

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 28, 2015

PAGE 1  
000 B000000 03/31/2015  
000 C000000 0001258943  
000 D000000 N  
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000 F000000 Y  
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000 H000000 N  
000 I000000 6.1  
000 J000000 A  
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  
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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  
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010 C020001 MA  
010 C030001 02109  
010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
010 C020002 MA  
010 C030002 02110  
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 DELOITTE & TOUCHE LLP  
013 B010001 BOSTON  
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013 B030001 02116  
015 A000001 BROWN BROTHERS HARRIMAN & CO.  
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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 UNICREDIT BANK AUSTRIA AG  
015 B000004 S

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015 C010004 VIENNA  
015 D010004 AUSTRIA  
015 E040004 X  
015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH  
015 B000005 S  
015 C010005 DHAKA  
015 D010005 BANGLADESH  
015 E040005 X  
015 A000006 EUROCLEAR BANK SA NV  
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015 C010006 BRUSSELS  
015 D010006 BELGIUM  
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015 A000007 BNP PARIBAS SECURITIES SERVICES  
015 B000007 S  
015 C010007 PANTIN  
015 D010007 BELGIUM  
015 E040007 X  
015 A000008 CITIBANK, N.A., SAO PAULO  
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015 A000009 CITIBNK EUROPE PLC, BULGARIA BRANCH  
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015 A000011 BANCO DE CHILE  
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015 C010011 SANTIAGO  
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015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED  
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015 C010012 SHANGHAI  
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015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA  
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015 A000014 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
015 B000014 S  
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015 A000015 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)  
015 B000015 S  
015 C010015 COPENHAGEN  
015 D010015 DENMARK  
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015 A000016 CITIBANK, N.A., CAIRO BRANCH  
015 B000016 S  
015 C010016 CAIRO

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015 D010016 EGYPT  
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015 A000017 NORDEA BANK FINLAND PLC  
015 B000017 S  
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015 E040018 X  
015 A000019 BNP PARIBAS SECURITIES SERVICES,FRANKFURT B  
015 B000019 S  
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015 E040019 X  
015 A000020 STANDARD CHARTERED BANK GHANA LTD.  
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015 C010020 ACCRA  
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015 E040020 X  
015 A000021 HSBC BANK PLC, ATHENS BRANCH  
015 B000021 S  
015 C010021 ATHENS  
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015 D010021 GREECE  
015 E040021 X  
015 A000022 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
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015 C010022 KWUN TONG  
015 D010022 HONG KONG  
015 E040022 X  
015 A000023 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
015 B000023 S  
015 C010023 BUDAPEST  
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015 E040023 X  
015 A000024 CITIBANK, N.A., MUMBAI BRANCH  
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015 E040024 X  
015 A000025 CITIBANK, N.A., JAKARTA BRANCH  
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015 A000026 CITIBANK, N.A., LONDON BRANCH  
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015 E040026 X  
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015 B000027 S  
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015 A000028 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH  
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015 D010028 ITALY

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015 E040028 X  
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015 B000029 S  
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015 C010030 HELSINKI  
015 D010030 ESTONIA  
015 E040030 X  
015 A000031 CFC STANBIC BANK LIMITED  
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015 C010031 NAIROBI  
015 D010031 KENYA  
PAGE 6  
015 E040031 X  
015 A000032 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH  
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015 A000033 KBL EUROPEAN PRIVATE BANKERS SA  
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015 E040033 X  
015 A000034 HSBC BANK MALAYSIA BERHAD  
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015 D010034 MALAYSIA  
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015 A000035 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
015 B000035 S  
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015 E040035 X  
015 A000036 CITIBANK MAGHREB  
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015 C010036 CASABLANCA  
015 D010036 MOROCCO  
015 E040036 X  
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015 A000038 HSBC LIMITED, NEW ZEALAND BRANCH  
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015 D010038 NEW ZEALAND  
015 E040038 X  
015 A000039 STANBIC IBTC BANK PLC  
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015 C010039 LAGOS  
015 D010039 NIGERIA  
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015 A000040 NORDEA BANK NORGE ASA  
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015 D010040 NORWAY  
015 E040040 X

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015 A000041 CITIBANK DEL PERU S.A.  
015 B000041 S  
015 C010041 LIMA  
015 D010041 PERU  
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PAGE 7  
015 A000042 HSBC LIMITED, PHILIPPINE BRANCH  
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015 E040042 X  
015 A000043 BANK HANDLOWY W WARSZAWIE SA  
015 B000043 S  
015 C010043 WARSAW  
015 D010043 POLAND  
015 E040043 X  
015 A000044 BNP PARIBAS SECURITIES SERVICES  
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015 D010044 PORTUGAL  
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015 A000045 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH  
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015 A000046 CITIBANK EUROPE PLC, DUBLIN-SUCURSALA ROMANIA  
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015 A000047 ZAO CITIBANK  
015 B000047 S  
015 C010047 MOSCOW  
015 D010047 RUSSIA  
015 E040047 X  
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015 A000049 STANDARD CHARTERED BANK SINGAPORE BRANCH  
015 B000049 S  
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015 A000050 CITIBANK EUROPE PLC, POBOCKA ZAHRANICNEJ BANK  
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015 C010050 BRATISLAVA  
015 D010050 SLOVAKIA  
015 E040050 X  
015 A000051 STANDARD BANK OF SOUTH AFRICA LIMITED  
015 B000051 S  
015 C010051 JOHANNESBURG  
015 D010051 SOUTH AFRICA  
015 E040051 X  
015 A000052 CITIBANK KOREA INC.  
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015 C010052 SEOUL  
015 D010052 SOUTH KOREA  
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PAGE 8  
015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA  
015 B000053 S  
015 C010053 MADRID  
015 D010053 SPAIN

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015 E040053 X  
015 A000054 HSBC, SRI LANKA BRANCH  
015 B000054 S  
015 C010054 COLOMBO  
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015 C010055 STOCKHOLM  
015 D010055 SWEDEN  
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015 A000056 CREDIT SUISSE AG  
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015 C010056 ZURICH  
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015 A000058 HSBC LIMITED, THAILAND BRANCH  
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015 A000063 HSBC BANK (VIETNAM) LTD  
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015 A000064 UNICREDIT BANK AUSTRIA AG  
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077	N000000	N
077	O000000	N
077	P000000	N
077	Q010000	N
077	Q020000	N
077	Q030000	N
078	000000	N
080	A000000	ICI MUTUAL INSURANCE COMPANY
080	C000000	45000
081	A000000	Y
081	B000000	52
082	A000000	Y
082	B000000	0
083	A000000	N
083	B000000	0
084	A000000	N
084	B000000	0
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085	A000000	N
085	B000000	N
086	A010000	143
086	A020000	2072
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

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088 B000000 N  
088 C000000 N  
088 D000000 Y  
SIGNATURE MARK E. BRADLEY  
TITLE TREASURER