

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 30, 2014

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000 B000000 03/31/2014  
000 C000000 0001258943  
000 D000000 N  
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000 F000000 Y  
000 G000000 N  
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001 B000000 811-21409  
001 C000000 6177427825  
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002 D010000 02109  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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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  
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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  
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  
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012 C030003 10005  
013 A000001 ERNST & YOUNG, LLP  
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015 C010002 BUENOS AIRES  
015 D010002 ARGENTINA  
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015 A000003 HSBC BANK AUSTRALIA LIMITED  
015 B000003 S  
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015 E040003 X  
015 A000004 UNICREDIT BANK AUSTRIA AG

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015 B000004 S  
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015 D010004 AUSTRIA  
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015 D010005 BANGLADESH  
015 E040005 X  
015 A000006 EUROCLEAR BANK SA NV  
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015 D010006 BELGIUM  
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015 A000007 BNP PARIBAS SECURITIES SERVICES  
015 B000007 S  
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015 E040007 X  
015 A000008 CITIBANK, N.A., SAO PAULO  
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015 A000014 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
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015 C010015 COPENHAGEN  
015 D010015 DENMARK  
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015 A000016 CITIBANK, N.A., CAIRO BRANCH  
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015 C010016 CAIRO  
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015 A000020 STANDARD CHARTERED BANK GHANA LTD.  
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015 A000021 HSBC BANK PLC, ATHENS BRANCH  
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015 A000023 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
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015 A000024 CITIBANK, N.A., MUMBAI BRANCH  
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015 D010028 ITALY  
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015 E040030 X  
015 A000031 CFC STANBIC BANK LIMITED  
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015 A000035 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
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015 A000036 CITIBANK MAGHREB  
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015 C010036 CASABLANCA  
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015 A000040 NORDEA BANK NORGE ASA  
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015 A000046 ING BANK N.V., BUCHAREST BRANCH  
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015 D010047 RUSSIA  
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015 C010048 RIYADH  
015 D010048 SAUDI ARABIA  
015 E040048 X  
015 A000049 STANDARD CHARTERED BANK SINGAPORE BRANCH  
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015 C010050 BRATISLAVA  
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015 A000051 STANDARD BANK OF SOUTH AFRICA LIMITED  
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015 C010051 JOHANNESBURG  
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015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA  
015 B000053 S  
015 C010053 MADRID

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015 D010053 SPAIN  
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015 A000062 CITIBANK, N.A., CARACAS BRANCH  
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015 A000063 HSBC BANK (VIETNAM) LTD  
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072 A000000 12

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078	000000	N
080	A000000	ICI MUTUAL INSURANCE COMPANY
080	C000000	45000
081	A000000	Y
081	B000000	55
082	A000000	Y
082	B000000	0
083	A000000	N
083	B000000	0
084	A000000	N
084	B000000	0
085	A000000	N
	PAGE	16
085	B000000	N
086	A010000	137
086	A020000	1804
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	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

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088 C000000 N  
088 D000000 Y  
SIGNATURE MARK E. BRADLEY  
TITLE TREASURER