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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 28, 2013

PAGE 1  
000 B000000 04/30/2013  
000 C000000 0001223026  
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001 A000000 PIONEER MUNICIPAL HIGH INCOME TRUST  
001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
002 B000000 BOSTON  
002 C000000 MA  
002 D010000 02109  
003 000000 N  
004 000000 N  
005 000000 N  
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007 A000000 N  
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007 C010100 1  
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007 C010300 3  
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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  
010 C010001 BOSTON  
010 C020001 MA  
010 C030001 02109  
010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
010 C020002 MA  
010 C030002 02109  
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
011 B000001 8-41256  
011 C010001 BOSTON  
011 C020001 MA  
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  
011 A000003 RBC CAPITAL MARKETS CORP.  
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  
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 85-00000  
012 C010003 NEW YORK  
012 C020003 NY  
012 C030003 10005  
013 A000001 ERNST & YOUNG LLP  
PAGE 3  
013 B010001 BOSTON  
013 B020001 MA  
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013 B040001 5072  
015 A000001 BROWN BROTHERS HARRIMAN & CO.  
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015 A000002 CITIBANK, N.A. BUENOS AIRES BRANCH  
015 B000002 S  
015 C010002 BUENOS AIRES  
015 D010002 ARGENTINA  
015 E040002 X  
015 A000003 HSBC BANK AUSTRALIA LIMITED

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015 B000003 S  
015 C010003 SYDNEY  
015 D010003 AUSTRALIA  
015 E040003 X  
015 A000004 UNICREDIT BANK AUSTRIA AG  
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015 C010004 VIENNA  
015 D010004 AUSTRIA  
015 E040004 X  
015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH  
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015 D010005 BANGLADESH  
015 E040005 X  
015 A000006 BNP PARIBAS SECURITIES SERVICES  
015 B000006 S  
015 C010006 PARIS  
015 D010006 FRANCE  
015 E040006 X  
015 A000007 EUROCLEAR BANK SA NV  
015 B000007 S  
015 C010007 BRUSSELS  
015 D010007 BELGIUM  
015 E040007 X  
015 A000008 CITIBANK, N.A., SAO PAULO  
015 B000008 S  
015 C010008 SAO PAULO  
015 D010008 BRAZIL  
015 E040008 X  
015 A000009 ING BANK, N.V., SOFIA BRANCH  
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015 D010009 BULGARIA  
015 E040009 X  
015 A000010 RBC INVESTOR SERVICES TRUST  
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015 B000010 S  
015 C010010 TORONTO  
015 D010010 CANADA  
015 E040010 X  
015 A000011 BANCO DE CHILE  
015 B000011 S  
015 C010011 SANTIAGO  
015 D010011 CHILE  
015 E040011 X  
015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED  
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015 C010012 SHANGHAI  
015 D010012 CHINA  
015 E040012 X  
015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA  
015 B000013 S  
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015 D010013 COLOMBIA  
015 E040013 X  
015 A000014 UNICREDIT BANK AUSTRIA AG  
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015 C010014 VIENNA  
015 D010014 AUSTRIA  
015 E040014 X  
015 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
015 B000015 S

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015 C010015 PRAGUE  
015 D010015 CZECH REPUBLIC  
015 E040015 X  
015 A000016 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)DAN  
015 B000016 S  
015 C010016 COPENHAGEN  
015 D010016 DENMARK  
015 E040016 X  
015 A000017 CITIBANK, N.A., CAIRO BRANCH  
015 B000017 S  
015 C010017 CAIRO  
015 D010017 EGYPT  
015 E040017 X  
015 A000018 NORDEA BANK FINLAND PLC  
015 B000018 S  
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015 D010018 FINLAND  
015 E040018 X  
015 A000019 BNP PARIBAS SECURITIES SERVICES  
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015 A000020 BNP PARIBAS SECURITIES SERVICES, FRANKFURT  
015 B000020 S  
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015 C010020 FRANKFURT  
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015 A000021 STANDARD CHARTERED BANK GHANA LTD.  
015 B000021 S  
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015 D010021 GHANA  
015 E040021 X  
015 A000022 HSBC BANK PLC, ATHENS BRANCH  
015 B000022 S  
015 C010022 ATHENS  
015 D010022 GREECE  
015 E040022 X  
015 A000023 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
015 B000023 S  
015 C010023 KWUN TONG  
015 D010023 HONG KONG  
015 E040023 X  
015 A000024 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
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015 E040024 X  
015 A000025 CITIBANK, N.A.-MUMBAI BRANCH  
015 B000025 S  
015 C010025 MUMBAI  
015 D010025 INDIA  
015 E040025 X  
015 A000026 CITIBANK, N.A., JAKARTA BRANCH  
015 B000026 S  
015 C010026 JAKARTA  
015 D010026 INDONESIA  
015 E040026 X  
015 A000027 CITIBANK, N.A., LONDON BRANCH  
015 B000027 S  
015 C010027 LONDON

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015 D010027 IRELAND  
015 E040027 X  
015 A000028 BANK HAPOALIM BM  
015 B000028 S  
015 C010028 TEL AVIV  
015 D010028 ISRAEL  
015 E040028 X  
015 A000029 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH  
015 B000029 S  
015 C010029 MILAN  
015 D010029 ITALY  
015 E040029 X  
015 A000030 SUMITOMO MITSU BANKING CORPORATION  
015 B000030 S  
015 C010030 TOKYO  
015 D010030 JAPAN  
015 E040030 X  
015 A000031 HSBC BANK MIDDLE EAST LIMITED, JORDAN BRANCH  
015 B000031 S  
015 C010031 AMMAN  
015 D010031 JORDAN  
015 E040031 X  
015 A000032 CFC STANBIC BANK LIMITED  
015 B000032 S  
015 C010032 NAIROBI  
015 D010032 KENYA  
015 E040032 X  
015 A000033 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH  
015 B000033 S  
015 C010033 SAFAT  
015 D010033 KUWAIT  
015 E040033 X  
015 A000034 KBL EUROPEAN PRIVATE BANKERS SA  
015 B000034 S  
015 C010034 LUXEMBOURG  
015 D010034 LUXEMBOURG  
015 E040034 X  
015 A000035 HSBC BANK MALAYSIA BERHAD  
015 B000035 S  
015 C010035 KUALA LUMPUR  
015 D010035 MALAYSIA  
015 E040035 X  
015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
015 B000036 S  
015 C010036 MEXICO CITY  
015 D010036 MEXICO  
015 E040036 X  
015 A000037 CITIBANK MAGHREB  
015 B000037 S  
015 C010037 CASABLANCA  
015 D010037 MOROCCO  
015 E040037 X  
015 A000038 BNP PARIBAS SECURITIES SERVICES  
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015 A000039 HSBC LIMITED, NEW ZEALAND BRANCH  
015 B000039 S  
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015 D010039 NEW ZEALAND

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015 E040039 X  
015 A000040 STANBIC IBTC BANK PLC  
015 B000040 S  
015 C010040 LAGOS  
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PAGE 7  
015 E040040 X  
015 A000041 NORDEA BANK NORGE ASA  
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015 D010041 NORWAY  
015 E040041 X  
015 A000042 CITIBANK DEL PERU S.A.  
015 B000042 S  
015 C010042 LIMA  
015 D010042 PERU  
015 E040042 X  
015 A000043 HSBC LIMITED, PHILLIPINE BRANCH  
015 B000043 S  
015 C010043 TAGUIG  
015 D010043 PHILLIPINES  
015 E040043 X  
015 A000044 BANK HANDLOWY W WARSZAWIE SA  
015 B000044 S  
015 C010044 WARSAW  
015 D010044 POLAND  
015 E040044 X  
015 A000045 BNP PARIBAS SECURITIES SERVICES  
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015 C010045 PARIS  
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015 A000046 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH  
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015 C010046 JERSEY  
015 D010046 QATAR  
015 E040046 X  
015 A000047 ING BANK N.V., BUCHAREST BRANCH  
015 B000047 S  
015 C010047 BUCHAREST  
015 D010047 ROMANIA  
015 E040047 X  
015 A000048 ZAO CITIBANK  
015 B000048 S  
015 C010048 MOSCOW  
015 D010048 RUSSIA  
015 E040048 X  
015 A000049 HSBC SAUDI ARABIA LIMITED  
015 B000049 S  
015 C010049 RIYADH  
015 D010049 SAUDI ARABIA  
015 E040049 X  
015 A000050 STANDARD CHARTERED BANK SINGAPORE BRANCH  
015 B000050 S  
015 C010050 SINGAPORE  
015 D010050 SINGAPORE  
015 E040050 X  
PAGE 8  
015 A000051 ING BANK NV, BRATISLAVA BRANCH  
015 B000051 S  
015 C010051 BRATISLAVA  
015 D010051 SLOVAKIA

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015 E040051 X  
015 A000052 STANDARD BANK OF SOUTH AFRICA LIMITED  
015 B000052 S  
015 C010052 JOHANNESBURG  
015 D010052 SOUTH AFRICA  
015 E040052 X  
015 A000053 CITIBANK KOREA INC  
015 B000053 S  
015 C010053 SEOUL  
015 D010053 SOUTH KOREA  
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015 A000054 BANCO BILBAO VIZCAYA AREGENTARIA SA  
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015 C010054 MADRID  
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015 A000055 HSBC, SRI LANKA BRANCH  
015 B000055 S  
015 C010055 COLOMBO  
015 D010055 SRI LANKA  
015 E040055 X  
015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB(PUB)  
015 B000056 S  
015 C010056 STOCKHOLM  
015 D010056 SWEDEN  
015 E040056 X  
015 A000057 CREDIT SUISSE AG  
015 B000057 S  
015 C010057 ZURICH  
015 D010057 SWITZERLAND  
015 E040057 X  
015 A000058 BANK OF TAIWAN  
015 B000058 S  
015 C010058 TAIPEI  
015 D010058 TAIWAN  
015 E040058 X  
015 A000059 HSBC LIMITED, THAILAND BRANCH  
015 B000059 S  
015 C010059 BANGKOK  
015 D010059 THAILAND  
015 E040059 X  
015 A000060 CITIBANK ANONIM SIRKETI  
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015 C010060 ISTANBUL  
015 D010060 TURKEY  
015 E040060 X  
015 A000061 HSBC BANK MIDDLE EAST LIMITED  
PAGE 9  
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015 C010061 DUBAI  
015 D010061 UNITED ARAB EMIRATES  
015 E040061 X  
015 A000062 HSBC BANK PLC  
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015 C010062 LONDON  
015 D010062 UNITED KINGDOM  
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015 A000063 CITIBANK, N.A., CARACAS BRANCH  
015 B000063 S  
015 C010063 CARACAS  
015 D010063 VENEZUELA  
015 E040063 X

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015 A000064 HSBC BANK (VIETNAM) LTD  
015 B000064 S  
015 C010064 HO CHI MINH CITY  
015 D010064 VIETNAM  
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020 A000001 SANFORD C. BERNSTEIN & CO., LLC  
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 A000001 J.P. MORGAN SECURITIES LLC  
022 B000001 13-3299429  
022 C000001 18521  
022 D000001 4090  
022 A000002 CITIGROUP GLOBAL MARKETS INC  
022 B000002 11-2418191  
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022 A000003 BNY MELLON CAPITAL MARKETS, LLC  
022 B000003 23-2384977  
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022 A000004 ALLIANCEBERNSTEIN INVESTMENTS, INC.  
022 B000004 13-3191825  
022 C000004 2526  
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022 A000005 MORGAN KEEGAN & COMPANY, INC  
022 B000005 64-0474907  
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022 A000006 OPPENHEIMER & CO. INC.  
022 B000006 13-5657518  
022 C000006 2793  
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022 A000007 CLEARVIEW TRADING ADVISORS, INC.  
022 B000007 14-1981175  
022 C000007 2000  
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022 A000008 GEORGE K. BAUM & COMPANY  
022 B000008 43-1661917  
022 C000008 1400  
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022 A000009 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
022 B000009 13-5674085  
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| 071     | D000000 |    | 10     |
| 072     | A000000 | 12 |        |
| 072     | B000000 |    | 29197  |
| 072     | C000000 |    | 0      |
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| 072     | E000000 |    | 0      |
| 072     | F000000 |    | 2582   |
| 072     | G000000 |    | 245    |
| 072     | H000000 |    | 0      |
| 072     | I000000 |    | 18     |
| 072     | J000000 |    | 6      |
| 072     | K000000 |    | 0      |
| 072     | L000000 |    | 23     |
| 072     | M000000 |    | 15     |
| 072     | N000000 |    | 16     |
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| 072     | P000000 |    | 0      |
| 072     | Q000000 |    | 0      |
| 072     | R000000 |    | 61     |
| 072     | S000000 |    | 31     |
| 072     | T000000 |    | 0      |
| 072     | U000000 |    | 0      |
| 072     | V000000 |    | 0      |
| 072     | W000000 |    | 399    |
| 072     | X000000 |    | 3396   |
| 072     | Y000000 |    | 0      |
| 072     | Z000000 |    | 25801  |
| 072AA   | 000000  |    | 0      |
| 072BB   | 000000  |    | 5402   |
| 072CC   | 010000  |    | 19076  |
| 072CC   | 020000  |    | 0      |
| 072DD   | 010000  |    | 25682  |
| 072DD   | 020000  |    | 0      |
| 072EE   | 000000  |    | 0      |
| PAGE 15 |         |    |        |
| 073     | A010000 |    | 1.1400 |
| 073     | A020000 |    | 0.0000 |
| 073     | B000000 |    | 0.0000 |
| 073     | C000000 |    | 0.0000 |
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| 074     | D000000 |    | 425319 |
| 074     | E000000 |    | 0      |
| 074     | F000000 |    | 0      |
| 074     | G000000 |    | 0      |
| 074     | H000000 |    | 0      |

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|     |         |                              |
|-----|---------|------------------------------|
| 074 | I000000 | 0                            |
| 074 | J000000 | 2000                         |
| 074 | K000000 | 0                            |
| 074 | L000000 | 9143                         |
| 074 | M000000 | 101                          |
| 074 | N000000 | 436563                       |
| 074 | O000000 | 1400                         |
| 074 | P000000 | 234                          |
| 074 | Q000000 | 0                            |
| 074 | R010000 | 0                            |
| 074 | R020000 | 0                            |
| 074 | R030000 | 0                            |
| 074 | R040000 | 1737                         |
| 074 | S000000 | 100999                       |
| 074 | T000000 | 332193                       |
| 074 | U010000 | 22564                        |
| 074 | U020000 | 0                            |
| 074 | V010000 | 14.72                        |
| 074 | V020000 | 0.00                         |
| 074 | W000000 | 0.0000                       |
| 074 | X000000 | 6490                         |
| 074 | Y000000 | 0                            |
| 075 | A000000 | 0                            |
| 075 | B000000 | 329267                       |
| 076 | 000000  | 16.02                        |
| 077 | A000000 | Y                            |
| 077 | B000000 | Y                            |
| 077 | C000000 | N                            |
| 077 | D000000 | N                            |
| 077 | E000000 | N                            |
| 077 | F000000 | N                            |
| 077 | G000000 | N                            |
| 077 | H000000 | N                            |
| 077 | I000000 | N                            |
| 077 | J000000 | N                            |
| 077 | K000000 | N                            |
| 077 | L000000 | N                            |
| 077 | M000000 | N                            |
| 077 | N000000 | N                            |
|     | PAGE    | 16                           |
| 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 | 57                           |
| 082 | A000000 | N                            |
| 082 | B000000 | 0                            |
| 083 | A000000 | N                            |
| 083 | B000000 | 0                            |
| 084 | A000000 | N                            |
| 084 | B000000 | 0                            |
| 085 | A000000 | N                            |
| 085 | B000000 | N                            |
| 086 | A010000 | 69                           |
| 086 | A020000 | 1043                         |
| 086 | B010000 | 0                            |
| 086 | B020000 | 0                            |

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|           |              |                            |
|-----------|--------------|----------------------------|
| 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      | 723763108                  |
| 087       | A030000      | MHI                        |
| 087       | B010000      | PREFERRED STOCK - SERIES A |
| 087       | B020000      | 723763207                  |
| 087       | C010000      | PREFERRED STOCK - SERIES B |
| 087       | C020000      | 723763306                  |
| 088       | A000000      | N                          |
| 088       | B000000      | N                          |
| 088       | C000000      | N                          |
| 088       | D000000      | Y                          |
| SIGNATURE | MARK BRADLEY |                            |
| TITLE     | TREASURER    |                            |