# BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND Form N-O

July 23, 2015

#### **UNITED STATES**

#### SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### **FORM N-Q**

### QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED

### MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number: 811-08349

Name of Fund: BlackRock MuniHoldings Investment Quality Fund (MFL)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniHoldings

Investment Quality Fund, 55 East 52<sup>nd</sup> Street, New York, NY 10055

Registrant s telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 08/31/2015

Date of reporting period: 05/31/2015

Item 1 Schedule of Investments

 $Schedule\ of\ Investments\ {\tt May\ 31,\ 2015\ (Unaudited)}$ 

BlackRock MuniHoldings Investment Quality Fund (MFL)

	Par		
Municipal Bonds	(000)	Value	
Alabama 3.5%			
City of Birmingham Alabama Special Care Facilities Financing Authority, RB, Children s Hospital			
(AGC):			
6.13%, 6/01/34	\$ 4,980	\$ 5,760,715	
6.00%, 6/01/39	10,995	12,638,642	
City of Selma Alabama IDB, RB, Gulf Opportunity Zone, International Paper Co. Project, Series A,		1000 555	
5.38%, 12/01/35	1,745	1,966,755	
		20,366,112	
California 22.8%			
California Educational Facilities Authority, RB, University of Southern California, Series A, 5.25%,			
10/01/38	8,920	9,975,058	
California Health Facilities Financing Authority, RB, Sutter Health, Series B, 6.00%, 8/15/42	5,370	6,379,130	
City & County of San Francisco California Airports Commission, Refunding ARB, 2nd Series A,			
AMT:			
5.50%, 5/01/28	3,330	3,903,692	
5.25%, 5/01/33	2,600	2,931,526	
City of Manteca California Financing Authority, RB, Manteca Sewer (AGC):			
5.63%, 12/01/33	2,450	2,837,223	
5.75%, 12/01/36	3,285	3,797,230	
City of San Jose California, Refunding ARB, Series A-1, AMT, 5.75%, 3/01/34	4,450	5,063,833	
County of Sacramento California, ARB, Senior Series A (AGC), 5.50%, 7/01/41	5,600	6,251,168	
Kern Community College District, GO, Safety, Repair & Improvement, Election of 2002, Series C,			
5.50%, 11/01/33	4,365	5,129,137	
Los Angeles California Unified School District, GO, Election of 2002, Series D, 5.25%, 7/01/25	3,485	4,012,176	
Los Angeles Community College District California, GO:			
Election of 2001, Series A (NPFGC), 5.00%, 8/01/17 (a)	10,000	10,896,800	
Election of 2008, Series C, 5.25%, 8/01/39	3,375	3,932,989	
	Par		
Municipal Bonds	(000)	Value	
California (concluded)	(000)	v aruc	
Camorma (Concluded)			
Los Angeles Department of Water & Power RR Power System Sub-Series A-1 5.25% 7/01/38	\$ 5,000	\$ 5,540,700	
Los Angeles Department of Water & Power, RB, Power System, Sub-Series A-1, 5.25%, 7/01/38  Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (ACC) 5.50%	\$ 5,000	\$ 5,540,700	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%,	,		
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39	2,980	3,372,049	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39 Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34	,		
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39 Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34 San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%,	2,980 4,110	3,372,049 4,761,106	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34	2,980 4,110 4,690	3,372,049 4,761,106 5,356,684	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39	2,980 4,110	3,372,049 4,761,106	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39  State of California Public Works Board, LRB, Various Capital Projects, Series I:	2,980 4,110 4,690 15,000	3,372,049 4,761,106 5,356,684 17,341,950	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39  State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30	2,980 4,110 4,690 15,000 4,500	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39  State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30  5.50%, 11/01/31	2,980 4,110 4,690 15,000 4,500 2,615	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39  State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30  5.50%, 11/01/31  5.50%, 11/01/33	2,980 4,110 4,690 15,000 4,500	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39  State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30  5.50%, 11/01/31  5.50%, 11/01/33  State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F,	2,980 4,110 4,690 15,000 4,500 2,615 2,000	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39  State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30  5.50%, 11/01/31  5.50%, 11/01/33  State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33	2,980 4,110 4,690 15,000 4,500 2,615	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39  State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30  5.50%, 11/01/31  5.50%, 11/01/33  State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33  Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%,	2,980 4,110 4,690 15,000 4,500 2,615 2,000 2,240	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360 2,609,600	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39 Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34 San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34 State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39 State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30 5.50%, 11/01/31 5.50%, 11/01/33 State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33 Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%, 8/01/40	2,980 4,110 4,690 15,000 4,500 2,615 2,000 2,240 1,685	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360 2,609,600 1,980,616	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39  State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30  5.50%, 11/01/31  5.50%, 11/01/33  State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33  Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%,	2,980 4,110 4,690 15,000 4,500 2,615 2,000 2,240	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360 2,609,600	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39 Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34 San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34 State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39 State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30 5.50%, 11/01/31 5.50%, 11/01/33 State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33 Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%, 8/01/40	2,980 4,110 4,690 15,000 4,500 2,615 2,000 2,240 1,685	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360 2,609,600 1,980,616 14,002,485	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39  Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34  San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34  State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39  State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30  5.50%, 11/01/31  5.50%, 11/01/33  State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33  Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%, 8/01/40  University of California, Refunding RB, The Regents of Medical Center, Series J, 5.25%, 5/15/38	2,980 4,110 4,690 15,000 4,500 2,615 2,000 2,240 1,685	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360 2,609,600 1,980,616	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39 Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34 San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34 State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39 State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30 5.50%, 11/01/31 5.50%, 11/01/33 State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33 Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%, 8/01/40 University of California, Refunding RB, The Regents of Medical Center, Series J, 5.25%, 5/15/38	2,980 4,110 4,690 15,000 4,500 2,615 2,000 2,240 1,685	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360 2,609,600 1,980,616 14,002,485	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39 Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34 San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34 State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39 State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30 5.50%, 11/01/31 5.50%, 11/01/33 State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33 Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%, 8/01/40 University of California, Refunding RB, The Regents of Medical Center, Series J, 5.25%, 5/15/38  Colorado 2.1% City & County of Denver Colorado Airport System, ARB, Series A, AMT:	2,980 4,110 4,690 15,000 4,500 2,615 2,000 2,240 1,685 12,250	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360 2,609,600 1,980,616 14,002,485 130,930,692	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39 Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34 San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34 State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39 State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30 5.50%, 11/01/31 5.50%, 11/01/33 State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33 Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%, 8/01/40 University of California, Refunding RB, The Regents of Medical Center, Series J, 5.25%, 5/15/38  Colorado 2.1% City & County of Denver Colorado Airport System, ARB, Series A, AMT: 5.50%, 11/15/28	2,980 4,110 4,690 15,000 4,500 2,615 2,000 2,240 1,685 12,250	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360 2,609,600 1,980,616 14,002,485 130,930,692	
Los Angeles Municipal Improvement Corp., Refunding LRB, Real Property, Series B (AGC), 5.50%, 4/01/39 Redondo Beach Unified School District, GO, Election of 2008, Series E, 5.50%, 8/01/34 San Diego Public Facilities Financing Authority Water, Refunding RB, Series B (AGC), 5.38%, 8/01/34 State of California, GO, Various Purposes (AGC), 5.50%, 11/01/39 State of California Public Works Board, LRB, Various Capital Projects, Series I: 5.50%, 11/01/30 5.50%, 11/01/31 5.50%, 11/01/33 State of California Public Works Board, RB, Department of Corrections & Rehabilitation, Series F, 5.25%, 9/01/33 Township of Washington California Health Care District, GO, Election of 2004, Series B, 5.50%, 8/01/40 University of California, Refunding RB, The Regents of Medical Center, Series J, 5.25%, 5/15/38  Colorado 2.1% City & County of Denver Colorado Airport System, ARB, Series A, AMT:	2,980 4,110 4,690 15,000 4,500 2,615 2,000 2,240 1,685 12,250	3,372,049 4,761,106 5,356,684 17,341,950 5,372,325 3,106,855 2,376,360 2,609,600 1,980,616 14,002,485 130,930,692	

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

### BlackRock MuniHoldings Investment Quality Fund (MFL)

	Par		
Municipal Bonds	(000)	Value	
Colorado (concluded)			
Colorado Health Facilities Authority, RB, Hospital, NCMC, Inc. Project, Series B (AGM), 6.00%, 5/15/26	\$ 5,925	\$ 6,667,106	
FI 11. 0.50		12,420,562	
Florida 9.5% City of Jacksonville Florida, Refunding RB, Series A, 5.25%, 10/01/33	1,250	1,435,213	
County of Hillsborough Florida Aviation Authority, Refunding ARB, Tampa International Airport,	1,230	1,433,213	
Series A, AMT:			
5.50%, 10/01/29	5,360	6,141,756	
5.25%, 10/01/30	3,255	3,646,251	
County of Lee Florida, Refunding ARB, Series A, AMT, 5.38%, 10/01/32	7,100	7,770,595	
County of Manatee Florida Housing Finance Authority, RB, S/F Housing, Series A, AMT (Ginnie	.,	.,	
Mae, Fannie Mae & Freddie Mac), 5.90%, 9/01/40	350	356,419	
County of Miami-Dade Florida Aviation, Refunding ARB, AMT, Series A:			
Miami International Airport (AGM), 5.50%, 10/01/41	3,500	3,893,960	
5.00%, 10/01/31	5,465	6,032,486	
County of Miami-Dade Florida, Refunding RB, Water & Sewer System, Series B, 5.25%, 10/01/29	2,870	3,299,782	
County of Miami-Dade Florida, Seaport Department, RB:			
Series A, 5.38%, 10/01/33	3,145	3,542,685	
Series B, AMT, 6.25%, 10/01/38	1,405	1,716,390	
Series B, AMT, 6.00%, 10/01/42	1,885	2,251,764	
County of Osceola Florida, RB, Sales Tax, Series A:		- 100 000	
5.00%, 10/01/40	2,165	2,400,898	
5.00%, 10/01/44	4,970	5,468,392	
Florida Housing Finance Corp., Refunding RB, S/F Housing, Homeowner Mortgage, Series 2,	2.065	2.092.605	
AMT (NPFGC), 5.90%, 7/01/29	3,065	3,083,605	
	Par		
Manisiral Banda		Yalaa	
Municipal Bonds Florida (concluded)	(000)	Value	
Florida (concluded)	(000)		
•		<b>Value</b> \$ 3,688,658	
Florida (concluded)	(000)	\$ 3,688,658	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32	(000)		
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8%	(000)	\$ 3,688,658	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT:	( <b>000</b> ) \$ 3,225	\$ 3,688,658 54,728,854	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25	( <b>000</b> ) \$ 3,225	\$ 3,688,658 54,728,854 1,556,320	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT:	( <b>000</b> ) \$ 3,225	\$ 3,688,658 54,728,854	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25	( <b>000</b> ) \$ 3,225	\$ 3,688,658 54,728,854 1,556,320 2,856,875	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26	( <b>000</b> ) \$ 3,225	\$ 3,688,658 54,728,854 1,556,320	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9%	(000) \$ 3,225 1,350 2,500	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33	( <b>000</b> ) \$ 3,225	\$ 3,688,658 54,728,854 1,556,320 2,856,875	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien:	(000) \$ 3,225 1,350 2,500 4,355	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39	(000) \$ 3,225 1,350 2,500 4,355 7,395	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39	(000) \$ 3,225 1,350 2,500 4,355 7,395	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41 City of Chicago Illinois, Refunding RB, Sales Tax, Series A, 5.25%, 1/01/38	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41 City of Chicago Illinois, Refunding RB, Sales Tax, Series A, 5.25%, 1/01/38 City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT:	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800 2,445	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024 2,568,350	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41 City of Chicago Illinois, Refunding RB, Sales Tax, Series A, 5.25%, 1/01/38 City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT: 5.50%, 1/01/30	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800 2,445 6,500	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024 2,568,350 7,258,680	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41 City of Chicago Illinois, Refunding RB, Sales Tax, Series A, 5.25%, 1/01/38 City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT: 5.50%, 1/01/30 5.50%, 1/01/32 City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, AMT: 5.50%, 1/01/32 City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/41	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800 2,445 6,500	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024 2,568,350 7,258,680	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41 City of Chicago Illinois, Refunding RB, Sales Tax, Series A, 5.25%, 1/01/38 City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT: 5.50%, 1/01/30 5.50%, 1/01/32 City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/41 City of Chicago Illinois Transit Authority, RB:	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800 2,445 6,500 6,275	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024 2,568,350 7,258,680 6,963,618	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41 City of Chicago Illinois, Refunding RB, Sales Tax, Series A, 5.25%, 1/01/38 City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT: 5.50%, 1/01/30 5.50%, 1/01/32 City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/41 City of Chicago Illinois Transit Authority, RB: Federal Transit Administration, Section 5309, Series A (AGC), 6.00%, 6/01/26	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800 2,445 6,500 6,275	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024 2,568,350 7,258,680 6,963,618 8,436,960 7,047,919	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41 City of Chicago Illinois, Refunding RB, Sales Tax, Series A, 5.25%, 1/01/38 City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT: 5.50%, 1/01/30 5.50%, 1/01/32 City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/41 City of Chicago Illinois Transit Authority, RB: Federal Transit Administration, Section 5309, Series A (AGC), 6.00%, 6/01/26 Sales Tax Receipts, 5.25%, 12/01/36	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800 2,445 6,500 6,275 8,020 6,315 1,960	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024 2,568,350 7,258,680 6,963,618 8,436,960 7,047,919 2,076,091	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41 City of Chicago Illinois, Refunding RB, Sales Tax, Series A, 5.25%, 1/01/38 City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT: 5.50%, 1/01/30 5.50%, 1/01/32 City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, AMT; 5.00%, 1/01/41 City of Chicago Illinois Transit Authority, RB: Federal Transit Administration, Section 5309, Series A (AGC), 6.00%, 6/01/26 Sales Tax Receipts, 5.25%, 12/01/36 Sales Tax Receipts, 5.25%, 12/01/40	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800 2,445 6,500 6,275 8,020 6,315 1,960 10,960	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024 2,568,350 7,258,680 6,963,618 8,436,960 7,047,919 2,076,091 11,532,660	
Florida (concluded) Reedy Creek Improvement District, GO, Series A, 5.25%, 6/01/32  Hawaii 0.8% State of Hawaii, Department of Transportation, COP, AMT: 5.25%, 8/01/25 5.25%, 8/01/26  Illinois 26.9% Chicago Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT, 5.00%, 1/01/33 City of Chicago Illinois, GARB, O Hare International Airport, 3rd Lien: Series A, 5.75%, 1/01/39 Series C, 6.50%, 1/01/41 City of Chicago Illinois, Refunding RB, Sales Tax, Series A, 5.25%, 1/01/38 City of Chicago Illinois Midway International Airport, Refunding ARB, 2nd Lien, Series A, AMT: 5.50%, 1/01/30 5.50%, 1/01/32 City of Chicago Illinois Midway International Airport, Refunding GARB, 2nd Lien, Series A, AMT; 5.00%, 1/01/41 City of Chicago Illinois Transit Authority, RB: Federal Transit Administration, Section 5309, Series A (AGC), 6.00%, 6/01/26 Sales Tax Receipts, 5.25%, 12/01/36	(000) \$ 3,225 1,350 2,500 4,355 7,395 16,800 2,445 6,500 6,275 8,020 6,315 1,960	\$ 3,688,658 54,728,854 1,556,320 2,856,875 4,413,195 4,665,512 8,402,865 20,226,024 2,568,350 7,258,680 6,963,618 8,436,960 7,047,919 2,076,091	

City of Chicago Illinois Transit Authority, Refunding RB, Federal Transit Administration, Section 5309 (AGM), 5.00%, 6/01/28

7,735

8,129,021

2 BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

### BlackRock MuniHoldings Investment Quality Fund (MFL)

	Par		
Municipal Bonds	(000)	Value	
Illinois (concluded)	, í		
County of Cook Illinois Community College District No. 508, GO, City College of Chicago:			
5.50%, 12/01/38	\$ 2,895	\$ 3,252,069	
5.25%, 12/01/43	6,305	6,920,872	
Illinois Finance Authority, RB:			
Carle Foundation, Series A, 6.00%, 8/15/41	4,000	4,680,120	
University of Chicago, Series B, 5.50%, 7/01/18 (a)	10,000	11,277,200	
Railsplitter Tobacco Settlement Authority, RB:			
5.50%, 6/01/23	4,365	5,072,130	
6.00%, 6/01/28	1,245	1,469,785	
State of Illinois, GO:			
5.25%, 2/01/31	2,700	2,812,401	
5.25%, 2/01/32	5,525	5,731,027	
5.50%, 7/01/33	7,820	8,388,827	
5.50%, 7/01/38	1,295	1,376,520	
5.00%, 2/01/39	5,000	5,048,700	
	.,	7, 2, 1, 1	
		154,827,578	
Indiana 3.6%			
Indiana Finance Authority, RB, Private Activity Bond, Ohio River Bridges, Series A, AMT, 5.00%,			
7/01/40	1,240	1,303,922	
Indiana Municipal Power Agency, Refunding RB, Series A:			
5.25%, 1/01/32	1,500	1,717,575	
5.25%, 1/01/33	1,500	1,716,435	
Indianapolis Local Public Improvement Bond Bank, Refunding RB, Waterworks Project, Series A (AGC), 5.50%, 1/01/38	14,105	15,931,597	
(AGC), 5.50 /0, 1101150	14,103	13,731,371	
		20,669,529	
Louisiana 1.9%			
City of New Orleans Louisiana Aviation Board, RB, Series B, AMT, 5.00%, 1/01/45	4,995	5,372,922	
City of New Orleans Louisiana Aviation Board, Refunding GARB, Restructuring (AGC):			
Series A-1, 6.00%, 1/01/23	500	573,410	
Series A-2, 6.00%, 1/01/23	720	822,470	
	Par		
Municipal Bonds	(000)	Value	
Louisiana (concluded)	(000)	v aluc	
Tobacco Settlement Financing Corp., Refunding RB, Asset-Backed, Series A, 5.50%, 5/15/29	\$ 3,735	\$ 4,116,456	
		10,885,258	
Massachusetts 0.5%		10,005,250	
Massachusetts Educational Financing Authority, RB, Education Loan, Issue I, AMT:			
5.00%, 1/01/26	820	906,764	
5.00%, 1/01/27	2,000	2,196,360	
5.00 /v, 1/01/27	2,000	2,190,300	
		3,103,124	
Michigan 3.6%			
City of Detroit Michigan Water Supply System, RB, 2nd Lien, Series B (AGM), 6.25%, 7/01/36	6,320	6,891,012	
Hudsonville Public Schools, GO, School Building & Site (Q-SBLF), 5.25%, 5/01/41	6,015	6,583,538	
Royal Oak Hospital Finance Authority Michigan, Refunding RB, William Beaumont Hospital, Series			
V, 8.25%, 9/01/18 (a)	5,780	7,090,095	
		20,564,645	
Minnesota 2.0%			
City of Minneapolis Minnesota, Refunding RB, Fairview Health Services, Series B (AGC), 6.50%,			
11/15/38	9,900	11,456,775	

Mississippi 2.8%			
Mississippi Development Bank, RB, Jackson Water & Sewer System Project (AGM):			
6.88%, 12/01/40	6,405	8,204,741	
Special Obligation, 6.75%, 12/01/31	3,775	4,876,771	
Special Obligation, 6.75%, 12/01/33	2,350	3,024,568	
		16,106,080	
Nebraska 1.5%			
Omaha Public Power District, Refunding RB, Series A, 5.25%, 2/01/46	7,500	8,568,300	
Nevada 5.4%			
County of Clark Nevada, ARB, Las Vegas-McCarran International Airport, Series A (AGM), 5.25%,			
7/01/39	11,175	12,514,771	

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND MAY 31, 2015

3

### BlackRock MuniHoldings Investment Quality Fund (MFL)

	Par	
Municipal Bonds	(000)	Value
Nevada (concluded)	(000)	vaiuc
County of Clark Nevada, GO, Limited Tax, 5.00%, 6/01/38	\$ 11,245	\$ 12,277,966
County of Clark Nevada Water Reclamation District, GO, Series A, 5.25%, 7/01/34	5,850	6,611,260
· · · · · · · · · · · · · · · · · · ·	- ,	.,. ,
		31,403,997
New Jersey 7.3%		31,403,331
New Jersey EDA, RB:		
School Facilities Construction (AGC), 6.00%, 12/15/18 (a)	4,280	4,980,979
School Facilities Construction (AGC), 6.00%, 12/15/34	70	80,273
The Goethals Bridge Replacement Project, AMT, 5.38%, 1/01/43	7,000	7,619,220
The Goethals Bridge Replacement Project, AMT (AGM), 5.00%, 1/01/31	2,425	2,686,124
New Jersey Health Care Facilities Financing Authority, RB, Virtua Health, Series A (AGC), 5.50%,	, -	,,,,,
7/01/38	6,500	7,205,250
New Jersey Higher Education Student Assistance Authority, Refunding RB, Series 1, AMT, 5.75%,		
12/01/28	4,475	4,913,147
New Jersey Transportation Trust Fund Authority, RB, Transportation System:		
Series A, 5.50%, 6/15/41	5,410	5,649,771
Series AA, 5.50%, 6/15/39	8,175	8,636,724
		41,771,488
New York 8.0%		,,
City of New York New York Municipal Water Finance Authority, Refunding RB:		
2nd General Resolution, Fiscal 2009, Series EE, 5.25%, 6/15/40	7,500	8,523,225
Water & Sewer System, 2nd General Resolution, Series EE, 5.38%, 6/15/43	3,475	4,066,723
Water & Sewer System, Series FF-2, 5.50%, 6/15/40	4,000	4,603,200
City of New York New York Transitional Finance Authority, BARB, Fiscal 2009, Series S-4 (AGC),	ĺ	, ,
5.50%, 1/15/29	4,000	4,560,680
County of Nassau New York, GO, General Improvement, Series B, 5.00%, 4/01/35 (b)	3,000	3,320,190
	Par	
Municipal Bonds		Value
Municipal Bonds New York (concluded)	(000)	Value
		Value
New York (concluded)		<b>Value</b> \$ 4,545,120
New York (concluded) Metropolitan Transportation Authority, RB:	(000)	
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38	( <b>000</b> ) \$ 4,000	\$ 4,545,120
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39	( <b>000</b> ) \$ 4,000	\$ 4,545,120
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%,	(000) \$ 4,000 4,490	\$ 4,545,120 5,099,787
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%,	(000) \$ 4,000 4,490	\$ 4,545,120 5,099,787 11,222,900
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%,	(000) \$ 4,000 4,490	\$ 4,545,120 5,099,787
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36	(000) \$ 4,000 4,490	\$ 4,545,120 5,099,787 11,222,900
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5%	\$ 4,000 4,490 10,000	\$ 4,545,120 5,099,787 11,222,900
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1:	(000) \$ 4,000 4,490	\$ 4,545,120 5,099,787 11,222,900 45,941,825
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31	\$ 4,000 4,490 10,000	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31	\$ 4,000 4,490 10,000	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31	\$ 4,000 4,490 10,000	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32  Pennsylvania 2.4%	\$ 4,000 4,490 10,000	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32	\$ 4,000 4,490 10,000	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32  Pennsylvania 2.4% Pennsylvania Economic Development Financing Authority, RB, AMT, Pennsylvania Bridges Finco LP:	\$ 4,000 4,490 10,000 5,145 2,250	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143 8,477,037
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32  Pennsylvania 2.4% Pennsylvania Economic Development Financing Authority, RB, AMT, Pennsylvania Bridges Finco LP: 5.00%, 12/31/34 5.00%, 12/31/38	\$ 4,000 4,490 10,000 5,145 2,250	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143 8,477,037
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32  Pennsylvania 2.4% Pennsylvania Economic Development Financing Authority, RB, AMT, Pennsylvania Bridges Finco LP: 5.00%, 12/31/34	\$ 4,000 4,490 10,000 5,145 2,250 3,700 865	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143 8,477,037 4,007,877 928,975
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32  Pennsylvania 2.4% Pennsylvania Economic Development Financing Authority, RB, AMT, Pennsylvania Bridges Finco LP: 5.00%, 12/31/34 5.00%, 12/31/38 Pennsylvania Turnpike Commission, RB, Sub-Series A, 6.00%, 12/01/16 (a)	\$ 4,000 4,490 10,000 5,145 2,250 3,700 865 4,945	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143 8,477,037 4,007,877 928,975 5,348,364
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32  Pennsylvania 2.4% Pennsylvania Economic Development Financing Authority, RB, AMT, Pennsylvania Bridges Finco LP: 5.00%, 12/31/34 5.00%, 12/31/38 Pennsylvania Turnpike Commission, RB, Sub-Series A, 6.00%, 12/01/16 (a)	\$ 4,000 4,490 10,000 5,145 2,250 3,700 865 4,945	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143 8,477,037 4,007,877 928,975 5,348,364 3,404,100
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32  Pennsylvania 2.4% Pennsylvania Economic Development Financing Authority, RB, AMT, Pennsylvania Bridges Finco LP: 5.00%, 12/31/34 5.00%, 12/31/38 Pennsylvania Turnpike Commission, RB, Sub-Series A, 6.00%, 12/01/16 (a) Township of Bristol Pennsylvania School District, GO, 5.25%, 6/01/37	\$ 4,000 4,490 10,000 5,145 2,250 3,700 865 4,945	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143 8,477,037 4,007,877 928,975 5,348,364
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32  Pennsylvania 2.4% Pennsylvania Economic Development Financing Authority, RB, AMT, Pennsylvania Bridges Finco LP: 5.00%, 12/31/34 5.00%, 12/31/38 Pennsylvania Turnpike Commission, RB, Sub-Series A, 6.00%, 12/01/16 (a) Township of Bristol Pennsylvania School District, GO, 5.25%, 6/01/37	\$ 4,000 4,490 10,000 5,145 2,250 3,700 865 4,945	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143 8,477,037 4,007,877 928,975 5,348,364 3,404,100
New York (concluded) Metropolitan Transportation Authority, RB: Series A, 5.25%, 11/15/38 Series A-1, 5.25%, 11/15/39 Port Authority of New York & New Jersey, Refunding ARB, Consolidated, 166th Series, 5.25%, 7/15/36  Ohio 1.5% State of Ohio Turnpike Commission, RB, Junior Lien, Infrastructure Projects, Series A-1: 5.25%, 2/15/31 5.25%, 2/15/32  Pennsylvania 2.4% Pennsylvania Economic Development Financing Authority, RB, AMT, Pennsylvania Bridges Finco LP: 5.00%, 12/31/34 5.00%, 12/31/38 Pennsylvania Turnpike Commission, RB, Sub-Series A, 6.00%, 12/01/16 (a) Township of Bristol Pennsylvania School District, GO, 5.25%, 6/01/37	\$ 4,000 4,490 10,000 5,145 2,250 3,700 865 4,945 3,000	\$ 4,545,120 5,099,787 11,222,900 45,941,825 5,905,894 2,571,143 8,477,037 4,007,877 928,975 5,348,364 3,404,100 13,689,316

5.25%, 7/01/25	4,490	5,202,024	
5.50%, 7/01/38	3,000	3,356,640	
6.00%, 7/01/38	5,270	6,086,587	
5.50%, 7/01/41	4,170	4,659,558	
		27,054,908	
Texas 16.8%			
Central Texas Transportation Commission Turnpike System, Refunding RB, Series C, 5.00%, 8/15/42	4,000	4,261,560	

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND MAY 31, 2015

### BlackRock MuniHoldings Investment Quality Fund (MFL)

	Par	
Municipal Bonds	(000)	Value
Texas (concluded)	(000)	v and
City of Beaumont Texas, GO, Certificates of Obligation, 5.25%, 3/01/37	\$ 4,190	\$ 4,757,116
City of Houston Texas Utility System, Refunding RB, Combined 1st Lien, Series A (AGC):	, , , , ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6.00%, 11/15/35	12,700	14,988,667
6.00%, 11/15/36	9,435	11,135,281
5.38%, 11/15/38	5,000	5,658,750
County of Tarrant Texas Cultural Education Facilities Finance Corp., Refunding RB, Christus Health,	.,	,,,,,,
Series A (AGC):	220	257.000
6.50%, 1/01/19 (a)	320	376,800
6.50%, 7/01/37	1,450	1,653,754
Dallas Area Rapid Transit, Refunding RB, Senior Lien, 5.25%, 12/01/38 Dallas-Fort Worth International Airport, ARB, Joint Improvement, AMT:	9,110	10,143,803
Series A, 5.00%, 11/01/38	5,580	5,885,561
Series H, 5.00%, 11/01/37	4,575	4,879,741
Lower Colorado River Authority, Refunding RB, 5.50%, 5/15/33	3,735	4,345,897
North Texas Tollway Authority, Refunding RB, 1st Tier:		
(AGM), 6.00%, 1/01/43	5,555	6,481,074
Series K-1 (AGC), 5.75%, 1/01/38	12,150	13,702,041
Red River Education Financing Corp., RB, Texas Christian University Project, 5.25%, 3/15/38	7,170	8,150,067
		96,420,112
Virginia 1.2%		
City of Lexington Virginia IDA, RB, Washington & Lee University, 5.00%, 1/01/43	1,750	1,923,740
Virginia Public School Authority, RB, Fluvanna County School Financing, 6.50%, 12/01/18 (a)	4,300	5,084,621
Washington 1.5%		7,008,361
City of Seattle Washington Municipal Light & Power, Refunding RB, Series A, 5.25%, 2/01/36	4,200	4,740,750
eky of beautie Washington Manteput Eight & Fower, Retailing RB, Berles H, 3.25 %, 2/01/30	Par	1,710,730
Municipal Bonds	(000)	Value
Washington (concluded)	ì í	
State of Washington, GO, Various Purposes, Series B, 5.25%, 2/01/36	\$ 3,290	\$ 3,778,828
		8,519,578
Total Municipal Bonds 130.3%		749,327,326
Municipal Bonds Transferred to		
Tanday Ontion Pand Tweete (a)		
Tender Option Bond Trusts (c) California 2.0%		
California State University, Refunding RB, Systemwide, Series A (AGM), 5.00%, 11/01/32	7,960	8,503,190
Los Angeles Unified School District California, GO, Series I, 5.00%, 1/01/34	2,400	2,702,928
Los Aligeles Officed School District Camornia, GO, Series 1, 3.00%, 1/01/34	2,400	2,702,928
		11,206,118
District of Columbia 0.7%		
District of Columbia Water & Sewer Authority, Refunding RB, Senior Lien, Series A, 6.00%,		
10/01/18 (a)(d)	3,378	3,913,544
Florida 2.2%	- ,	-
County of Hillsborough Florida Aviation Authority, ARB, Tampa International Airport, Series A,	10.657	11 701 250
AMT (AGC), 5.50%, 10/01/38  County of Los Florida Hayoing Finance Authority, P.P. S/F Hayoing, Multi-County Program, Sories	10,657	11,791,250
County of Lee Florida Housing Finance Authority, RB, S/F Housing, Multi-County Program, Series A-2, AMT (Ginnie Mae), 6.00%, 9/01/40	1,116	1,134,910
		12,926,160

Indiana 1.8%		
Indiana Health & Educational Facilities Financing Authority, Refunding RB, St. Francis, Series E		
(AGM), 5.25%, 5/15/41	9,850	10,488,182
Kentucky 0.1%		
Kentucky State Property & Building Commission, Refunding RB, Project No. 93 (AGC), 5.25%,		
2/01/27	404	456,790
Nevada 2.6%		
County of Clark Nevada Water Reclamation District, GO:		
Limited Tax, 6.00%, 7/01/38	8,000	9,115,200

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

MAY 31, 2015

5

BlackRock MuniHoldings Investment Quality Fund (MFL)

Tender Option Bond Trusts (c)   Value   Second Control total   Country of Clash Newada (amouthouth)   Country of Clash Newada (amouthouthouthouthouthouthouthouthouthouth	Municipal Bonds Transferred to		Par			
Series B, 5.50%, 7/01/29   S 5.008   S 5.771,191			(000)		Value	
New Jersey 3.4%   14,886,391   New Jersey Housing & Mortgage Finance Agency, RB, SF Housing, Series CC, 5.25%, 10/01/29   7,402   7,814,111   New Jersey Housing & Mortgage Finance Agency, RB, SF Housing, Series CC, 5.25%, 10/01/29   7,402   7,814,111   New Jersey Housing & Mortgage Finance Agency, RB, SF Housing, Series CC, 5.25%, 10/01/29   8,000   8,674,480   8,000   8,674,480   19,321,498   19,321,49						
New Jersey   3.4%   New Jersey   10.0016/29   7,402   7,814.11   7,81	Series B, 5.50%, 7/01/29	\$	5,008	\$	5,771,191	
New Jersey Housing & Mortgage Finance Agency, RB, NF Housing, Series CC, 5.25%, 10/01/29   7,402   7,412   11					14,886,391	
New Jersey Transportation Trust Fund Authority, RB, Transportation System:   Series B, 5.25%, 6/15/36 (J. 2961 3,032,907	New Jersey 3.4%					
Series B, 5.25%, 6/15/36 (d)   2.961   3.032,907			7,402		7,814,111	
Series B, 5.25%, 6/15/36 (d)   2.961   3.032,907						
New York   11.0%   1						
New York   11.0%   City of New York Municipal Water Finance Authority, Refunding RB, Water & Sewer   System, 2nd General Resolution, Series FF-2, 5.5%, 615400   4,994   5,747,462   City of New York New York Transitional Finance Authority, BARB, Fiscal 2009, Series S-3, 5.25%, 171579   5,619   6,258,248   Hudson Yards Infrastructure Corp., RB, Fiscal 2012, Series A, 5.75%, 2715447 (d)   9,249   10,558,385   New York Liberty Development Corp., RB, Fiscal 2012, Series A, 5.75%, 2715447 (d)   9,249   10,558,385   New York Liberty Development Corp., RB, Hord Trade Center Port Authority Consolidated Bonds, 5,25%, 1271543   13,950   15,917,266   New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51   (d)   Par	Series B, 5.25%, 6/15/36 (d)		2,961		3,032,907	
New York   11.0%   City of New York Municipal Water Finance Authority, Refunding RB, Water & Sewer   System, 2nd General Resolution, Series FF-2, 5.5%, 615400   4,994   5,747,462   City of New York New York Transitional Finance Authority, BARB, Fiscal 2009, Series S-3, 5.25%, 171579   5,619   6,258,248   Hudson Yards Infrastructure Corp., RB, Fiscal 2012, Series A, 5.75%, 2715407 (d)   9,249   10,558,385   New York Liberty Development Corp., RB, Fiscal 2012, Series A, 5.75%, 2715407 (d)   9,249   10,558,385   15,917,926   New York Liberty Development Corp., Refunding RB, 4 World Trade Center Porject, 5.75%, 11/15/51   (d)   8,200   9,458,208   Municipal Bonds Transferred to   Par					19 521 498	
City of New York New York Municipal Water Finance Authority, Refunding RB, Water & Sewer System, 2nd General Resolution, Series FF-2, 5.05% (of 15/40)	New York 11.0%				17,521,470	
System 2   Add General Resolution, Series FF-2, 5.50%, 615/40   4,994   5,747,462						
City of New York New York Transitional Finance Authority, BARB, Fiscal 2009, Series S-3, 5.25%, 1915/39   5,519   6,258,248   1915/39   10,558,385   New York Liberty Development Corp., RB, Fiscal 2012, Series A, 5.75%, 21/51474 (d)   9,249   10,558,385   New York Liberty Development Corp., RB, I World Trade Center Port Authority Consolidated Bonds, 5,25%, 121/543   13,950   15,917,926   New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d)   8,200   9,458,208   New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d)   8,200   9,458,208   New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d)   8,200   9,458,208   New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d)   8,200   9,458,208   New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d)   8,200   9,458,208   New York Concluded   New York State Dormitory Authority, ERB, Personal Income Tax, Series B, 5.25%, 3/15/38   \$13,500   \$15,193,035   \$15,193,035   New York State Dormitory Authority, ERB, Personal Income Tax, Series B, 5.25%, 201/31 (d)   12,027   13,524,278   13,3264   11,280,652   11,280,65			4,994		5,747,462	
11539   5.619   6.258.248   Hudson Yards Infrastructure Corp., RB, Fiscal 2012, Series A, 5.75%, 2/15/47 (d)   9,249   10.558,385   New York Liberty Development Corp., RB, I World Trade Center Port Authority Consolidated Bonds, 5.25%, 12/15/43   13,950   15,917,926   New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d)   8,200   9,458,208   Municipal Bonds Transferred to   Par   P					, , , ,	
Hudson Yards Infrastructure Corp., RB, Fiscal 2012, Series A, 5.75%, 211547 (d)   9,249   10,558,385     New York Liberty Development Corp., RB, I World Trade Center Port Authority Consolidated Bonds, 5,25%, 12/15/43   13,950   15,917,926     New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d)   8,200   9,458,208     Windicipal Bonds Transferred to   Par			5,619		6,258,248	
5.25%, 12/15/43 New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d)	Hudson Yards Infrastructure Corp., RB, Fiscal 2012, Series A, 5.75%, 2/15/47 (d)					
5.25%, 12/15/43 New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51 (d)						
Same	5.25%, 12/15/43		13,950		15,917,926	
Municipal Bonds Transferred to         Par           Tender Option Bond Trusts (c)         (000)         Value           New York (concluded)         8         13,500         \$ 15,193,035           New York State Dormitory Authority, ERB, Personal Income Tax, Series B, 5.25%, 3/15/38         \$ 13,500         \$ 15,193,035           Texas 4.3%         63,133,264         63,133,246           City of San Antonio Texas Public Service Board, Refunding RB, Series A, 5.25%, 2/01/31 (d)         12,027         13,524,278           North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 9/01/41         9,640         11,280,632           City of Riverton Utah, RB, IHC Health Services, Inc., 5.00%, 8/15/41         6,371         6,955,820           Total Municipal Bonds Transferred to         168,292,677         170tal Long-Term Investments           Cost \$834,973,086 159.6%         917,620,003         917,620,003           Short-Term Securities           Short-Term Securities           Cost \$13,809,281         13,809,281         13,809,281           Cost \$13,809,281         2.4%         13,809,281           Cost \$13,809,281         2.4%         13,809,281           Cost \$13,809,281         2.4%         13,809,281           Cost \$13,809,281 <td>New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51</td> <td></td> <td></td> <td></td> <td></td> <td></td>	New York Liberty Development Corp., Refunding RB, 4 World Trade Center Project, 5.75%, 11/15/51					
Tender Option Bond Trusts (c)					9,458,208	
New York (concluded)   New York State Dormitory Authority, ERB, Personal Income Tax, Series B, 5.25%, 3/15/38 \$ 13,500 \$ 15,193,035 \$ 13,292,478 \$ 13,292,478 \$ 13,292,478 \$ 12,293,035 \$	Municipal Bonds Transferred to		Par			
New York (concluded)   New York State Dormitory Authority, ERB, Personal Income Tax, Series B, 5.25%, 3/15/38 \$ 13,500 \$ 15,193,035 \$ 13,292,478 \$ 13,292,478 \$ 13,292,478 \$ 12,293,035 \$						
New York State Dormitory Authority, ERB, Personal Income Tax, Series B, 5.25%, 3/15/38 \$ 13,500 \$ 15,193,035 \$ 11,280,632			(000)		Value	
City of San Antonio Texas Public Service Board, Refunding RB, Series A, 5.25%, 2/01/31 (d)   12,027   13,524,278     North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 9/01/41   9,640   11,280,632	· · · · · ·	ф	12.500	ф.	15 102 025	
Texas 4.3%         City of San Antonio Texas Public Service Board, Refunding RB, Series A, 5.25%, 2/01/31 (d)       12,027       13,524,278         North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 9/01/41       9,640       11,280,632         24,804,910         Utah 1.2%         City of Riverton Utah, RB, IHC Health Services, Inc., 5.00%, 8/15/41       6,371       6,955,820         Total Municipal Bonds Transferred to         Tender Option Bond Trusts 29.3%       168,292,677         Total Long-Term Investments         (Cost \$834,973,086) 159,6%       917,620,003         Short-Term Securities         Shares         FFI Institutional Tax-Exempt Fund, 0.02% (e)(f)       13,809,281       13,809,281         Total Short-Term Securities         (Cost \$13,809,281) 2.4%       13,809,281         Total Investments (Cost \$848,782,367*) 162.0%       931,429,284         Other Assets Less Liabilities 0.7%       3,802,140         Liability for TOB Trust Certificates, Including Interest         Expense and Fees Payable (14.9%)       (85,655,253)	New York State Dormitory Authority, ERB, Personal Income Tax, Series B, 5.25%, 3/15/38	\$	13,500	\$	15,193,035	
Texas 4.3%         City of San Antonio Texas Public Service Board, Refunding RB, Series A, 5.25%, 2/01/31 (d)       12,027       13,524,278         North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 9/01/41       9,640       11,280,632         24,804,910         Utah 1.2%         City of Riverton Utah, RB, IHC Health Services, Inc., 5.00%, 8/15/41       6,371       6,955,820         Total Municipal Bonds Transferred to         Tender Option Bond Trusts 29.3%       168,292,677         Total Long-Term Investments         (Cost \$834,973,086) 159,6%       917,620,003         Short-Term Securities         Shares         FFI Institutional Tax-Exempt Fund, 0.02% (e)(f)       13,809,281       13,809,281         Total Short-Term Securities         (Cost \$13,809,281) 2.4%       13,809,281         Total Investments (Cost \$848,782,367*) 162.0%       931,429,284         Other Assets Less Liabilities 0.7%       3,802,140         Liability for TOB Trust Certificates, Including Interest         Expense and Fees Payable (14.9%)       (85,655,253)					63,133,264	
North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 9/01/41  9,640  11,280,632  24,804,910  Utah 1,2% City of Riverton Utah, RB, IHC Health Services, Inc., 5.00%, 8/15/41  Total Municipal Bonds Transferred to  Tender Option Bond Trusts 29,3% Total Long-Term Investments  (Cost \$834,973,086) 159.6%  917,620,003  Short-Term Securities Shares FFI Institutional Tax-Exempt Fund, 0.02% (e)(f) 13,809,281 13,809,281 Total Short-Term Securities  (Cost \$13,809,281) 2.4% 13,809,281  Total Investments (Cost \$848,782,367*) 162.0% 931,429,284 Other Assets Less Liabilities 0.7% 3,802,140 Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (14,9%) (85,655,253)	Texas 4.3%				,,	
Litab   1.2%   City of Riverton Utah, RB, IHC Health Services, Inc., 5.00%, 8/15/41   6,371   6,955,820	City of San Antonio Texas Public Service Board, Refunding RB, Series A, 5.25%, 2/01/31 (d)		12,027		13,524,278	
Utah 1.2%       6,371       6,955,820         Total Municipal Bonds Transferred to       6,371       6,955,820         Tender Option Bond Trusts 29.3%       168,292,677         Total Long-Term Investments         (Cost \$834,973,086) 159.6%       917,620,003         Short-Term Securities         Short-Term Securities         FFI Institutional Tax-Exempt Fund, 0.02% (e)(f)       13,809,281       13,809,281         Total Short-Term Securities         (Cost \$13,809,281) 2.4%       13,809,281       13,809,281         Total Investments (Cost \$484,782,367*) 162.0%       931,429,284         Other Assets Less Liabilities 0.7%       3,802,140         Liability for TOB Trust Certificates, Including Interest         Expense and Fees Payable (14.9%)       (85,655,253)	North Texas Tollway Authority, RB, Special Projects System, Series A, 5.50%, 9/01/41		9,640		11,280,632	
Utah 1.2%       6,371       6,955,820         Total Municipal Bonds Transferred to       6,371       6,955,820         Tender Option Bond Trusts 29.3%       168,292,677         Total Long-Term Investments         (Cost \$834,973,086) 159.6%       917,620,003         Short-Term Securities         Short-Term Securities         FFI Institutional Tax-Exempt Fund, 0.02% (e)(f)       13,809,281       13,809,281         Total Short-Term Securities         (Cost \$13,809,281) 2.4%       13,809,281       13,809,281         Total Investments (Cost \$484,782,367*) 162.0%       931,429,284         Other Assets Less Liabilities 0.7%       3,802,140         Liability for TOB Trust Certificates, Including Interest         Expense and Fees Payable (14.9%)       (85,655,253)						
Utah 1.2%       6,371       6,955,820         Total Municipal Bonds Transferred to       6,371       6,955,820         Tender Option Bond Trusts 29.3%       168,292,677         Total Long-Term Investments         (Cost \$834,973,086) 159.6%       917,620,003         Short-Term Securities         Short-Term Securities         FFI Institutional Tax-Exempt Fund, 0.02% (e)(f)       13,809,281       13,809,281         Total Short-Term Securities         (Cost \$13,809,281) 2.4%       13,809,281       13,809,281         Total Investments (Cost \$484,782,367*) 162.0%       931,429,284         Other Assets Less Liabilities 0.7%       3,802,140         Liability for TOB Trust Certificates, Including Interest         Expense and Fees Payable (14.9%)       (85,655,253)					24.804.910	
Tender Option Bond Trusts 29.3% 168,292,677  Total Long-Term Investments  (Cost \$834,973,086) 159.6% 917,620,003  Short-Term Securities Shares FFI Institutional Tax-Exempt Fund, 0.02% (e)(f) 13,809,281 13,809,281  Total Short-Term Securities  (Cost \$13,809,281) 2.4% 13,809,281 23,809,281 24,809,2	Utah 1.2%				, , , , ,	
Tender Option Bond Trusts 29.3% 168,292,677  Total Long-Term Investments  (Cost \$834,973,086) 159.6% 917,620,003  Short-Term Securities Shares FFI Institutional Tax-Exempt Fund, 0.02% (e)(f) 13,809,281 13,809,281  Total Short-Term Securities  (Cost \$13,809,281) 2.4% 13,809,281 2.4% 13,809,281  Total Investments (Cost \$848,782,367*) 162.0% 931,429,284 Other Assets Less Liabilities 0.7% 3,802,140 Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (14.9%) (85,655,253)	City of Riverton Utah, RB, IHC Health Services, Inc., 5.00%, 8/15/41		6,371		6,955,820	
Total Long-Term Investments  (Cost \$834,973,086) 159.6%  Shares  FI Institutional Tax-Exempt Fund, 0.02% (e)(f) 13,809,281 13,809,281  Total Short-Term Securities  (Cost \$13,809,281) 2.4% 13,809,281 2.4%  Total Investments (Cost \$848,782,367*) 162.0% 931,429,284  Other Assets Less Liabilities 0.7% 3,802,140  Liability for TOB Trust Certificates, Including Interest  Expense and Fees Payable (14.9%) (85,655,253)	Total Municipal Bonds Transferred to					
Total Long-Term Investments  (Cost \$834,973,086) 159.6%  Shares  FI Institutional Tax-Exempt Fund, 0.02% (e)(f) 13,809,281 13,809,281  Total Short-Term Securities  (Cost \$13,809,281) 2.4% 13,809,281 2.4%  Total Investments (Cost \$848,782,367*) 162.0% 931,429,284  Other Assets Less Liabilities 0.7% 3,802,140  Liability for TOB Trust Certificates, Including Interest  Expense and Fees Payable (14.9%) (85,655,253)						
Total Long-Term Investments  (Cost \$834,973,086) 159.6%  Shares  FI Institutional Tax-Exempt Fund, 0.02% (e)(f) 13,809,281 13,809,281  Total Short-Term Securities  (Cost \$13,809,281) 2.4% 13,809,281 2.4%  Total Investments (Cost \$848,782,367*) 162.0% 931,429,284  Other Assets Less Liabilities 0.7% 3,802,140  Liability for TOB Trust Certificates, Including Interest  Expense and Fees Payable (14.9%) (85,655,253)	Tender Option Bond Trusts 29.3%				168,292.677	
Cost \$834,973,086   159.6%   917,620,003					.,,	
Short-Term Securities  FFI Institutional Tax-Exempt Fund, 0.02% (e)(f)  13,809,281  13,809,281  13,809,281  13,809,281  (Cost \$13,809,281) 2.4%  13,809,281  Total Investments (Cost \$848,782,367*) 162.0%  Other Assets Less Liabilities 0.7%  Liability for TOB Trust Certificates, Including Interest  Expense and Fees Payable (14.9%)  Shares  13,809,281						
Short-Term Securities  FFI Institutional Tax-Exempt Fund, 0.02% (e)(f)  13,809,281  13,809,281  13,809,281  13,809,281  (Cost \$13,809,281) 2.4%  13,809,281  Total Investments (Cost \$848,782,367*) 162.0%  Other Assets Less Liabilities 0.7%  Liability for TOB Trust Certificates, Including Interest  Expense and Fees Payable (14.9%)  Shares  13,809,281	(Cost \$834 973 086) 159 6%				917 620 003	
FFI Institutional Tax-Exempt Fund, 0.02% (e)(f) 13,809,281 13,809,281  Total Short-Term Securities  (Cost \$13,809,281) 2.4% 13,809,281  Total Investments (Cost \$848,782,367*) 162.0% 931,429,284  Other Assets Less Liabilities 0.7% 3,802,140  Liability for TOB Trust Certificates, Including Interest  Expense and Fees Payable (14.9%) (85,655,253)	(0000 400 1)770,000) 1071070				717,020,003	
FFI Institutional Tax-Exempt Fund, 0.02% (e)(f) 13,809,281 13,809,281  Total Short-Term Securities  (Cost \$13,809,281) 2.4% 13,809,281  Total Investments (Cost \$848,782,367*) 162.0% 931,429,284  Other Assets Less Liabilities 0.7% 3,802,140  Liability for TOB Trust Certificates, Including Interest  Expense and Fees Payable (14.9%) (85,655,253)						
FFI Institutional Tax-Exempt Fund, 0.02% (e)(f) 13,809,281 13,809,281  Total Short-Term Securities  (Cost \$13,809,281) 2.4% 13,809,281  Total Investments (Cost \$848,782,367*) 162.0% 931,429,284  Other Assets Less Liabilities 0.7% 3,802,140  Liability for TOB Trust Certificates, Including Interest  Expense and Fees Payable (14.9%) (85,655,253)						
Total Short-Term Securities         (Cost \$13,809,281) 2.4%       13,809,281         Total Investments (Cost \$848,782,367*) 162.0%       931,429,284         Other Assets Less Liabilities 0.7%       3,802,140         Liability for TOB Trust Certificates, Including Interest         Expense and Fees Payable (14.9%)       (85,655,253)	Short-Term Securities		Shares			
(Cost \$13,809,281)       2.4%       13,809,281         Total Investments (Cost \$848,782,367*)       162.0%       931,429,284         Other Assets Less Liabilities 0.7%       3,802,140         Liability for TOB Trust Certificates, Including Interest       (85,655,253)         Expense and Fees Payable (14.9%)       (85,655,253)	FFI Institutional Tax-Exempt Fund, 0.02% (e)(f)	13,8	809,281		13,809,281	
Total Investments (Cost \$848,782,367*) 162.0% 931,429,284 Other Assets Less Liabilities 0.7% 3,802,140 Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (14.9%) (85,655,253)	Total Short-Term Securities					
Total Investments (Cost \$848,782,367*) 162.0% 931,429,284 Other Assets Less Liabilities 0.7% 3,802,140 Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (14.9%) (85,655,253)						
Total Investments (Cost \$848,782,367*) 162.0% 931,429,284 Other Assets Less Liabilities 0.7% 3,802,140 Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable (14.9%) (85,655,253)	(Cost \$13,809,281) 2.4%				13,809,281	
Other Assets Less Liabilities 0.7% 3,802,140 Liability for TOB Trust Certificates, Including Interest  Expense and Fees Payable (14.9%) (85,655,253)						
Expense and Fees Payable (14.9%) (85,655,253)						
• • • • • • • • • • • • • • • • • • • •	Liability for TOB Trust Certificates, Including Interest					
VRDP Shares, at Liquidation Value (47.8%) (274,600,000)	• • • • • • • • • • • • • • • • • • • •					
	VRDP Shares, at Liquidation Value (47.8%)			(	274,600,000)	

Net	Accets	Annlica	hle to	Common	Shares	100 0%
MEL	Assets	ADDIICA	ուշ ա	Common	Shares	100.070

\$ 574,976,171

\* As of May 31, 2015, gross unrealized appreciation and depreciation based on cost for federal income tax purposes were as follows:

Tax cost	\$ 764,420,892
Gross unrealized appreciation	\$ 83,470,808
Gross unrealized depreciation	(2,088,663)
Net unrealized appreciation	\$ 81,382,145

#### Notes to Schedule of Investments

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(a) U.S. Government securities, held in escrow, are used to pay interest on this security, as well as to retire the bond in full at the date indicated, typically at a premium to par.

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

### Schedule of Investments (continued)

BlackRock MuniHoldings Investment Quality Fund (MFL)

(b) When-issued security. Unsettled when-issued transactions were as follows:

		Un	realized
Counterparty	Value	App	reciation
JP Morgan Clearing Corp.	\$ 3,320,190	\$	54,780

- (c) Represent bonds transferred to a TOB Trust in exchange of cash and residual interest certificates received by the Trust. These bonds serve as collateral in a secured borrowing.
- (d) All or a portion of security is subject to a recourse agreement, which may require the Trust to pay the liquidity provider in the event there is a shortfall between the TOB Trust Certificates and proceeds received from the sale of the security contributed to the TOB Trust or in the event of a default on the security. In the case of a shortfall or default, the aggregate maximum potential amount the Trust could ultimately be required to pay under the agreements, which expire from October 1, 2016 to November 15, 2019 is \$22,519,117.
- (e) During the period ended May 31, 2015, investments in issuers considered to be an affiliate of the Trust for purposes of Section 2(a)(3) of the Investment Company Act 1940, as amended, were as follows:

			Shares Held		
	Shares Held at August 31,	Net	at May 31,		
Affiliate	2014	Activity	2015	Income	
FFI Institutional Tax-Exempt Fund	6,198,367	7,610,914	13,809,281	\$ 2,244	

(f) Represents the current yield as of report date.

#### Portfolio Abbreviations

AGC Assured Guarantee Corp.
AGM Assured Guaranty Municip

AGM Assured Guaranty Municipal Corp.

AMBAC American Municipal Bond Assurance Corp.

AMT Alternative Minimum Tay (subject to)

AMT Alternative Minimum Tax (subject to)
ARB Airport Revenue Bonds
BARB Building Aid Revenue Bonds

COP Certificates of Participation **EDA** Economic Development Authority **ERB** Education Revenue Bonds **GARB** General Airport Revenue Bonds GO General Obligation Bonds IDA Industrial Development Authority IDB Industrial Development Board LRB Lease Revenue Bonds

NPFGC National Public Finance Guarantee Corp.
Q-SBLF Qualified School Bond Loan Fund

RB Revenue Bonds S/F Single-Family

As of May 31, 2015, financial futures contracts outstanding were as follows:

Contracts				Notional	Unrealized	
Short	Issue	Exchange	Expiration	Value	Depreciation	
(429)	10-Year U.S. Treasury Note	Chicago Board of Trade	September 2015	\$ 54,777,938	\$ (174,903)	

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

MAY 31, 2015

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BlackRock MuniHoldings Investment Quality Fund (MFL)

Fair Value Measurements Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs to valuation techniques are categorized into a disclosure hierarchy consisting of three broad levels for financial reporting purposes. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the fair value hierarchy classification is determined based on the lowest level input that is significant to the fair value measurement in its entirety. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instrument and is not necessarily an indication of the risks associated with investing in those securities. The three levels of the fair value hierarchy are as follows:

Level 1 unadjusted quoted prices in active markets/exchanges for identical assets or liabilities that the Trust has the ability to access

Level 2 other observable inputs (including, but not limited to, quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust s own assumptions used in determining the fair value of investments and derivative financial instruments)

Changes in valuation techniques may result in transfers into or out of an assigned level within the disclosure hierarchy. In accordance with the Trust spolicy, transfers between different levels of the fair value disclosure hierarchy are deemed to have occurred as of the beginning of the reporting period. For information about the Trust spolicy regarding valuation of investments and derivative financial instruments, refer to the Trust s most recent financial statements as contained in its semi-annual report.

As of May 31, 2015, the following tables summarize the Trust s investments and derivative financial instruments categorized in the disclosure hierarchy:

	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments <sup>1</sup>		\$ 917,620,003		\$ 917,620,003
Short-Term Securities	\$ 13,809,281			13,809,281
Total	\$ 13,809,281	\$ 917,620,003		\$ 931,429,284

<sup>&</sup>lt;sup>1</sup> See above Schedule of Investments for values in each state or political subdivision.

	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments <sup>2</sup>				
Liabilities:				
Interest rate contracts	\$ (174,903)			\$ (174,903)

<sup>&</sup>lt;sup>2</sup> Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation (depreciation) on the instrument.

The Trust may hold assets and/or liabilities in which the fair value approximates the carrying amount for financial reporting purposes. As of May 31, 2015, such assets and/or liabilities are categorized within the disclosure hierarchy as follows:

	Level 1	Level 2	Level 3	Total	
Assets:					
Cash pledged for financial futures contracts	\$ 579,150			\$ 579,150	
Liabilities:					
TOB Trust Certificates		\$ (85,626,247)		(85,626,247)	
VRDP Shares		(274,600,000)		(274,600,000)	
Total	\$ 579,150	\$ (360,226,247)		\$ (359,647,097)	

During the period ended May 31, 2015, there were no transfers between levels.

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BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

#### Item 2 Controls and Procedures

- 2(a) The registrant s principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant s disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act )) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.
- 2(b) There were no changes in the registrant s internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant s last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant s internal control over financial reporting.

Item 3 Exhibits

Certifications Attached hereto

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BlackRock MuniHoldings Investment Quality Fund

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock MuniHoldings Investment Quality Fund

Date: July 23, 2015

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock MuniHoldings Investment Quality Fund

Date: July 23, 2015

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock MuniHoldings Investment Quality Fund

Date: July 23, 2015