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PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 29, 2017

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000 C000000 0001258943  
000 D000000 N  
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000 F000000 Y  
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000 H000000 N  
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000 J000000 A  
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001 C000000 6177427825  
002 A000000 60 STATE STREET  
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007 C010600 6  
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008 A000001 AMUNDI PIONEER ASSET MANAGEMENT, INC.  
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010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
010 C020002 MA  
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011 A000001 AMUNDI PIONEER DISTRIBUTOR, INC.  
011 B000001 8-41256  
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011 C010001 BOSTON  
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011 C030001 02109  
011 C040001 1820  
011 A000002 UBS INVESTMENT BANK  
011 B000002 8-022651

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011 C010002 STAMFORD  
011 C020002 CT  
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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.  
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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  
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011 A000006 WACHOVIA CAPITAL MARKETS, LLC  
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011 C010006 RICHMOND  
011 C020006 VA  
011 C030006 23219  
012 A000001 DELETE  
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  
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013 A000001 ERNST & YOUNG LLP  
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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  
015 C010004 VIENNA  
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015 E040004 X  
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015 D010005 BANGLADESH  
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015 A000007 BNP PARIBAS SECURITIES SERVICES  
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015 C010007 PANTIN  
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015 E040007 X  
015 A000008 CITIBANK, N.A., SAO PAULO  
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015 D010008 BRAZIL  
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015 D010012 CHINA  
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015 A000014 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
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015 A000015 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)  
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015 D010015 DENMARK  
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015 A000016 CITIBANK, N.A., CAIRO BRANCH  
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015 D010017 FINLAND

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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 E040021 X  
015 A000022 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
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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 D010024 INDIA  
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015 C010025 JAKARTA  
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015 E040026 X  
015 A000027 BANK HAPOALIM BM  
015 B000027 S  
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015 A000029 SUMITOMO MITSU BANKING CORPORATION  
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015 A000030 NORDEA BANK AB (PUBL), FINNISH BRANCH  
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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 A000034 HSBC BANK MALAYSIA BERHAD  
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015 D010034 MALAYSIA  
015 E040034 X  
015 A000035 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
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015 A000039 STANBIC IBTC BANK PLC  
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015 E040039 X  
015 A000040 NORDEA BANK AB (PUBL), FILIAL I NORGE  
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015 A000041 CITIBANK DEL PERU S.A.  
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015 D010041 PERU  
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015 A000042 HSBC LIMITED, PHILIPPINE BRANCH

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015 B000042 S  
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PAGE 7  
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015 A000046 CITIBANK EUROPE PLC, DUBLIN-SUCURSALA ROMANIA  
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015 E040050 X  
015 A000051 STANDARD CHARTERED BANK JOHANNESBURG BRANCH  
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015 A000052 CITIBANK KOREA INC.  
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015 A000054 HSBC, SRI LANKA BRANCH  
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015 B000054 S  
015 C010054 COLOMBO  
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015 A000056 CREDIT SUISSE (SWITZERLAND) LTD.  
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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
088	C000000	N
088	D000000	Y
SIGNATURE	MARK E. BRADLEY	
TITLE	TREASURER	