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ANNUAL AUDITED REPORT
FORM X-17A-5
PART III

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Washington, DC

**Information Required of Brokers and Dealers Pursuant to Section 17 of the
Securities Exchange Act of 1934 and Rule 17a-5 Thereunder**

REPORT FOR THE PERIOD BEGINNING 12/03/08 AND ENDING 12/31/09
MM/DD/YY MM/DD/YY

A. REGISTRANT IDENTIFICATION

NAME OF BROKER-DEALER: Mainline West Municipal Securities, LLC

OFFICIAL USE ONLY
FIRM I.D. NO.

ADDRESS OF PRINCIPAL PLACE OF BUSINESS: (Do not use P.O. Box No.)

700 Seventeenth Street, Suite 1500

(No. and Street)

Denver

CO

80202

(City)

(State)

(Zip Code)

NAME AND TELEPHONE NUMBER OF PERSON TO CONTACT IN REGARD TO THIS REPORT

Bradley J. Kreidle and Dennis M. Kortman

(720) 536-3380 and (720) 536-3396

(Area Code - Telephone Number)

B. ACCOUNTANT IDENTIFICATION

INDEPENDENT PUBLIC ACCOUNTANT whose opinion is contained in this Report*

Spicer Jeffries LLP

(Name - if individual, state last, first, middle name)

5251 S Quebec St Suite 200

Greenwood Village

CO

80111

(Address)

(City)

(State)

(Zip Code)

CHECK ONE:

- Certified Public Accountant
- Public Accountant
- Accountant not resident in United States or any of its possessions.

FOR OFFICIAL USE ONLY

*Claims for exemption from the requirement that the annual report be covered by the opinion of an independent public accountant must be supported by a statement of facts and circumstances relied on as the basis for the exemption. See Section 240.17a-5(e)(2)

SEC 1410 (06-02)

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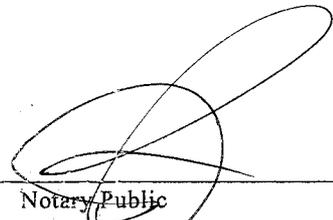
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OATH OR AFFIRMATION

I, Bradley J. Kreidle, swear (or affirm) that, to the best of my knowledge and belief the accompanying financial statement and supporting schedules pertaining to the firm of Mainline West Municipal Securities, LLC, as of December 31, 2009, are true and correct. I further swear (or affirm) that neither the company nor any partner, proprietor, principal officer or director has any proprietary interest in any account classified solely as that of a customer, except as follows:


Signature

President
Title


Notary Public

Compassion - apius 5/14/2011

This report ** contains (check all applicable boxes):

- (a) Facing Page.
- (b) Statement of Financial Condition.
- (c) Statement of Income (Loss).
- (d) Statement of Changes in Financial Condition.
- (e) Statement of Changes in Stockholders' Equity or Partners' or Sole Proprietors' Capital.
- (f) Statement of Changes in Liabilities Subordinated to Claims of Creditors.
- (g) Computation of Net Capital.
- (h) Computation for Determination of Reserve Requirements Pursuant to Rule 15c3-3.
- (i) Information Relating to the Possession or Control Requirements Under Rule 15c3-3.
- (j) A Reconciliation, including appropriate explanation of the Computation of Net Capital Under Rule 15c3-1 and the Computation for Determination of the Reserve Requirements Under Exhibit A of Rule 15c3-3.
- (k) A Reconciliation between the audited and unaudited Statements of Financial Condition with respect to methods of consolidation.
- (l) An Oath or Affirmation.
- (m) A copy of the SIPC Supplemental Report.
- (n) A report describing any material inadequacies found to exist or found to have existed since the date of the previous audit.
- (o) Independent Auditors' Report on Internal Accounting Control.

**For conditions of confidential treatment of certain portions of this filing, see section 240.17a-5(e)(3).
A statement of financial condition has been filed for public use, please give this report confidential treatment.

**MAINLINE WEST MUNICIPAL
SECURITIES LLC**

STATEMENT OF FINANCIAL CONDITION

DECEMBER 31, 2009

The report is filed in accordance with Rule 17a-5(e)(3) under the Securities Exchange Act of 1934 as a **PUBLIC DOCUMENT**.

MAINLINE WEST MUNICIPAL SECURITIES LLC

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SPICER JEFFRIES LLP

CERTIFIED PUBLIC ACCOUNTANTS

5251 SOUTH QUEBEC STREET • SUITE 200

GREENWOOD VILLAGE, COLORADO 80111

TELEPHONE: (303) 753-1959

FAX: (303) 753-0338

www.spicerjeffries.com

INDEPENDENT AUDITORS' REPORT

To the Members of
Mainline West Municipal Securities LLC

We have audited the accompanying statement of financial condition of Mainline West Municipal Securities LLC (the "Company") as of December 31, 2009, that you are filing pursuant to Rule 17a-5 under the Securities Exchange Act of 1934. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the statement of financial condition is free of material misstatement. An audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the statement of financial condition, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall statement of financial condition presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the statement of financial condition referred to above presents fairly, in all material respects, the financial position of Mainline West Municipal Securities LLC as of December 31, 2009 in conformity with accounting principles generally accepted in the United States of America.

Spicer Jeffries LLP

Greenwood Village, Colorado
February 16, 2010

MAINLINE WEST MUNICIPAL SECURITIES LLC

STATEMENT OF FINANCIAL CONDITION
DECEMBER 31, 2009

ASSETS

Cash	\$	480,331
Cash and cash equivalent at clearing broker		77,432
Securities owned, at fair value (Notes 1 and 3)		8,222,519
Deposit with clearing broker		256,482
Due from affiliates (Note 5)		88,748
Interest receivable		17,688
Other assets		<u>9,523</u>
	\$	<u>9,152,723</u>

LIABILITIES AND MEMBERS' EQUITY

LIABILITIES:

Due to clearing broker	\$	6,973,439
Due to affiliates (Note 5)		17,734
Accounts payable and accrued expenses		<u>12,693</u>

Total liabilities 7,003,866

COMMITMENTS AND CONTINGENCIES (Notes 4, 5 and 6)

MEMBERS' EQUITY (Notes 1 and 2) 2,148,857

TOTAL LIABILITIES AND MEMBERS' EQUITY **\$ 9,152,723**

MAINLINE WEST MUNICIPAL SECURITIES LLC
NOTES TO STATEMENT OF FINANCIAL CONDITION

NOTE 1 - ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Organization and business

Mainline West Municipal Securities LLC (the "Company") was formed on June 19, 2008, pursuant to the laws of the State of Delaware. The Company is a broker-dealer registered with the Securities and Exchange Commission and the Financial Industry Regulatory Authority, Inc. Their broker-dealer license became effective December 3, 2008.

The Company, under Rule 15c3-3(k)(2)(ii), is exempt from the reserve and possession or control requirements of Rule 15c3-3 of the Securities and Exchange Commission. The Company does not carry or clear customer accounts. Accordingly, all customer transactions are executed and cleared on behalf of the Company by its clearing broker on a fully disclosed basis. The Company's agreement with its clearing broker provides that as clearing broker, that firm will make and keep such records of the transactions effected and cleared in the customer accounts as are customarily made and kept by a clearing broker pursuant to the requirements of Rules 17a-3 and 17a-4 of the Securities and Exchange Act of 1934, as amended (the "Act"). It also performs all services customarily incident thereon, including the preparation and distribution of customer's confirmations and statements and maintenance margin requirements under the Act and the rules of the Self Regulatory Organizations of which the Company is a member.

Securities Valuation and Revenue Recognition

The Company records proprietary transactions, trading profit and related expenses on a trade-date basis.

The Company values its securities in accordance with Accounting Standards Codification 820 - Fair Value Measurements ("ASC 820"). Under ASC 820, fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (i.e., the "exit price") in an orderly transaction between market participants at the measurement date.

ASC 820 establishes a fair value hierarchy for inputs used in measuring fair value that maximizes the use of observable inputs and minimizes the use of unobservable inputs by requiring that the most observable inputs be used when available. Observable inputs are those that market participants would use in pricing the asset or liability based on market data obtained from sources independent of the Company. Unobservable inputs reflect the Company's assumption about the inputs market participants would use in pricing the asset or liability developed based on the best information available in the circumstances. The fair value hierarchy is categorized into three levels based on the inputs as follows:

Level 1 - Valuations based on unadjusted quoted prices in active markets for identical assets or liabilities that the Company has the ability to access. Valuation adjustments are not applied to Level 1 securities. Since valuations are based on quoted prices that are readily and regularly

MAINLINE WEST MUNICIPAL SECURITIES LLC

NOTES TO STATEMENT OF FINANCIAL CONDITION

(continued)

Securities Valuation and Revenue Recognition (continued)

available in an active market, valuation of these securities does not entail a significant degree of judgment.

Level 2 - Valuations based on quoted prices in markets that are not active or for which all significant inputs are observable, either directly or indirectly.

Level 3 - Valuations based on inputs that are unobservable and significant to the overall fair value measurement.

The availability of valuation techniques and observable inputs can vary from security to security and is affected by a wide variety of factors, including the type of security, whether the security is new and not yet established in the marketplace, and other characteristics particular to the transaction. To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Those estimated values do not necessarily represent the amounts that may be ultimately realized due to the occurrence of future circumstances that cannot be reasonably determined. Because of the inherent uncertainty of valuation, those estimated values may be materially higher or lower than the values that would have been used had a ready market for the securities existed. Accordingly, the degree of judgment exercised by the Company in determining fair value is greatest for securities categorized in Level 3. In certain cases, the inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the level in the fair value hierarchy within which the fair value measurement falls in its entirety is determined by the lowest level input that is significant to the fair value measurement.

Fair value is a market-based measure considered from the perspective of a market participant rather than an entity-specific measure. Therefore, even when market assumptions are not readily available, the Company's own assumptions are set to reflect those that market participants would use in pricing the asset or liability at the measurement date. The Company uses prices and inputs that are current as of the measurement date, including during periods of market dislocation. In periods of market dislocation, the observability of prices and inputs may be reduced for many securities. This condition could cause a security to be reclassified to a lower level within the fair value hierarchy.

The fair value of municipal bonds is estimated using recently executed transactions, market price quotations (where observable), bond spreads or credit default swap spreads. The spread data used are for the same maturity as the bond. If the spread data does not reference the issuer, then data that references a comparable issuer is used. When observable price quotations are not available, fair value is determined based on cash flow models with yield curves, bond, or single-name credit default swap spreads and recovery rates based on collateral values as key inputs. Municipal bonds are generally categorized in Level 2 of the fair value hierarchy. In instances where significant inputs are unobservable, they are categorized in Level 3 of the hierarchy.

MAINLINE WEST MUNICIPAL SECURITIES LLC

NOTES TO STATEMENT OF FINANCIAL CONDITION

(continued)

NOTE 1 - ORGANIZATION AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES
(concluded)

Securities Valuation and Revenue Recognition (concluded)

The Company allows capital contributions in the form of securities, as set forth in the Amended and Restated Operating Agreement. The contributing member shall be credited with an amount equal to the fair value of such contributed securities as of the contribution date, along with increases or decreases in value subsequent to date of contribution. Contributed securities then become the property of the Company for all purposes and all rights with respect thereto. In the period ending December 31, 2009, the Company accepted contributions in the form of municipal bonds. The contributed bonds are restricted for collateral on securities owned, as the broker stipulates minimum collateral requirements.

Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Income Taxes

The Company is recognized as a limited liability company by the Internal Revenue Service. The Company's members are liable for federal and state income taxes on its taxable income.

Cash Equivalents

For purposes of the statement of cash flows, the Company considers all money market accounts held at their clearing broker to be cash equivalents.

Profit and Loss Allocations

Profits and losses from operations are allocated to members based on the Operating Agreement of the Company. The Operating Agreement of the Company generally provides for this allocation to be made in proportion to the number of units held by the respective members at the end of each calendar month.

NOTE 2 - NET CAPITAL REQUIREMENTS

Pursuant to the net capital provisions of Rule 15c3-1 of the Securities Exchange Act of 1934, the Company is required to maintain a minimum net capital, as defined under such provisions. At December 31, 2009, the Company had net capital and net capital requirements of \$1,437,598 and \$100,000, respectively. The Company's net capital ratio (aggregate indebtedness to net capital) was 0.02 to 1. According to Rule 15c3-1, the Company's net capital ratio shall not exceed 15 to 1.

MAINLINE WEST MUNICIPAL SECURITIES LLC

NOTES TO STATEMENT OF FINANCIAL CONDITION

(continued)

NOTE 3 - FAIR VALUE MEASUREMENTS

The Company's assets recorded at fair value have been categorized based upon a fair value hierarchy in accordance with ASC 820. See Note 1 for a discussion of the Company's policies.

The following table presents information about the Company's assets measured at fair value as of December 31, 2009:

	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Balance as of December 31, 2009
Securities owned:				
Municipal bonds	\$ -	\$ 8,222,519	\$ -	\$ 8,222,519

NOTE 4 - COMMITMENTS

The Company's affiliate leases office space from unrelated parties under non-cancelable operating leases expiring through 2013. The Company is not a party to this lease except to the extent of its expense sharing agreement with the affiliate. The total rent is allocated equally between the Company and the affiliate. Future minimum rental commitments under the affiliate's lease is approximately as follows:

Year	Amount
2010	\$ 103,740
2011	105,788
2012	110,498
2013	37,504
	<u>\$ 357,530</u>

Total rental expense, including the leases referred to above, is included in occupancy costs and totaled \$56,411 for the period ended December 31, 2009.

MAINLINE WEST MUNICIPAL SECURITIES LLC

NOTES TO STATEMENT OF FINANCIAL CONDITION

(concluded)

NOTE 5 - RELATED PARTY TRANSACTIONS

The Company shares offices with an entity affiliated through common owners ("Affiliate"). The Company has an expense sharing agreement ("the Agreement") with the Affiliate. Under the Agreement the Company and the Affiliate share common expenses such as rent, compensation, equipment and other operating expenses based on efforts expended for each entity. As of December 31, 2009, the Company had a receivable from the Affiliate in the amount of \$81,897 related to net expenses paid by the Company on behalf of the Affiliate. This amount is included in "Due from affiliates" in the accompanying Statement of Financial Condition. The Company also has a payable to one of its members in the amount of \$17,734 relating primarily to interest collected on bonds contributed to capital by such member.

NOTE 6 - FINANCIAL INSTRUMENTS, OFF-BALANCE SHEET RISKS AND CONTINGENCIES

In the normal course of business, the Company's client activities through its clearing broker involve the execution, settlement, and financing of various client securities transactions. These activities may expose the Company to off-balance sheet risk. In the event the client fails to satisfy its obligations, the Company may be required to purchase or sell financial instruments at prevailing market prices in order to fulfill the client's obligations.

In the Company's trading activities, the Company has purchased securities for its own account and may incur losses if the market value of these securities declines subsequent to December 31, 2009.

In addition, the Company bears the risk of financial failure by its clearing broker. If the clearing broker should cease doing business, the Company's receivable and deposit from this clearing broker could be subject to forfeiture.

NOTE 7 - SUBSEQUENT EVENTS

The Company has performed an evaluation of subsequent events through February 16, 2010, which is the date the financial statements were available to be issued. The evaluation did not result in any subsequent events that required disclosures and/or adjustments.