BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND Form N-Q July 26, 2012 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 52nd Street, New York, NY 10055

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

Date of fiscal year end: 08/31/2012

Date of reporting period: 05/31/2012

Item 1 - Schedule of Investments

Schedule of Investments May 31, 2012 (Unaudited)

	Pa	r	
Municipal Bonds	(00))	Value
Alabama 5.2%			
Auburn University, Refunding RB,			
Series A:			
5.00%, 6/01/29	\$	5,665 \$	
5.00%, 6/01/31		3,250	3,795,740
Birmingham Special Care Facilities			
Financing Authority, RB, Children s			
Hospital (AGC):			
6.13%, 6/01/34		4,980	5,765,296
6.00%, 6/01/39		10,995	12,692,958
Selma IDB, RB, International Paper Co.,			
Project, Series A, 5.38%, 12/01/35		1,745	1,871,041
			30,816,307
Arizona 5.9%			
Arizona Board of Regents, Refunding			
COP, University of Arizona, Series C,			
5.00%, 6/01/25 (a)		7,755	8,940,817
Arizona Board of Regents,			
Refunding RB:			
Arizona State University,			
System, Series A, 5.00%,			
7/01/42		5,000	5,600,850
Series A, 5.00%, 6/01/42		3,000	3,376,950
Arizona Board of Regents, Tax Exempt			
Refunding RB, Series A, 5.00%,			
7/01/30		3,140	3,659,074
Arizona State Board of Regents,			
Refunding RB, Series A:		(
5.00%, 7/01/28		620	727,781
5.00%, 7/01/29		580	678,072
State of Arizona, COP, Department of			
Administration, Series A (AGM),		10.000	11.000 504
5.25%, 10/01/24		10,260	11,920,786
			34,904,330
California 22.7%			
California Educational Facilities			
Authority, RB, University of Southern		8.020	10.256.021
California, Series A, 5.25%, 10/01/38		8,920	10,356,031
California Health Facilities Financing			
Authority, RB: Stanford Hagnital and Clinica			
Stanford Hospital and Clinics,		450	406 107
Series A, 5.00%, 8/15/42 Stanford Hospital and Clinics,		450	496,107
		4 600	5 0.02 622
Series A, 5.00%, 8/15/51		4,690	5,083,632
Sutter Health, Series B,		5,370	6,349,434
6.00%, 8/15/42 California State Public Works Board, PB		5,570	0,349,434
California State Public Works Board, RB, Various Capital Projects, Series G-1			
		5,000	5,745,000
(AGC), 5.25%, 10/01/24 California State University, RB,		5,000	5,745,000
Systemwide, Series A (AGM), 5.00%,			
11/01/39		2,975	3,195,091
11/01/37		2,913	5,175,071

Municipal Bonds		ar 00)	Value
California (concluded)			
California Statewide Communities			
Development Authority, RB, Kaiser			
Permanente, Series A, 5.00%,	¢		
	\$	4,345	\$ 4,695,164
City of San Jose California, RB, Series A-		4,450	5 040 060
1, AMT, 5.75%, 3/01/34 County of Sacramento California, RB,		4,430	5,040,960
Senior Series A (AGC), 5.50%,			
7/01/41		6.600	7,344,216
Los Angeles Community College District		0,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
California, GO:			
Election of 2001, Series A (NPFGC),			
5.00%, 8/01/32		10,000	11,094,900
Election of 2008, Series C,			
5.25%, 8/01/39		3,675	4,246,793
Los Angeles Department of Water &			
Power, RB, Power System, Sub-Series		- 000	5 000 050
A-1, 5.25%, 7/01/38		5,000	5,800,850
Los Angeles Municipal Improvement			
Corp., Refunding RB, Real Property,		2,980	3,304,909
Series B (AGC), 5.50%, 4/01/39 Los Angeles Unified School District		2,980	5,504,909
California, GO, Series D, 5.25%,			
7/01/25		3,485	4,085,012
Manteca Financing Authority California,		0,100	1,000,012
RB, Manteca Sewer (AGC):			
5.63%, 12/01/33		2,450	2,782,171
5.75%, 12/01/36		3,285	3,738,691
Redondo Beach Unified School District,			
GO, Election of 2008, Series E,			
5.50%, 8/01/34		4,110	4,805,823
San Bernardino Community College			
District, GO, Election of 2002, Series		2 820	4 5 4 4 907
A, 6.25%, 8/01/33 San Diego Public Facilities Financing		3,820	4,544,807
Authority, Refunding RB, Series B			
(AGC), 5.38%, 8/01/34		4,690	5,436,085
San Jacinto Unified School District, GO,		1,090	5,150,005
Election of 2006 (AGM), 5.25%,			
8/01/32		3,000	3,263,760
State of California, GO, Various Purpose:			
5.00%, 9/01/41		10,345	11,096,254
(AGC), 5.50%, 11/01/39		15,000	16,871,400
State of California, Refunding RB,			
5.25%, 2/01/30		3,275	3,761,731
Colorado 1.2%			133,138,821
Colorado 1.2% Colorado Health Facilities Authority, RB,			
Hospital, NCMC Inc. Project, Series B			
(AGM), 6.00%, 5/15/26		5,925	6,954,528
District of Columbia 1.7%		5,725	3,20 1,320
District of Columbia Water & Sewer			
Authority, RB:			
Series A (NPFGC), 5.00%,			
10/01/38		1,000	1,107,950

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND MAY 31, 2012

	Par	
Municipal Bonds	(000)	Value
District of Columbia (concluded)	(000)	value
District of Columbia (concluded) District of Columbia Water & Sewer Authority, RB (concluded):		
Sub Lien, Series A, Public		
Utility Revenue, 5.00%,		
10/01/30	\$ 7,515	\$ 8,848,988 9,956,938
Florida 9.0%		
City of Jacksonville Florida, RB, Sales		
Tax Revenue, Better Jacksonville (NPFGC), 5.00%, 10/01/27	10,000	10,460,100
City of Jacksonville Florida, Refunding		
RB, Sales Tax Revenue, Better		
Jacksonville (AGM), 5.00%, 10/01/29	3,500	3,955,035
County of Lee Florida, Refunding ARB,		
Series A, AMT, 5.38%, 10/01/32	4,600	4,979,638
County of Miami-Dade Florida, RB,		
Miami International Airport,		
Series A, AMT:		
(AGM), 5.50%, 10/01/41	3,500	3,738,490
(NPFGC), 6.00%, 10/01/29	8,000	8,055,760
Florida Housing Finance Corp., RB,		
Waverly Apartments, Series C-1 AMT		
(AGM), 6.30%, 7/01/30	2,055	2,058,411
Florida Housing Finance Corp.,		
Refunding RB, AMT (NPFGC)		
Homeowner Mortgage, Series 2:	350	350,931
5.75%, 7/01/14 5.90%, 7/01/29	5,670	5,735,092
Manatee County Housing Finance	5,070	5,755,092
Authority, RB, Series A, AMT (Ginnie		
Mae), 5.90%, 9/01/40	2,700	3,009,069
Miami-Dade County Housing Finance	2,700	5,007,007
Authority Florida, RB, Marbrisa		
Apartments Project, Series 2A, AMT		
(AGM), 6.00%, 8/01/26	2,185	2,192,364
Orange County Health Facilities		
Authority, RB, The Nemours		
Foundation Project, Series A, 5.00%,		
1/01/29	3,555	3,949,889
Palm Beach County Florida School		
Board, Refunding COP, Series A,		
5.00%, 8/01/28	4,000	4,524,000
		53,008,779
Illinois 16.3% Chiange Board of Education Illinois CO		
Chicago Board of Education Illinois, GO, Series A, 5.50%, 12/01/39	6,370	7,281,419
Chicago Board of Education Illinois, GO,	0,370	7,201,419
Refunding, Chicago School Reform		
Board (NPFGC), 5.50%, 12/01/26	1,620	1,974,181
Chicago Transit Authority, RB:	1,020	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Federal Transit Administration Section 5309, Series A (AGC),		
6.00%, 6/01/26	6,315	7,411,221
Sales Tax Receipts Revenue, 5.25%, 12/01/36	1,960	2,206,509
	Par	
Municipal Bonds Illinois (concluded)	(000)	Value
Chicago Transit Authority, RB		
(concluded):		
Sales Tax Receipts Revenue, 5.25%, 12/01/40	\$ 5,515	\$ 6,180,385
City of Chicago Illinois, RB:		
General, Third Lien, Series A, 5.75%, 1/01/39	7,395	8,577,534
General, Third Lien, Series C,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,077,0001
6.50%, 1/01/41	16,800	20,328,000
City of Chicago Illinois, Refunding RB:		
Sales Tax Revenue, Series A, 5.25%, 1/01/38	2,445	2,758,889
Waterworks Revenue Project, 5.00%, 11/01/42	4,360	4,870,120
City of Chicago Illinois, Refunding RB, O Hare International Airport, General,		, ,
Third Lien, Series C, 5.25%, 1/01/35	4,520	4,995,188
Illinois Finance Authority, RB:		
Carle Foundation, Series A, 6.00%, 8/15/41	4,000	4,444,640
University of Chicago, Series B, 5.50%, 7/01/37	10,000	11,694,200
Railsplitter Tobacco Settlement Authority, RB:		
5.50%, 6/01/23	4,365	5,028,567
6.00%, 6/01/28	1,245	1,428,613
State of Illinois, RB, Build Illinois, Series B, 5.25%, 6/15/26	5,625	6,478,875
	-)	95,658,341
Indiana 3.5%		
Indiana Finance Authority Waste Water Utility, RB, First Lien, CWA Authority,		
Series A, 5.00%, 10/01/41 Indianapolis Local Public Improvement	4,080	4,471,558
Bond Bank, Refunding RB,		
Waterworks Project, Series A (AGC),		
5.50%, 1/01/38	14,105	15,829,759
Kentucky 0.4%		20,301,317
The Turnpike Authority of Kentucky, RB,		
Revitalization Projects, Series A,		
5.00%, 7/01/29	2,235	2,655,649
Louisiana 0.2% New Orleans Aviation Board Louisiana,		
Refunding RB, GARB,		
Restructuring (AGC):		
Series A-1, 6.00%, 1/01/23	500	597,230
Series A-2, (AGC), 6.00%, 1/01/23	720	860,011
101125	720	1,457,241
Massachusetts 0.4%		
	2,090	2,398,400

Massachusetts Development Finance Agency, RB, Wellesley College, Series J, 5.00%, 7/01/42

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND MAY 31, 2012

Municipal Danda	Par (000		Value
Municipal Bonds Michigan 7.8%	(000)	value
City of Detroit Michigan, RB:			
Second Lien, Series B (AGM),			
6.25%, 7/01/36	\$	6,320	\$ 7,303,139
Second Lien, Series B (NPFGC), 5.50%, 7/01/29		7,490	8,406,027
Senior Lien, Series B (AGM), 7.50%, 7/01/33		2,780	3,506,025
City of Detroit Michigan, Refunding RB, Senior Lien, Series C-1 (AGM), 7.00%,		0.055	
7/01/27 Hudsonville Public Schools, GO, School		9,055	11,040,399
Building & Site (Q-SBLF), 5.25%, 5/01/41		6,015	6,698,123
Michigan State Building Authority, Refunding RB, Facilities Program,			
Series I (AGC), 5.25%, 10/15/25 Royal Oak Hospital Finance Authority		1,435	1,682,911
Michigan, Refunding RB, William Beaumont Hospital, 8.25%, 9/01/39		5,780	7,387,245
			46,023,869
Minnesota 2.0% City of Minneapolis Minnesota, Refunding RB, Fairview Health			
Services, Series B (AGC), 6.50%, 11/15/38 Mississippi 1.0%		9,900	11,753,577
Medical Center Educational Building			
Corporation, RB, University of Mississippi Medical Center Facilities			
Expansion & Renovation Project,			
Series A, 5.00%, 6/01/41 Nebraska 0.9%		5,380	5,950,710
Nebraska Investment Finance Authority, Refunding RB, Series A:			
5.90%, 9/01/36		3,650	4,171,001
6.05%, 9/01/41		1,015	1,078,712
		1,015	5,249,713
Nevada 5.5%			5,217,715
Clark County Water Reclamation District, GO, Series A, 5.25%,			
7/01/34		10,850	12,685,711
County of Clark Nevada, RB: Las Vegas-McCarran International			
Airport, Series A (AGC), 5.25%, 7/01/39		12,750	14,063,760
Subordinate Lien, Series A-2 (NPFGC), 5.00%, 7/01/36		5,390	5,701,704
(111100), 5.00%, 7/01/50		5,590	32,451,175
New Jersey 3.7%			
		6,500	7,142,265

New Jersey Health Care Facilities Financing Authority, RB, Virtua Health (AGC), 5.50%, 7/01/38

Municipal Bonds	Par (000)	,	Value
New Jersey (concluded)	()		
New Jersey Higher Education Student			
Assistance Authority, Refunding RB,			
Series 1, AMT, 5.75%, 12/01/28	\$ 4,475	\$	5,039,924
New Jersey Transportation Trust Fund			
Authority, RB, Transportation System:			
Series A, 5.50%, 6/15/41	5,410		6,269,432
Series B, 5.25%, 6/15/36	2,960		3,365,757
			21,817,378
New York 9.6%			
Metropolitan Transportation Authority,			
Refunding RB, Transportation, Series			
C, 5.00%, 11/15/28	5,500		6,347,330
New York City Municipal Water Finance			
Authority, RB:			
Fiscal 2009, Series EE, 5.25%,	7.500		0 457 000
6/15/40	7,500		8,457,000
Series FF-2, 5.50%, 6/15/40	4,000		4,608,320
New York City Municipal Water Finance			
Authority, Refunding RB, Second			
General Resolution, Series EE, 5.38%,	2 475		4 007 719
6/15/43 New York City Transitional Finance	3,475		4,007,718
New York City Transitional Finance			
Authority, RB: Future Tax Secured, Subseries			
E-1, 5.00%, 2/01/42	7,210		8,127,977
Series S-3, 5.25%, 1/15/39	5,625		6,283,125
Sub-Future Tax Secured,	5,025		0,205,125
Series C, 5.00%, 11/01/39	4,865		5,438,000
Sub-Series S-2A, 5.00%,	1,005		2,120,000
7/15/30	7,110		8,182,117
New York City Transitional Finance	,,110		0,102,117
Authority, RB, Fiscal 2009, Series S-4			
(AGC), 5.50%, 1/15/29	4,000		4,680,160
	,		56,131,747
North Carolina 2.1%			, ,
City of Charlotte NC, ARB, Airport			
Revenue, Charlotte Douglas Airport,			
Series A, 5.00%, 7/01/41	7,540		8,345,272
University of North Carolina, Refunding			
RB, 5.00%, 4/01/28	3,275		3,818,519
			12,163,791
Pennsylvania 1.7%			
Pennsylvania Turnpike Commission, RB,			
Sub-Series A, 6.00%, 12/01/41	4,945		5,589,136
Philadelphia Hospitals & Higher			
Education Facilities Authority,			
Refunding RB, Children s Hospital			
Philadelphia, Series D, 5.00%,	0 705		1 202 252
7/01/32	3,785		4,302,258
			9,891,394

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND MAY 31, 2012

	Par		¥7. ¥
Municipal Bonds	(000)		Value
Puerto Rico 1.3%			
Puerto Rico Sales Tax Financing Corp.,			
RB, First Sub-Series A, 6.38%,	\$ 6,610	¢	7,731,915
8/01/39 Texas 18.1%	\$ 0,010	\$	7,751,915
City of Austin Texas, Refunding RB,			
	2 260		2 002 102
Series A (AGM), 5.00%, 11/15/28	3,360		3,902,102
City of Houston Texas, Refunding RB,			
Combined First Lien, Series A (AGC):	12 700		15 250 226
6.00%, 11/15/35	12,700		15,350,236
6.00%, 11/15/36	9,435		11,364,080
5.38%, 11/15/38 Dollas Area Banid Transit Dafunding	5,000		5,730,300
Dallas Area Rapid Transit, Refunding	10 110		11 220 176
RB, Senior Lien, 5.25%, 12/01/38	10,110		11,330,176
Harris County Cultural Education			
Facilities Finance Corp., RB, Texas			
Children s Hospital Project, 5.25%,	2 6 4 5		4 1 47 692
10/01/29 Harris County Health Facilities	3,645		4,147,682
•			
Development Corp., Refunding RB,			
Memorial Hermann Healthcare	1 500		1 901 220
System, Series B, 7.25%, 12/01/35	1,500		1,801,320
Katy Independent School District,			
Refunding RB, School Building, Series	2 505		4 002 500
A, (PSF-GTD), 5.00%, 2/15/42 (a)	3,505		4,002,500
Lamar Texas Consolidated Independent			
School District, GO, Refunding, School	4 175		1 752 605
House, Series A, 5.00%, 2/15/45 North Texas Tollway Authority, RB,	4,175		4,752,695
Special Projects System, Series A,	2 500		4 001 080
5.50%, 9/01/41 North Texas Tollway Authority,	3,500		4,091,080
Refunding RB, System, First Tier:			
(AGM), 6.00%, 1/01/43	5,555		6,563,233
Series K-1 (AGC), 5.75%, 1/01/38	12,150		13,729,379
Tarrant County Cultural Education	12,150		15,729,579
Facilities Finance Corp., Refunding			
RB, Christus Health, Series A (AGC),			
6.50%, 7/01/37	1,770		2,045,978
Texas State Turnpike Authority, RB,	1,770		2,015,970
Central Texas Turnpike System, First			
Tier, Series A (AMBAC), 5.00%,			
8/15/42	5,790		5,790,463
Texas Tech University, Refunding RB,	2,		2,
Improvement Bonds, 14th Series A,			
5.00%, 8/15/32	1,500		1,733,160
University of Texas System, Refunding	1,200		1,755,100
RB, Financing System, Series B,			
5.00%, 8/15/43	8,495		9,801,021
	0,.20		106,135,405
Virginia 0.9%			,

Virginia Public School Authority, RB, School Financing, 6.50%, 12/01/35		4,300	5,077,053
Washington 1.5% City of Seattle Washington, Refunding PB. Series A 5 25% - 201/26		4 200	1 9 1 2 5 6 6
RB, Series A, 5.25%, 2/01/36		4,200	4,843,566
Municipal Bonds	Par (000)		Value
Washington (concluded)	(000)		Value
State of Washington, GO, Various			
Purpose, Series B, 5.25%, 2/01/36	\$	3,290	\$ 3,813,011
Wisconsin 1.1%			8,656,577
Wisconsin Health & Educational			
Facilities Authority, Refunding RB,			
Ascension Health, Series D, 5.00%,			
11/15/41		5,800	6,314,750
Total Municipal Bonds 123.7%			726,599,705
Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (b)			
Alabama 1.2%			
Mobile Board of Water & Sewer			
Commissioners, RB (NPFGC), 5.00%,			
1/01/31		6,500	6,863,610
California 2.0%			
California State University, Refunding			
RB, Systemwide, Series A (AGM), 5.00%, 11/01/32		7,960	8,954,761
Los Angeles Unified School District		7,900	0,934,701
California, GO, Series I, 5.00%,			
1/01/34		2,400	2,663,760
			11,618,521
District of Columbia 0.7%			
District of Columbia Water & Sewer			
Authority, RB, Series A, 6.00%, 10/01/35		3,381	4,242,689
Florida 2.7%		5,501	1,212,009
Hillsborough County Aviation Authority,			
RB, Series A, AMT (AGC), 5.50%,			
10/01/38	1	0,657	11,401,520
Lee County Housing Finance Authority,			
RB, Multi-County Program, Series A-2, AMT (Ginnie Mae), 6.00%, 9/01/40		4,065	4,334,591
AWIT (Online Mac), 0.00%, 9/01/40		4,005	15,736,111
Illinois 1.4%			10,700,111
Chicago Transit Authority, Refunding RB,			
Federal Transit Administration Section			
5309 (AGM), 5.00%, 6/01/28		7,737	8,406,383
Indiana 1.8%			
Indiana Health & Educational Facilities Financing Authority, Refunding RB, St.			
Francis, Series E (AGM), 5.25%,			
5/15/41		9,850	10,466,019
Kentucky 0.1%			· · · ·
Kentucky State Property & Building			
Commission, Refunding RB, Project			
No. 93 (AGC), 5.25%, 2/01/27		404	464,440

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND MAY 31, 2012

	Par	
Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (b)	(000)	Value
Massachusetts 1.8%		
Massachusetts School Building		
Authority, RB, Senior-Series B, 5.00%,		
10/15/41	\$ 9,440 \$	10,716,194
Nevada 2.7%		
Clark County Water Reclamation District, GO:		
Limited Tax, 6.00%, 7/01/38	8,000	9,896,560
Series B, 5.50%, 7/01/29	5,008	5,836,972
		15,733,532
New Jersey 3.8%		
New Jersey EDA, RB, School Facilities Construction, Series Z (AGC), 6.00%,	1.050	5 001 014
12/15/34	4,350	5,021,814
New Jersey State Housing & Mortgage Finance Agency, RB, S/F Housing,	5.402	0.002.000
Series CC, 5.25%, 10/01/29	7,402	8,083,990
New Jersey Transportation Trust Fund		
Authority, RB, Transportation System, Series A (AGM), 5.00%, 12/15/32	8,000	9,002,480
Series IX (IIGNI), 5.00 %, 12(15/52	0,000	22,108,284
New York 10.7%		,100,201
Hudson New York Yards Infrastructure		
Corp., RB, Series A, 5.75%, 2/15/47	9,249	10,648,882
New York City Municipal Water Finance		
Authority, Refunding RB, Series FF-2,		
5.50%, 6/15/40	4,994	5,753,254
New York City Transitional Finance		
Authority, RB, Future Tax Secured, Sub-Series E1, 5.00%, 2/01/42	5,439	6,131,360
New York Liberty Development Corp.,	5,457	0,151,500
RB, World Trade Center Port Authority,		
Series 1, 5.25%, 12/15/43	13,950	15,866,591
New York State Dormitory Authority, RB,		
Short Term Personal Income, Tax		
Revenue Education, Series B, 5.25%,		
3/15/38	13,500	15,388,110
New York State Liberty Development		
Corp., Refunding RB, World Trade	8 200	0 421 996
Center Project, 5.75%, 11/15/51	8,200	9,431,886 63,220,083
Puerto Rico 1.0%		03,220,085
Puerto Rico Sales Tax Financing Corp.,		
Sales Tax Refunding RB, Sales Tax,		
Series C, 5.25%, 8/01/40	5,590	6,184,776
Texas 6.4%		
City of San Antonio Texas, Refunding		
RB, Series A, 5.25%, 2/01/31	12,027	13,894,922
North Texas Tollway Authority, RB,		
Special Projects System, Series A,	0.640	11 269 002
5.50%, 9/01/41	9,640	11,268,003

Municipal Bonds Transferred to Tender Option Bond (TOB) Trusts (b)	Par (000)	Value
Texas (concluded)	(000)	value
Waco Educational Finance Corporation,		
Refunding RB, Baylor University,		
5.00%, 3/01/43	\$ 11,250	\$ 12,672,900
		37,835,825
Utah 1.2%		
City of Riverton Utah Hospital, RB, IHC		
Health Services Inc., 5.00%, 8/15/41	6,373	6,880,389
Washington 1.7%		
University of Washington, Refunding RB,		
Series A, 5.00%, 7/01/41	8,698	9,949,581
Total Municipal Bonds Transferred to Tender Option		
Bond (TOB) Trusts 39.2%		230,426,437
Total Long-Term Investments		
(Cost \$874,585,048) 162.9%		957,026,142
Short-Term Securities		
Alabama 0.1%		
Eutaw Industrial Development Board,		
Refunding RB, VRDN, Alabama Power		
Company Project, 0.13%, 6/01/12 (c)	600	600,000
	Shares	
FFI Institutional Tax-Exempt Fund,	Snares	
0.04% (d)(e)	19,976,206	19,976,206
Total Short-Term Securities	17,770,200	1),)70,200
(Cost \$20,576,206) 3.5%		20,576,206
Total Investments (Cost - \$895,161,254*) 166.4%		977,602,348
Liabilities in Excess of Other Assets (0.2)%		(1,018,003)
Liability for TOB Trust Certificates, Including Interest		()
Expense and Fees Payable (19.5)%		(114,578,616)
VRDP Shares, at Liquidation Value (46.7)%		(274,600,000)
Net Assets Applicable to Common Shares 100.0%		\$ 587,405,729

* As of May 31, 2012, gross unrealized appreciation and gross unrealized depreciation based on cost for federal income tax purposes were as follows:

Tax cost	\$ 780,880,026
Gross unrealized appreciation	\$ 82,276,631
Gross unrealized depreciation	(68,998)
Net unrealized appreciation	\$ 82,207,633

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND	MAY 31, 2012
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BlackRock MuniHoldings Investment Quality Fund (MFL)

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

			Unrealized
Counterparty	Value Appreciation		ppreciation
Citigroup Global Markets	\$ 8,940,817	\$	33,269
Piper Jaffrey	\$ 4,002,500	\$	33,192

(b) Securities represent bonds transferred to a TOB in exchange for which the Fund acquired residual interest certificates. These securities serve as collateral in a financing transaction.

(c) Variable rate security. Rate shown is as of report date and maturity shown is the date the principal owed can be recovered through demand.

(d) Investments in companies considered to be an affiliate of the Fund during the period, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

Affiliate	Shares Held at August 31, 2011	Net Activity	Shares Held at May 31, 2012	Income
FFI Institutional Tax-Exempt Fund	22,122,505	(2,146,299)	19,976,206	\$ 2,701

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

Financial futures contracts sold as of May 31, 2012 were as follows:

Contracts	Issue	Exchange	Expiration	Notional Value	Unrealized epreciation
	10-Year US	Chicago			
	Treasury	Board of	September		
195	Note	Trade	2012	\$ 26,117,813	\$ (228,886)

Portfolio Abbreviations

To simplify the listings of portfolio holdings in the Schedule of Investments, the names and descriptions of many of the securities have been abbreviated according to the following list:

AGCAssured Guaranty Corp.AGMAssured Guaranty Municipal Corp.AMBACAmerican Municipal Bond Assurance Corp.AMTAlternative Minimum Tax (subject to)ARBAirport Revenue Bonds

COP	Certificates of Participation
EDA	Economic Development Authority
GARB	General Airport Revenue Bonds
GO	General Obligation Bonds
Ginnie Mae	Government National Mortgage Association
IDB	Industrial Development Board
NPFGC	National Public Finance Guarantee Corp.
PSF-GTD	Permanent School Fund Guaranteed
Q-SBLF	Qualified School Bond Loan Fund
RB	Revenue Bonds
S/F	Single-Family
VRDN	Variable Rate Demand Notes

Fair Value Measurements - Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs are categorized into a disclosure hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

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 Fund 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 Fund s policy, transfers between different levels of the fair value disclosure hierarchy are deemed to have occurred as of the beginning of the reporting period. 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. For information about the Fund s policy regarding valuation of investments and derivative financial instruments and other significant accounting policies, please refer to the Fund s most recent financial statements as contained in its semi-annual report.

The following tables summarize the inputs used as of May 31, 2012 in determining the fair valuation of the Fund s investments and derivative financial instruments: