



MuniViewSM

Interactive Data's MuniViewSM service offers comprehensive municipal reference data, maintained and updated by our staff of research specialists, on more than three million active and historical municipal bonds.

MuniView flags critical and time-sensitive events, and provides information you can use for a variety of functions including:

- Reconciling your portfolio
- Maintaining your security master file
- Updating your CUSIP[®] file
- Reviewing disclosure data
- Creating customized reports
- Obtaining fundamental data

■ Security Master Maintenance

Clients who maintain their municipal file on the Interactive Data system receive updated files reflecting changes and additions. You can choose from our standard report formats or a customized report can be designed according to your specifications.

Delivery Options

Intra-Day—MuniView can provide updates for changes and additions to the data at specified times throughout the day via intra-day delivery.

On Demand—MuniView can provide access to the data as needed via on demand delivery.

Periodic Updates

You can forward a list of securities to our Client Service department and request a full replacement file. Interactive Data will update the file and return it to you electronically.

■ Disclosure Data

MuniView can help clients to comply with SEC Rule 15c2-12. MuniView supplies not only the type and description of material events, but also flags the events as official or unofficial. At a glance, MuniView alerts you to time-sensitive and critical events.

■ MuniView API

Clients can access the MuniView API, which allows you to build customized systems for querying the database for reference data. This also allows users to design the way this information is displayed.

■ Data Items

Note: A number in parentheses indicates that multiple data items can be returned.

Fundamental Information

- Bank Qualified
- Bond Form
- Bond Insurance
- Call Date
- Capital Type
- Conversion Date
- Coupon Rate
- Coupon Type
- CUSIP
- Dated Date
- First Coupon Date
- Interest Payment Frequency
- Lead Manager
- Maturity Date
- Maturity Description
- Moody's® Long-Term Rating
- Original Issue Amount
- Original Price
- Original Principal Amount
- Original Yield
- Put Date
- S&P® Long-Term Rating
- Sale Date
- Security Type
- Settlement Date
- Settlement Type
- Sinking Fund Date
- State Code
- Tax Status
- Use of Proceeds

Maturity Information

- Bank Qualified
- Bond Form
- Capital Type
- Corporation Name
- Coupon Rate, Coupon Type
- CUSIP
- Dated Date
- Default Date, Default Event, Default Status, Default Type
- Delivery Date
- Denomination Amount
- Depository Type
- DTCC Security Eligibility Status
- First Coupon Date

Maturity Information *continued*

- First Execution Date, First Execution Time
- Formal Award Date, Formal Award Time
- Issue Description
- Maturity Amount, Maturity Date, Maturity Description Code
- Multiples of Denomination
- Next Coupon Payment Date
- Odd First Coupon Date
- Offering Document Delivery Mode
- Offering Type
- Original Average Life Date
- Original Principal Amount
- Original CUSIP, Original CUSIP Status, Original CUSIP Type
- Original Price, Original Yield, Original Issue Amount
- Outstanding Amount
- PAC Bond
- Project Name
- Sale Date
- Security Type
- Series Name
- Settlement Code, Settlement Date
- State Code, State Tax Status
- Supplemental Issue Type
- Tail Denomination
- Tax Credit or Subsidy Percent
- Tax Credit or Subsidy Recipient
- Tax Status
- Use of Proceeds

Agent Information

- Auction Agent
- Bond Counsel (2)
- Co-Manager (8)
- Escrow Agent (4)
- Financial Advisor (2)
- Lead Manager
- Paying Agent (2)
- Registrar
- Remarketing Agent
- Tender Agent
- Transfer Agent
- Trustee (2)

Call Information

- Calls CAV Flag, Calls Defeased Flag
- Call Date, Call Notice Minimum, Call Price, Call Schedule Number
- Death Put
- Extraordinary Redemption Flag
- In-Part Call Frequency Code
- In-Whole Call Frequency Code
- Make Whole Call
- Next Call Date, Next Call Price
- Next Par Call Date, Next Par Call Price
- Special Optional Redemption Flag, Special Mandatory Redemption Flag

Conversion Information

- Conversion Date
- Conversion Schedule Date, Conversion Schedule Rate, Conversion Schedule Type

Disclosure Information

- Correction Date, Correction Time
- Event Code, Event Date, Event Description, Event Status, Event Time, Event Type

Enhancement Information

- Bond Insurance
- Mortgage Insurance
- LOC Bank, LOC Expiration Date, LOC Type
- Other Enhancement Company, Other Enhancement Type

Interest Information

- Interest Accrual Date
- Interest Calculation Method
- Interest Payment Day, Interest Payment Frequency

Put Information

- Next Optional Put Date
- Optional Put Date, Optional Put Frequency Code, Optional Put Max Window, Optional Put Min Window, Optional Put Price, Optional Put Type, Put Flag

Ratings Information

- Fitch[®] Conditional Code, Fitch Endorsement Compliance, Fitch Issue Underlying Rating Date, Fitch Long-Term Issue Underlying Rating Date, Fitch Long-Term Rating, Fitch Long-Term Rating Date, Fitch Rating Suffixes, Fitch Short-Term Rating, Fitch Short-Term Rating Date, Fitch Short-

Term Unenhanced Rating, Fitch Short-Term Unenhanced Rating Date

- Moody's Conditional Code, Moody's Indicator, Moody's Issue Underlying Rating, Moody's Issue Underlying Rating Date, Moody's Long-Term Endorsement Indicator, Moody's Long-Term Rating, Moody's Long-Term Rating Date, Moody's Long-Term Enhanced Rating, Moody's Long-Term Enhanced Rating Date, Moody's Long-Term Insured Rating, Moody's Long-Term Insured Rating Date, Moody's Short-Term Endorsement Indicator, Moody's Short Term Enhanced Rating, Moody's Short-Term Enhanced Rating Date, Moody's Short-Term Rating, Moody's Short-Term Rating Date, Moody's Short-Term Underlying Rating, Moody's Short-Term Underlying Rating Date
- S&P EE Endorsement Indicator, S&P EU Endorsement Indicator, S&P Issue Underlying Rating, S&P Issue Underlying Rating Date, S&P Long-Term Preliminary Rating, S&P Long-Term Preliminary Rating Date, S&P Long-Term Rating, S&P Long-Term Rating Date, S&P Long-Term Recovery Rating, S&P Long-Term Recovery Rating Date, S&P Long-Term School ICR Rating, S&P Long-Term School ICR Rating Date, S&P Provisional Code, S&P Regulatory Qualifier, S&P Short-Term Rating, S&P Short-Term Rating Date

Redemption Information

- Escrow Percent (4), Escrow Type (4)
- Partial Redemption Amount, Partial Redemption Date, Partial Redemption Flag, Partial Redemption Price, Partial Redemption Schedule Code
- Redemption CAV Flag, Redemption Flag, Redemption Type
- Refund Date, Refund Price
- Refunding Issue Dated Date

Sinking Fund Information

- Sink Defeased Flag, Sinking Fund Amount, Sinking Fund Date, Sinking Fund Price, Sinking Fund Type

Tender Information

- Mandatory Tender Date, Mandatory Tender Frequency Code, Mandatory Tender Max Window, Mandatory Tender Min Window, Mandatory Tender Price, Mandatory Tender Type
- Next Mandatory Tender Date
- No Date Tender Type (4)

Variable Rate Information

- Benchmark
- Current Variable Rate
- Initial Variable Rate
- Next Auction Reset Date
- Next Variable Reset Date
- Reset Frequency Code
- Variable Rate Ceiling, Variable Rate Floor, Variable Reset Date
- Variable Reset Holiday
- Variable Reset Day

About Interactive Data

Interactive Data Corporation is a trusted leader in financial information. Thousands of financial institutions and active traders, as well as hundreds of software and service providers, subscribe to our fixed income evaluations, reference data, real-time market data, trading infrastructure services, fixed income analytics, desktop solutions and web-based solutions. Interactive Data's offerings support clients around the world with mission-critical functions, including portfolio valuation, regulatory compliance, risk management, electronic trading and wealth management. Interactive Data is headquartered in Bedford, Massachusetts and has over 2,400 employees in offices worldwide.

For more information, please visit www.interactivedata.com.

Interactive Data's Pricing and Reference Data business provides global securities pricing, evaluations and reference data designed to support financial institutions' and investment funds' pricing activities, securities operations, research and portfolio management. Interactive Data collects, edits, maintains and delivers data on more than 7 million securities, including daily evaluations for approximately 2.8 million fixed income and international equity issues. Interactive Data specializes in 'hard-to-get' information and evaluates many 'hard-to-value' instruments. Pricing, evaluations and reference data are provided in the U.S. through Interactive Data Pricing and Reference Data, Inc. and internationally through Interactive Data (Europe) Ltd. and Interactive Data (Australia) Pty Ltd.

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Interactive Data Pricing and Reference Data, Inc.

32 Crosby Drive
Bedford, MA 01730
Tel: 781 687 8800
Fax: 781 687 8289
email: info@interactivedata.com

One Beacon Street, 2nd Floor
Boston, MA 02108
Tel: 617 426 0400
Fax: 617 423 2230

100 William Street, 17th Floor
New York, New York 10038
Tel: 212 269 6300
Fax: 212 771 6987

2 North LaSalle Street, Suite 1807
Chicago, Illinois 60602
Tel: 312 641 1528
Fax: 312 641 6399

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