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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 28, 2016

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000 B000000 04/30/2016
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000 D000000 N
000 E000000 NF
000 F000000 Y
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001 C000000 6177427825
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002 B000000 BOSTON
002 C000000 MA
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008 D020001 MA
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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
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PAGE 2
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
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011 B000003 8-045411
011 C010003 MINNEAPOLIS
011 C020003 MN
011 C030003 55402
011 C040003 4422
011 A000004 ADVEST, INC.
011 B000004 8-21409
011 C010004 HARTFORD
011 C020004 CT
011 C030004 06103
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 MCDONALD INVESTMENTS, INC.
011 B000006 8-30177
011 C010006 CLEVELAND
011 C020006 OH
011 C030006 44114
011 C040006 2603
011 A000007 STIFEL, NICOLAUS & CO., INC.
011 B000007 8-001447
011 C010007 ST. LOUIS
011 C020007 MO
011 C030007 63102
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., 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 85-00000
012 C010003 NEW YORK
012 C020003 NY
012 C030003 10005
013 A000001 DELOITTE & TOUCHE LLP
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015 E040002 X
015 A000003 HSBC BANK AUSTRALIA LIMITED
015 B000003 S

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015 C010003 SYDNEY
015 D010003 AUSTRALIA
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015 C010006 BRUSSELS
015 D010006 BELGIUM
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015 A000007 NORDEA BANK FINLAND PLC
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015 C010007 HELSINKI
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015 D010008 BRAZIL
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015 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
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015 D010015 CZECH REPUBLIC
015 E040015 X
015 A000016 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)DAN
015 B000016 S
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015 D010017 EGYPT
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015 A000018 NORDEA BANK FINLAND PLC
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015 A000019 BNP PARIBAS SECURITIES SERVICES
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015 D010019 FRANCE
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015 D010022 GREECE
015 E040022 X
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015 B000023 S
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015 D010026 INDONESIA
015 E040026 X
015 A000027 CITIBANK, N.A., LONDON BRANCH
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015 D010027 IRELAND

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015 E040027 X
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015 A000034 KBL EUROPEAN PRIVATE BANKERS SA
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015 C010035 KUALA LUMPUR
015 D010035 MALAYSIA
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015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
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015 E040036 X
015 A000037 CITIBANK MAGHREB
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015 C010037 CASABLANCA
015 D010037 MOROCCO
015 E040037 X
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015 A000041 NORDEA BANK NORGE ASA
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015 D010041 NORWAY
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015 A000042 CITIBANK DEL PERU S.A.
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PAGE 7
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015 B000044 S
015 C010044 WARSAW
015 D010044 POLAND
015 E040044 X
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015 D010046 QATAR
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PAGE 8
015 B000055 S
015 C010055 COLOMBO
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015 E040055 X

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015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB (PUB)
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015 C010056 STOCKHOLM
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015 B000064 S
015 C010064 HO CHI MINH CITY
015 D010064 VIETNAM
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015 A000065 STANDARD CHARTERED BANK KENYA LIMITED
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087	A020000	723763108

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087 A030000 MHI
087 B010000 PREFERRED STOCK - SERIES A
087 B020000 723763207
087 C010000 PREFERRED STOCK - SERIES B
087 C020000 723763306
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SIGNATURE MARK BRADLEY
TITLE TREASURER