

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST
Form NSAR-B
May 30, 2013

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000 B000000 03/31/2013
000 C000000 0001258943
000 D000000 N
000 E000000 NF
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000 I000000 6.1
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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
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007 C010900 9
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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010 B000001 801-8255
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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
011 C010001 BOSTON
011 C020001 MA
PAGE 2
011 C030001 02109
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011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT

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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
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011 A000006 WACHOVIA CAPITAL MARKETS, LLC
011 B000006 8-99999
011 C010006 RICHMOND
011 C020006 VA
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012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SERV. INC.
012 B000001 85-01359
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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
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012 C030003 10005
013 A000001 ERNST & YOUNG, LLP
013 B010001 BOSTON
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015 A000001 BROWN BROTHERS HARRIMAN & CO.
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015 A000003 HSBC BANK AUSTRALIA LIMITED
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015 C010003 SYDNEY
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015 A000004 EUROCLEAR BANK SA NV

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015 A000007 RBC INVESTOR SERVICES TRUST
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015 A000008 BANCO DE CHILE
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015 A000009 STANDARD CHARTERED BANK (CHINA) LIMITED
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015 A000013 STANDARD CHARTERED BANK (HONG KONG) LIMITED
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015 A000014 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE
015 B000014 S
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015 A000015 CITIBANK, N.A., JAKARTA BRANCH
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015 D010015 INDONESIA
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015 A000016 BANK HAPOALIM BM
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015 C010016 TEL AVIV
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015 A000017 SUMITOMO MITSU BANKING CORPORATION
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015 A000018 CFC STANBIC BANK LIMITED
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015 C010018 NAIROBI
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015 E040018 X
015 A000019 HSBC BANK MALAYSIA BERHAD
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015 C010019 KUALA LUMPUR
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015 A000020 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
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015 A000026 BANK HANDLOWY W WARSZAWIE SA
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015 C010026 WARSZAWA
015 D010026 POLAND
015 E040026 X
015 A000027 ING BANK N.V., BUCHAREST BRANCH
015 B000027 S
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015 D010027 ROMANIA
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015 A000028 ZAO CITIBANK
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015 C010028 MOSCOW

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015 D010028 RUSSIA
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015 E040029 X
015 A000030 ING BANK NV, BRATISLAVA BRANCH
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015 C010030 BRATISLAVA
015 D010030 SLOVAKIA
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015 A000031 STANDARD BANK OF SOUTH AFRICA LIMITED
015 B000031 S
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015 D010031 SOUTH AFRICA
015 E040031 X
015 A000032 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
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015 A000035 CITIBANK ANONIM SIRKETI
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015 D010040 DENMARK

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015 B000041 S
015 C010041 CAIRO
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015 C010043 PANTIN
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015 B000045 S
015 C010045 ATHENS
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015 B000048 S
015 C010048 MILAN
015 D010048 ITALY
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015 A000049 HSBC BANK MIDDLE EAST CORPORATION
015 B000049 S
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015 D010049 JORDAN
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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
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015 C010052 PANTIN
015 D010052 NETHERLANDS

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015 A000053 HSBC LIMITED, NEW ZEALAND BRANCH
015 B000053 S
015 C010053 AUCKLAND
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015 A000054 BNP PARIBAS SECURITIES SERVICES
015 B000054 S
015 C010054 PANTIN
015 D010054 PORTUGAL
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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
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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
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015 A000059 HSBC, SRI LANKA BRANCH
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015 C010059 COLOMBO
015 D010059 SRI LANKA
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015 C010060 TAIPEI
015 D010060 TAIWAN
015 E040060 X
015 A000061 HSBC BANK PLC
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015 C010061 LONDON
015 D010061 UNITED KINGDOM
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015 A000062 CITIBANK, N.A., CARACAS BRANCH
PAGE 9
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015 C010062 CARACAS
015 D010062 VENEZUELA
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015 D010063 VIETNAM
015 E040063 X
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019 C000000 PIONEERFDS
020 A000001 SANFORD C. BERNSTEIN & CO., LLC

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020 B000001 13-4132953
020 C000001 2430
020 A000002 UBS SECURITIES LLC
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020 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
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022 A000008 CLEARVIEW TRADING ADVISORS, INC.
022 B000008 14-1981175
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022 A000009 MESIROW FINANCIAL, INC.
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022 A000010 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
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088 D000000 Y
SIGNATURE MARK E. BRADLEY
TITLE TREASURER