

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  
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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  
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020 A000001 BANK OF AMERICA CORP  
020 B000001 56-0906609  
020 C000001 6  
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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  
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022 A000003 FFI INSTITUTIONAL TAX-EXEMPT FUND  
022 B000003 22-2509978  
022 C000003 53172  
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022 A000004 J.P. MORGAN SECURITIES INC.  
022 B000004 13-3299429  
022 C000004 37418  
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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  
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022 A000010 BARCLAYS CAPITAL INC.  
022 B000010 13-3297824  
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023 C000000 493056  
023 D000000 444108  
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 072 I000000 48  
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PAGE 7

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PAGE 8

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080	B000000	ST. PAUL FIRE & MARINE INSURANCE COMPANY
080	C000000	61025
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087	A030000	MFL
087	B010000	PREFERRED STOCK
088	A000000	N
088	B000000	N
088	C000000	N
088	D000000	Y
SIGNATURE	NEAL J. ANDREWS	
TITLE	CFO	