
015 C010044 FRANKFURT
015 D010044 GERMANY
015 E040044 X
015 A000045 HSBC BANK PLC, ATHENS BRANCH
015 B000045 S
015 C010045 ATHENS
015 D010045 GREECE
015 E040045 X
015 A000046 CITIBANK, N.A., MUMBAI BRANCH
015 B000046 S
015 C010046 MUMBAI
015 D010046 INDIA
015 E040046 X
015 A000047 CITIBANK, N.A., LONDON BRANCH
015 B000047 S
015 C010047 LONDON
015 D010047 IRELAND
015 E040047 X
015 A000048 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH
015 B000048 S
015 C010048 MILAN
015 D010048 ITALY
015 E040048 X
015 A000049 HSBC BANK MIDDLE EAST CORPORATION
015 B000049 S
015 C010049 AMMAN
015 D010049 JORDAN
015 E040049 X
015 A000050 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH
015 B000050 S
015 C010050 SAFAT
015 D010050 KUWAIT
015 E040050 X
015 A000051 KBL EUROPEAN PRIVATE BANKERS SA
015 B000051 S
015 C010051 LUXEMBOURG
015 D010051 LUXEMBOURG
015 E040051 X
PAGE 8
015 A000052 BNP PARIBAS SECURITIES SERVICES
015 B000052 S
015 C010052 PANTIN
015 D010052 NETHERLANDS

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

015 E040052 X
015 A000053 HSBC LIMITED, NEW ZEALAND BRANCH
015 B000053 S
015 C010053 AUCKLAND
015 D010053 NEW ZEALAND
015 E040053 X
015 A000054 BNP PARIBAS SECURITIES SERVICES
015 B000054 S
015 C010054 PANTIN
015 D010054 PORTUGAL
015 E040054 X
015 A000055 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH
015 B000055 S
015 C010055 ST. HELIER
015 D010055 QATAR
015 E040055 X
015 A000056 HSBC SAUDI ARABIA LIMITED
015 B000056 S
015 C010056 RIYADH
015 D010056 SAUDI ARABIA
015 E040056 X
015 A000057 CITIBANK KOREA INC
015 B000057 S
015 C010057 SEOUL
015 D010057 SOUTH KOREA
015 E040057 X
015 A000058 BANCO BILBAO VIZCAYA AREGENTARIA SA
015 B000058 S
015 C010058 MADRID
015 D010058 SPAIN
015 E040058 X
015 A000059 HSBC, SRI LANKA BRANCH
015 B000059 S
015 C010059 COLOMBO
015 D010059 SRI LANKA
015 E040059 X
015 A000060 BANK OF TAIWAN
015 B000060 S
015 C010060 TAIPEI
015 D010060 TAIWAN
015 E040060 X
015 A000061 HSBC BANK PLC
015 B000061 S
015 C010061 LONDON
015 D010061 UNITED KINGDOM
015 E040061 X
015 A000062 CITIBANK, N.A., CARACAS BRANCH
PAGE 9
015 B000062 S
015 C010062 CARACAS
015 D010062 VENEZUELA
015 E040062 X
015 A000063 HSBC BANK (VIETNAM) LTD
015 B000063 S
015 C010063 HO CHI MINH CITY
015 D010063 VIETNAM
015 E040063 X
018 000000 Y
019 A000000 Y
019 B000000 57
019 C000000 PIONEERFDS
020 A000001 SANFORD C. BERNSTEIN & CO., LLC

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

020 B000001 13-4132953
020 C000001 2430
020 A000002 UBS SECURITIES LLC
020 B000002 13-3873456
020 C000002 432
020 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
020 B000003 13-5674085
020 C000003 287
020 A000004 WELLS FARGO SECURITIES, LLC
020 B000004 94-3379992
020 C000004 172
020 C000005 0
020 C000006 0
020 C000007 0
020 C000008 0
020 C000009 0
020 C000010 0
021 000000 3322
022 A000001 J.P. MORGAN SECURITIES LLC
022 B000001 13-3299429
022 C000001 27783
022 D000001 2523
022 A000002 CITIGROUP GLOBAL MARKETS INC.
022 B000002 11-2418181
022 C000002 7425
022 D000002 0
022 A000003 BNY MELLON CAPITAL MARKETS, LLC
022 B000003 23-2384977
022 C000003 5791
022 D000003 0
022 A000004 RBC CAPITAL MARKETS, LLC
022 B000004 41-1228350
022 C000004 5269
022 D000004 0
022 A000005 MORGAN KEEGAN & COMPANY, INC.
022 B000005 64-0474907
022 C000005 4727
PAGE 10
022 D000005 0
022 A000006 BLACKROCK INVESTMENTS, LLC
022 B000006 13-3806694
022 C000006 0
022 D000006 3400
022 A000007 OPPENHEIMER & CO. INC.
022 B000007 13-5657518
022 C000007 2793
022 D000007 0
022 A000008 CLEARVIEW TRADING ADVISORS, INC.
022 B000008 14-1981175
022 C000008 2000
022 D000008 0
022 A000009 MESIROW FINANCIAL, INC.
022 B000009 36-3194849
022 C000009 0
022 D000009 2023
022 A000010 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
022 B000010 13-5674085
022 C000010 0
022 D000010 1990
023 C000000 70143
023 D000000 20157
024 000000 Y

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

025 A000001 BLACKROCK INVESTMENTS, LLC
025 B000001 13-3806694
025 C000001 D
025 D000001 7000
025 D000002 0
025 D000003 0
025 D000004 0
025 D000005 0
025 D000006 0
025 D000007 0
025 D000008 0
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
027 000000 N
028 A010000 0
028 A020000 0
028 A030000 0
028 A040000 0
028 B010000 0
028 B020000 0
PAGE 11
028 B030000 0
028 B040000 0
028 C010000 0
028 C020000 0
028 C030000 0
028 C040000 0
028 D010000 0
028 D020000 0
028 D030000 0
028 D040000 0
028 E010000 0
028 E020000 0
028 E030000 0
028 E040000 0
028 F010000 0
028 F020000 0
028 F030000 0
028 F040000 0
028 G010000 0
028 G020000 0
028 G030000 0
028 G040000 0
028 H000000 0
030 A000000 0
030 B000000 0.00
030 C000000 0.00
031 A000000 0
031 B000000 0
032 000000 0
033 000000 0
035 000000 0
036 B000000 0
038 000000 0
042 A000000 0

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

042	B000000	0
042	C000000	0
042	D000000	0
042	E000000	0
042	F000000	0
042	G000000	0
042	H000000	0
043	000000	0
044	000000	0
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
	PAGE	12
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
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	N
055	B000000	N
056	000000	N
057	000000	N
058	A000000	N
059	000000	Y

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

060 A000000 Y
060 B000000 Y
061 000000 0
062 A000000 Y
062 B000000 0.0
062 C000000 0.0
062 D000000 0.0

PAGE 13

062 E000000 0.0
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 146.2
062 P000000 0.0
062 Q000000 2.2
062 R000000 0.0

063 A000000 0
063 B000000 20.6

064 A000000 Y
064 B000000 Y
065 000000 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

PAGE 14

070 N020000 N
070 O010000 Y

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

070	O020000	N	
070	P010000	Y	
070	P020000	N	
070	Q010000	N	
070	Q020000	N	
070	R010000	N	
070	R020000	N	
071	A000000		69789
071	B000000		62319
071	C000000		456589
071	D000000		14
072	A000000		12
072	B000000		29387
072	C000000		0
072	D000000		0
072	E000000		0
072	F000000		2790
072	G000000		273
072	H000000		0
072	I000000		36
072	J000000		7
072	K000000		0
072	L000000		26
072	M000000		17
072	N000000		18
072	O000000		0
072	P000000		0
072	Q000000		0
072	R000000		61
072	S000000		124
072	T000000		0
072	U000000		0
072	V000000		0
072	W000000		535
072	X000000		3887
072	Y000000		0
072	Z000000		25500
072AA	000000		418
072BB	000000		0
072CC	010000		16515
072CC	020000		0
072DD	010000		26607
072DD	020000		0
072EE	000000		0
073	A010000		1.1400
073	A020000		0.0000
073	B000000		0.0000
073	C000000		0.0000
074	A000000		0
PAGE 15			
074	B000000		0
074	C000000		0
074	D000000		463254
074	E000000		0
074	F000000		0
074	G000000		0
074	H000000		0
074	I000000		7000
074	J000000		0
074	K000000		0
074	L000000		11546
074	M000000		173

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

074	N000000	481973
074	O000000	12808
074	P000000	230
074	Q000000	0
074	R010000	0
074	R020000	0
074	R030000	0
074	R040000	2055
074	S000000	150006
074	T000000	316874
074	U010000	23407
074	U020000	0
074	V010000	13.54
074	V020000	0.00
074	W000000	0.0000
074	X000000	0
074	Y000000	0
075	A000000	0
075	B000000	315018
076	000000	15.51
077	A000000	Y
077	B000000	Y
077	C000000	N
077	D000000	N
077	E000000	N
077	F000000	N
077	G000000	N
077	H000000	N
077	I000000	N
077	J000000	N
077	K000000	N
077	L000000	N
077	M000000	N
077	N000000	N
077	O000000	N
077	P000000	N
077	Q010000	N
077	Q020000	N
077	Q030000	N
	PAGE	16
078	000000	N
080	A000000	ICI MUTUAL INSURANCE COMPANY
080	C000000	45000
081	A000000	Y
081	B000000	57
082	A000000	Y
082	B000000	0
083	A000000	N
083	B000000	0
084	A000000	N
084	B000000	0
085	A000000	N
085	B000000	N
086	A010000	149
086	A020000	1961
086	B010000	0
086	B020000	0
086	C010000	0
086	C020000	0
086	D010000	0
086	D020000	0
086	E010000	0

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-B

086 E020000 0
086 F010000 0
086 F020000 0
087 A010000 COMMON STOCK
087 A020000 723762100
087 A030000 MAV
087 B010000 PREFERRED STOCK - SERIES A
087 B020000 723762209
087 C010000 PREFERRED STOCK - SERIES B
087 C020000 723762308
088 A000000 N
088 B000000 N
088 C000000 N
088 D000000 Y
SIGNATURE MARK E. BRADLEY
TITLE TREASURER