

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

Form NSAR-B

October 28, 2016

PAGE 1  
000 B000000 08/31/2016  
000 C000000 1045126  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
000 J000000 A  
001 A000000 BLACKROCK MUNIHOLDINGS INVEST. QUALITY FUND  
001 B000000 811-08349  
001 C000000 8004417762  
002 A000000 100 BELLEVUE PARKWAY  
002 B000000 WILMINGTON  
002 C000000 DE  
002 D010000 19809  
003 000000 N  
004 000000 N  
005 000000 N  
006 000000 N  
007 A000000 N  
007 B000000 0  
007 C010100 1  
008 A000001 BLACKROCK ADVISORS, LLC  
008 B000001 A  
008 C000001 801-47710  
008 D010001 WILMINGTON  
008 D020001 DE  
008 D030001 19809  
012 A000001 COMPUTERSHARE TRUST COMPANY, N.A. (COMMON)  
012 B000001 85-11340  
012 C010001 CANTON  
012 C020001 MA  
012 C030001 02021  
012 A000002 THE BANK OF NEW YORK MELLON (PREFERRED)  
012 B000002 85-05006  
012 C010002 NEW YORK  
012 C020002 NY  
012 C030002 10289  
013 A000001 DELOITTE & TOUCHE LLP  
013 B010001 BOSTON  
013 B020001 MA  
013 B030001 02116  
014 A000001 BLACKROCK EXECUTION SERVICES  
014 B000001 8-48719  
014 A000002 BLACKROCK INVESTMENTS, LLC  
014 B000002 8-48436  
014 A000003 HARRIS WILLIAMS LLC  
014 B000003 8-53380  
014 A000004 PNC CAPITAL MARKETS, INC.  
014 B000004 8-32493  
PAGE 2  
014 A000005 PNC INVESTMENTS LLC  
014 B000005 8-66195  
014 A000006 SOLEBURY CAPITAL, LLC  
014 B000006 8-67548  
015 A000001 STATE STREET BANK AND TRUST COMPANY  
015 B000001 C

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015 C010001 BOSTON  
015 C020001 MA  
015 C030001 02110  
015 E010001 X  
018 000000 Y  
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019 B000000 273  
019 C000000 BLKRRKADVSR  
020 A000001 BANK OF AMERICA CORP  
020 B000001 56-0906609  
020 C000001 6  
021 000000 6  
022 A000001 BLACKROCK LIQUIDITY FUNDS, MUNICASH  
022 B000001 52-0983343  
022 C000001 112202  
022 D000001 108725  
022 A000002 MORGAN STANLEY  
022 B000002 36-3145972  
022 C000002 77176  
022 D000002 33827  
022 A000003 FFI INSTITUTIONAL TAX-EXEMPT FUND  
022 B000003 22-2509978  
022 C000003 53172  
022 D000003 56847  
022 A000004 J.P. MORGAN SECURITIES INC.  
022 B000004 13-3299429  
022 C000004 37418  
022 D000004 26686  
022 A000005 CITIGROUP GLOBAL MARKETS INC  
022 B000005 11-2418191  
022 C000005 32928  
022 D000005 29895  
022 A000006 JEFFERIES & COMPANY INC  
022 B000006 95-2622900  
022 C000006 20864  
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022 A000007 OPPENHEIMER + CO. INC.  
022 B000007 13-2798343  
022 C000007 24701  
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022 A000008 BANK OF AMERICA CORP  
022 B000008 56-0906609  
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022 D000008 1755  
022 A000009 PERSHING LLC  
PAGE 3  
022 B000009 13-2741729  
022 C000009 15914  
022 D000009 23309  
022 A000010 BARCLAYS CAPITAL INC.  
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023 C000000 493056  
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026 C000000 N  
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 052 000000 N  
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 PAGE 5  
 053 C000000 N  
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| 067 | 000000  | N      |
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| 068 | B000000 | N      |
| 069 | 000000  | N      |
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| 070 | D020000 | N      |
| 070 | E010000 | Y      |
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| 070 | F010000 | N      |
| 070 | F020000 | N      |
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| 070 | I010000 | N      |
| 070 | I020000 | N      |
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| 070 | O010000 | Y      |
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| 070 | P010000 | Y      |
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072 G000000 111  
 072 H000000 0  
 072 I000000 48  
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 074 S000000 274179  
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074 V010000 15.86  
 074 V020000 0.00  
 074 W000000 0.0000  
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| 074       | Y000000         | 36469                                    |
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| 077       | Q010000         | N  |
| 078       | 000000          | N  |
| 080       | A000000         | FEDERAL INSURANCE COMPANY                |
| 080       | B000000         | ST. PAUL FIRE & MARINE INSURANCE COMPANY |
| 080       | C000000         | 61025                                    |
| 081       | A000000         | Y  |
| 081       | B000000         | 74                                       |
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| 088       | B000000         | N  |
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| 088       | D000000         | Y  |
| SIGNATURE | NEAL J. ANDREWS |  |
| TITLE     | CFO             |  |