

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 30, 2013

PAGE 1  
000 B000000 03/31/2013  
000 C000000 0001258943  
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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  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
008 C000001 801-8255  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 C010001 BOSTON  
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010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
010 C020002 MA  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
011 B000001 8-41256  
011 C010001 BOSTON  
011 C020001 MA  
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011 C030001 02109  
011 C040001 1820  
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  
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  
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015 A000001 BROWN BROTHERS HARRIMAN & CO.  
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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

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015 B000004 S  
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015 D010004 BELGIUM  
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015 B000005 S  
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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 A000010 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA  
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015 A000011 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
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015 A000012 STANDARD CHARTERED BANK GHANA LTD.  
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015 A000013 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
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015 A000014 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
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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 C010017 TOKYO  
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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 A000021 CITIBANK MAGHREB  
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015 E040022 X  
015 A000023 NORDEA BANK NORGE ASA  
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015 A000024 CITIBANK DEL PERU S.A.  
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015 A000025 HSBC LIMITED, PHILIPPINE BRANCH  
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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  
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015 A000028 ZAO CITIBANK  
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015 D010028 RUSSIA  
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015 A000030 ING BANK NV, BRATISLAVA BRANCH  
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015 A000031 STANDARD BANK OF SOUTH AFRICA LIMITED  
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015 C010031 JOHANNESBURG  
PAGE 6  
015 D010031 SOUTH AFRICA  
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015 A000032 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)  
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015 A000033 CREDIT SUISSE AG  
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015 A000034 HSBC LIMITED, THAILAND BRANCH  
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015 A000035 CITIBANK ANONIM SIRKETI  
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015 C010035 ISTANBUL  
015 D010035 TURKEY  
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015 A000036 HSBC BANK PLC  
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015 C010036 LONDON  
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015 E040036 X  
015 A000037 UNICREDIT BANK AUSTRIA AG  
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015 A000038 BNP PARIBAS SECURITIES SERVICES  
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015 C010038 PANTIN  
015 D010038 BELGIUM  
015 E040038 X  
015 A000039 UNICREDIT BANK AUSTRIA AG  
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015 E040039 X  
015 A000040 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)  
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015 D010040 DENMARK

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015 E040040 X  
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015 B000041 S  
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015 D010041 EGYPT  
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015 A000043 BNP PARIBAS SECURITIES SERVICES  
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015 A000046 CITIBANK, N.A., MUMBAI BRANCH  
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015 B000048 S  
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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  
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015 E040051 X  
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015 A000052 BNP PARIBAS SECURITIES SERVICES  
015 B000052 S  
015 C010052 PANTIN  
015 D010052 NETHERLANDS

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015 E040052 X  
015 A000053 HSBC LIMITED, NEW ZEALAND BRANCH  
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015 C010053 AUCKLAND  
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015 E040053 X  
015 A000054 BNP PARIBAS SECURITIES SERVICES  
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015 A000055 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH  
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015 C010055 ST. HELIER  
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015 A000056 HSBC SAUDI ARABIA LIMITED  
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015 A000057 CITIBANK KOREA INC  
015 B000057 S  
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015 C010061 LONDON  
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015 E040062 X  
015 A000063 HSBC BANK (VIETNAM) LTD  
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020 A000001 SANFORD C. BERNSTEIN & CO., LLC

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020 B000001 13-4132953  
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020 A000002 UBS SECURITIES LLC  
020 B000002 13-3873456  
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020 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
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022 A000002 CITIGROUP GLOBAL MARKETS INC.  
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022 B000003 23-2384977  
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022 A000005 MORGAN KEEGAN & COMPANY, INC.  
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022 A000008 CLEARVIEW TRADING ADVISORS, INC.  
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022 A000009 MESIROW FINANCIAL, INC.  
022 B000009 36-3194849  
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022 B000010 13-5674085  
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077	O000000	N
077	P000000	N
077	Q010000	N
077	Q020000	N
077	Q030000	N
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080	C000000	45000
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081	B000000	57
082	A000000	Y
082	B000000	0
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083	B000000	0
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085	B000000	N
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086	B010000	0
086	B020000	0
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086	C020000	0
086	D010000	0
086	D020000	0
086	E010000	0

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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