

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

Form N-PX

August 29, 2011

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM N-PX

ANNUAL REPORT OF PROXY VOTING RECORD 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 Perlowski, Chief Executive Officer, BlackRock MuniHoldings Investment Quality Fund, 55 East 52nd Street, New York City, NY 10055.

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

Date of fiscal year end: 08/31

Date of reporting period: 07/01/2010 - 06/30/2011

Item 1 Proxy Voting Record Attached hereto.

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***** FORM N-Px REPORT *****

ICA File Number: 811-08349
Reporting Period: 07/01/2010 - 06/30/2011
BlackRock MuniHoldings Investment Quality Fund

===== BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND =====

BLACKROCK CORPORATE HIGH YIELD FUND VI, INC.

Ticker: HYT Security ID: 09255P107
Meeting Date: SEP 02, 2010 Meeting Type: Annual
Record Date: JUL 06, 2010

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|------|--------------------------------------|---------|-----------|------------|
| 1.1 | Elect Director Richard E. Cavanagh | For | For | Management |
| 1.2 | Elect Director Richard S. Davis | For | For | Management |
| 1.3 | Elect Director Frank J. Fabozzi | For | For | Management |
| 1.4 | Elect Director Kathleen F. Feldstein | For | For | Management |
| 1.5 | Elect Director James T. Flynn | For | For | Management |
| 1.6 | Elect Director Henry Gabbay | For | For | Management |
| 1.7 | Elect Director Jerrold B. Harris | For | For | Management |
| 1.8 | Elect Director R. Glenn Hubbard | For | For | Management |
| 1.9 | Elect Director W. Carl Kester | For | For | Management |
| 1.10 | Elect Director Karen P. Robards | For | For | Management |

BLACKROCK CREDIT ALLOCATION INCOME TRUST II

Ticker: PSY Security ID: 09255H105
Meeting Date: SEP 02, 2010 Meeting Type: Annual
Record Date: JUL 06, 2010

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|-----|--------------------------------------|---------|-----------|------------|
| 1.1 | Elect Director Richard E. Cavanagh | For | For | Management |
| 1.2 | Elect Director Richard S. Davis | For | For | Management |
| 1.3 | Elect Director Kathleen F. Feldstein | For | For | Management |
| 1.4 | Elect Director James T. Flynn | For | For | Management |
| 1.5 | Elect Director Henry Gabbay | For | For | Management |
| 1.6 | Elect Director Jerrold B. Harris | For | For | Management |
| 1.7 | Elect Director R. Glenn Hubbard | For | For | Management |
| 1.8 | Elect Director Karen P. Robards | For | For | Management |

BLACKROCK CREDIT ALLOCATION INCOME TRUST IV

Ticker: BTZ Security ID: 092508100
Meeting Date: SEP 02, 2010 Meeting Type: Annual
Record Date: JUL 06, 2010

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|-----|--------------------------------------|---------|-----------|------------|
| 1.1 | Elect Director Richard E. Cavanagh | For | For | Management |
| 1.2 | Elect Director Kathleen F. Feldstein | For | For | Management |
| 1.3 | Elect Director Henry Gabbay | For | For | Management |
| 1.4 | Elect Director Jerrold B. Harris | For | For | Management |

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BLACKROCK ENERGY AND RESOURCES TRUST

Ticker: BGR Security ID: 09250U101
Meeting Date: SEP 02, 2010 Meeting Type: Annual
Record Date: JUL 06, 2010

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|-----|--------------------------------------|---------|-----------|------------|
| 1.1 | Elect Director Richard E. Cavanagh | For | For | Management |
| 1.2 | Elect Director Kathleen F. Feldstein | For | For | Management |
| 1.3 | Elect Director Henry Gabbay | For | For | Management |
| 1.4 | Elect Director Jerrold B. Harris | For | For | Management |

BLACKROCK ENHANCED DIVIDEND ACHIEVERS TRUST

Ticker: BDJ Security ID: 09251A104
Meeting Date: SEP 02, 2010 Meeting Type: Annual
Record Date: JUL 06, 2010

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|-----|--------------------------------------|---------|-----------|------------|
| 1.1 | Elect Director Richard E. Cavanagh | For | For | Management |
| 1.2 | Elect Director Kathleen F. Feldstein | For | For | Management |
| 1.3 | Elect Director Henry Gabbay | For | For | Management |
| 1.4 | Elect Director Jerrold B. Harris | For | For | Management |

BLACKROCK FLOATING RATE INCOME TRUST

Ticker: BGT Security ID: 091941104
Meeting Date: SEP 02, 2010 Meeting Type: Annual
Record Date: JUL 06, 2010

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|-----|--------------------------------------|---------|-----------|------------|
| 1.1 | Elect Director Richard E. Cavanagh | For | For | Management |
| 1.2 | Elect Director Kathleen F. Feldstein | For | For | Management |
| 1.3 | Elect Director Henry Gabbay | For | For | Management |
| 1.4 | Elect Director Jerrold B. Harris | For | For | Management |

BLACKROCK INTERNATIONAL GROWTH AND INCOME TRUST

Ticker: BGY Security ID: 092524107
Meeting Date: SEP 02, 2010 Meeting Type: Annual
Record Date: JUL 06, 2010

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|-----|--------------------------------------|---------|-----------|------------|
| 1.1 | Elect Director Richard E. Cavanagh | For | For | Management |
| 1.2 | Elect Director Kathleen F. Feldstein | For | For | Management |
| 1.3 | Elect Director Henry Gabbay | For | For | Management |
| 1.4 | Elect Director Jerrold B. Harris | For | For | Management |

BLACKROCK LIMITED DURATION INCOME TRUST

Ticker: BLW Security ID: 09249W101
Meeting Date: SEP 02, 2010 Meeting Type: Annual
Record Date: JUL 06, 2010

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| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|-----|--------------------------------------|---------|-----------|------------|
| 1.1 | Elect Director Richard E. Cavanagh | For | For | Management |
| 1.2 | Elect Director Kathleen F. Feldstein | For | For | Management |
| 1.3 | Elect Director Henry Gabbay | For | For | Management |
| 1.4 | Elect Director Jerrold B. Harris | For | For | Management |

===== END NPX REPORT =====

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Pursuant to the requirements of 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 Perlowski
John Perlowski
Chief Executive Officer of

BlackRock MuniHoldings Investment Quality Fund
Date: August 29, 2011